

Appendix E
Analytical Reports (on CD)

BRAUN **INTERTEC**

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Ms. Kelly Nepl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

August 12, 2009

Work Order #: 0902732
(Revised)

RE: UMA SOC Ph II Env. Investigation

Dear Kelly Nepl:

Braun Intertec Corporation received samples for the project identified above on June 08, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,



Steven J. Albrecht
Associate Principal



Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117

Wisconsin DNR: 999462640

Providing engineering and environmental solutions since 1957

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMA SOC Ph II Env. Investigation
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902732
Project Mgr: Steven J. Albrecht
Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a “story” about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini “case narrative” that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each “cooler” is identified and the conditions associated with that cooler are documented. A “cooler” is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be “Total Petroleum Hydrocarbons.” Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an “M” (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word “dry” will appear next to the units. If the word “dry” does not appear then the result is “as received.”

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up as bolded. They are considered “hits.” The MDL is a statistically derived number that indicates, with high confidence, that an analyte can be detected above noise level. If a result is less than this value it is marked as “ND” for “Non-Detect.” If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a “J” flag denoting that it has been detected but that the result is an estimate. This is consistent with the *CLP Statement of Work* and the *National Functional Guidelines*.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

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Qualifiers and Abbreviations

vn	The surrogate recovery is below the laboratory generated control limits.
qo	The relative percent difference (RPD) was outside of laboratory control limits for the matrix spike (MS) and matrix spike duplicate (MSD) samples.
qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
J	Detected but below the Method Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
gw	The sample was extracted 1Day past the method specified holding time.
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound



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Case Narrative

The list 2 analyses for this work order was reextracted due to equipment failure in the extraction apparatus. Samples -01 and -02 were one day past the recommended holding when reextracted.



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SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC6-GP7 - 0-4'	0902732-01	Soil	06/03/09 14:15	06/08/09 13:52
SOC6-GP6 - 2-4'	0902732-02	Soil	06/03/09 15:15	06/08/09 13:52
SOC6-Dup - 1	0902732-03	Soil	06/04/09 00:00	06/08/09 13:52
SOC6-GP8 - 2-4'	0902732-04	Soil	06/04/09 09:10	06/08/09 13:52
SOC6-GP5 - 1-2'	0902732-05	Soil	06/04/09 09:45	06/08/09 13:52
SOC3-GP1 - 1-2'	0902732-06	Soil	06/04/09 11:45	06/08/09 13:52



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Conditions Upon Receipt

Cooler: Cooler #1

Temperature: 4.6 °C
COC Included: Yes
Custody Seals Used: No
Custody Seals Intact: NA

Received on Ice: Yes
Hand Delivered by Sampler: Yes
Sufficient Sample Provided: Yes
Headspace Present (VOC): No

Preservation Confirmed: No
Temperature Blank: No
COC Complete: Yes
COC & Labels Agree: Yes

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SOC6-GP7 - 0-4'

0902732-01 (Soil)

6/3/09 14:15

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	87	0.050	0.010	% Wt	B9F0195	6/10/09	6/10/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.067	0.017	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Alachlor	ND	0.067	0.012	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Atrazine	ND	0.067	0.017	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Chlorpyrifos	ND	0.067	0.012	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Cyanazine	ND	0.067	0.013	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Deisopropylatrazine	ND	0.067	0.013	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Desethylatrazine	ND	0.067	0.019	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Dimethenamid	ND	0.067	0.010	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
EPTC	ND	0.067	0.010	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Ethalfuralin	ND	0.067	0.024	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Fonofos	ND	0.067	0.0067	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Metolachlor	ND	0.067	0.0051	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	qn, qo
Metribuzin	ND	0.067	0.015	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Pendimethalin	ND	0.067	0.027	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Phorate	ND	0.067	0.010	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Prometon	ND	0.067	0.010	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Propachlor	ND	0.067	0.015	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Propazine	ND	0.067	0.012	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Simazine	ND	0.067	0.015	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Terbufos	ND	0.067	0.015	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Triallate	ND	0.067	0.0084	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Trifluralin	ND	0.067	0.024	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Surrogate: Atrazine-d5	90.5 %	Limits: 70-120%			B9F0265	6/15/09	6/17/09	EPA 8270C	
Surrogate: Diazinon-d10	91.9 %	Limits: 50-120%			B9F0265	6/15/09	6/17/09	EPA 8270C	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.056	0.010	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
2,4,5-T.P.	ND	0.056	0.0079	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
2,4-D	ND	0.056	0.013	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
2,4-D.B.	ND	0.056	0.012	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	

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Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC6-GP7 - 0-4'

0902732-01 (Soil)

6/3/09 14:15

Acid Extractable Pesticides (MDA List 2)

gw

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Bentazon	ND	0.056	0.010	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Dicamba	ND	0.056	0.0090	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Dinoseb	ND	0.056	0.0056	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
M.C.P.A.	ND	0.056	0.016	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Pentachlorophenol	ND	0.056	0.0079	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Picloram	ND	0.056	0.012	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	qn
Triclopyr	ND	0.056	0.0067	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Surrogate: D.C.A.A.	75.2 %	Limits: 50-125%			B9F0390	6/18/09	6/23/09	EPA 8270C	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMA SOC Ph II Env. Investigation Client Contact: Ms. Kelly Neppel PO Number:	Work Order #: 0902732 Project Mgr: Steven J. Albrecht Account ID: B01058
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SOC6-GP6 - 2-4'

0902732-02 (Soil)

6/3/09 15:15

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	87	0.050	0.010	% Wt	B9F0195	6/10/09	6/10/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.066	0.017	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Alachlor	ND	0.066	0.012	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Atrazine	ND	0.066	0.017	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Chlorpyrifos	ND	0.066	0.012	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Cyanazine	ND	0.066	0.013	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Deisopropylatrazine	ND	0.066	0.013	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Desethylatrazine	ND	0.066	0.018	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Dimethenamid	ND	0.066	0.0099	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
EPTC	ND	0.066	0.0099	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Ethalfuralin	ND	0.066	0.023	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Fonofos	ND	0.066	0.0066	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Metolachlor	ND	0.066	0.0050	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	qn, qo
Metribuzin	ND	0.066	0.015	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Pendimethalin	ND	0.066	0.026	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Phorate	ND	0.066	0.0099	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Prometon	ND	0.066	0.0099	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Propachlor	ND	0.066	0.015	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Propazine	ND	0.066	0.012	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Simazine	ND	0.066	0.015	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Terbufos	ND	0.066	0.015	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Triallate	ND	0.066	0.0083	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Trifluralin	ND	0.066	0.023	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Surrogate: Atrazine-d5	89.6 %	Limits: 70-120%			B9F0265	6/15/09	6/17/09	EPA 8270C	
Surrogate: Diazinon-d10	87.2 %	Limits: 50-120%			B9F0265	6/15/09	6/17/09	EPA 8270C	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.057	0.010	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
2,4,5-T.P.	ND	0.057	0.0080	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
2,4-D	ND	0.057	0.014	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
2,4-D.B.	ND	0.057	0.013	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMA SOC Ph II Env. Investigation Client Contact: Ms. Kelly Neopl PO Number:	Work Order #: 0902732 Project Mgr: Steven J. Albrecht Account ID: B01058
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SOC6-GP6 - 2-4'
0902732-02 (Soil)
6/3/09 15:15

Acid Extractable Pesticides (MDA List 2)

gw

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Bentazon	ND	0.057	0.010	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Dicamba	ND	0.057	0.0092	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Dinoseb	ND	0.057	0.0057	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
M.C.P.A.	ND	0.057	0.016	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Pentachlorophenol	ND	0.057	0.0080	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Picloram	ND	0.057	0.013	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	qn
Triclopyr	ND	0.057	0.0069	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Surrogate: D.C.A.A.	80.4 %	Limits: 50-125%			B9F0390	6/18/09	6/23/09	EPA 8270C	



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SOC6-Dup - 1
0902732-03 (Soil)
6/4/09 0:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	77	0.050	0.010	% Wt	B9F0195	6/10/09	6/10/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.077	0.019	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Alachlor	ND	0.077	0.013	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Atrazine	ND	0.077	0.019	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Chlorpyrifos	ND	0.077	0.013	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Cyanazine	ND	0.077	0.015	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Deisopropylatrazine	ND	0.077	0.015	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Desethylatrazine	ND	0.077	0.021	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Dimethenamid	ND	0.077	0.012	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
EPTC	ND	0.077	0.012	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Ethalfuralin	ND	0.077	0.027	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Fonofos	ND	0.077	0.0077	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Metolachlor	0.0077 J	0.077	0.0058	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	qn, qo
Metribuzin	ND	0.077	0.017	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Pendimethalin	ND	0.077	0.031	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Phorate	ND	0.077	0.012	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Prometon	ND	0.077	0.012	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Propachlor	ND	0.077	0.017	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Propazine	ND	0.077	0.013	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Simazine	ND	0.077	0.017	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Terbufos	ND	0.077	0.017	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Triallate	ND	0.077	0.0096	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Trifluralin	ND	0.077	0.027	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Surrogate: Atrazine-d5	75.9 %	Limits: 70-120%			B9F0265	6/15/09	6/17/09	EPA 8270C	
Surrogate: Diazinon-d10	67.7 %	Limits: 50-120%			B9F0265	6/15/09	6/17/09	EPA 8270C	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.068	0.012	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
2,4,5-T.P.	ND	0.068	0.0095	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
2,4-D	ND	0.068	0.016	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
2,4-D.B.	ND	0.068	0.015	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMA SOC Ph II Env. Investigation Client Contact: Ms. Kelly Nepl PO Number:	Work Order #: 0902732 Project Mgr: Steven J. Albrecht Account ID: B01058
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SOC6-Dup - 1
0902732-03 (Soil)
6/4/09 0:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Bentazon	ND	0.068	0.012	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Dicamba	ND	0.068	0.011	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Dinoseb	ND	0.068	0.0068	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
M.C.P.A.	ND	0.068	0.019	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Pentachlorophenol	ND	0.068	0.0095	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Picloram	ND	0.068	0.015	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	qn
Triclopyr	ND	0.068	0.0082	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Surrogate: D.C.A.A.	79.2 %	Limits: 50-125%			B9F0390	6/18/09	6/23/09	EPA 8270C	

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Client Ref: UMA SOC Ph II Env. Investigation
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902732
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC6-GP8 - 2-4'

0902732-04 (Soil)

6/4/09 9:10

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	77	0.050	0.010	% Wt	B9F0195	6/10/09	6/10/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.076	0.019	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Alachlor	ND	0.076	0.013	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Atrazine	ND	0.076	0.019	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Chlorpyrifos	ND	0.076	0.013	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Cyanazine	ND	0.076	0.015	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Deisopropylatrazine	ND	0.076	0.015	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Desethylatrazine	ND	0.076	0.021	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Dimethenamid	ND	0.076	0.011	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
EPTC	ND	0.076	0.011	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Ethalfuralin	ND	0.076	0.027	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Fonofos	ND	0.076	0.0076	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Metolachlor	ND	0.076	0.0057	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	qn, qo
Metribuzin	ND	0.076	0.017	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Pendimethalin	ND	0.076	0.030	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Phorate	ND	0.076	0.011	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Prometon	ND	0.076	0.011	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Propachlor	ND	0.076	0.017	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Propazine	ND	0.076	0.013	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Simazine	ND	0.076	0.017	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Terbufos	ND	0.076	0.017	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Triallate	ND	0.076	0.0095	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Trifluralin	ND	0.076	0.027	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Surrogate: Atrazine-d5	85.1 %	Limits: 70-120%			B9F0265	6/15/09	6/17/09	EPA 8270C	
Surrogate: Diazinon-d10	71.6 %	Limits: 50-120%			B9F0265	6/15/09	6/17/09	EPA 8270C	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.076	0.014	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
2,4,5-T.P.	ND	0.076	0.011	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
2,4-D	ND	0.076	0.018	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
2,4-D.B.	ND	0.076	0.017	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMA SOC Ph II Env. Investigation Client Contact: Ms. Kelly Nepl PO Number:	Work Order #: 0902732 Project Mgr: Steven J. Albrecht Account ID: B01058
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SOC6-GP8 - 2-4'

0902732-04 (Soil)

6/4/09 9:10

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Bentazon	ND	0.076	0.014	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Dicamba	ND	0.076	0.012	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Dinoseb	ND	0.076	0.0076	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
M.C.P.A.	ND	0.076	0.021	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Pentachlorophenol	ND	0.076	0.011	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Picloram	ND	0.076	0.017	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	qn
Triclopyr	ND	0.076	0.0091	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Surrogate: D.C.A.A.	72.6 %	Limits: 50-125%			B9F0390	6/18/09	6/23/09	EPA 8270C	

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Minneapolis, MN 55435-4803

Client Ref: UMA SOC Ph II Env. Investigation
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902732
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC6-GP5 - 1-2'

0902732-05 (Soil)

6/4/09 9:45

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	82	0.050	0.010	% Wt	B9F0195	6/10/09	6/10/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.072	0.018	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Alachlor	0.27	0.072	0.013	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Atrazine	ND	0.072	0.018	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Chlorpyrifos	ND	0.072	0.013	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Cyanazine	ND	0.072	0.014	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Deisopropylatrazine	ND	0.072	0.014	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Desethylatrazine	ND	0.072	0.020	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Dimethenamid	ND	0.072	0.011	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
EPTC	ND	0.072	0.011	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Ethalfuralin	ND	0.072	0.025	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Fonofos	ND	0.072	0.0072	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Metolachlor	0.50	0.072	0.0054	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	qn, qo
Metribuzin	ND	0.072	0.016	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Pendimethalin	ND	0.072	0.029	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Phorate	ND	0.072	0.011	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Prometon	ND	0.072	0.011	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Propachlor	ND	0.072	0.016	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Propazine	ND	0.072	0.013	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Simazine	ND	0.072	0.016	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Terbufos	ND	0.072	0.016	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Triallate	ND	0.072	0.0090	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Trifluralin	ND	0.072	0.025	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Surrogate: Atrazine-d5	84.5 %	Limits: 70-120%			B9F0265	6/15/09	6/17/09	EPA 8270C	
Surrogate: Diazinon-d10	83.3 %	Limits: 50-120%			B9F0265	6/15/09	6/17/09	EPA 8270C	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.061	0.011	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
2,4,5-T.P.	ND	0.061	0.0086	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
2,4-D	ND	0.061	0.015	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
2,4-D.B.	ND	0.061	0.013	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	

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SOC6-GP5 - 1-2'

0902732-05 (Soil)

6/4/09 9:45

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Bentazon	ND	0.061	0.011	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Dicamba	ND	0.061	0.0098	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Dinoseb	ND	0.061	0.0061	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
M.C.P.A.	ND	0.061	0.017	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Pentachlorophenol	ND	0.061	0.0086	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Picloram	ND	0.061	0.013	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	qn
Triclopyr	ND	0.061	0.0073	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Surrogate: D.C.A.A.	78.4 %	Limits: 50-125%			B9F0390	6/18/09	6/23/09	EPA 8270C	

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Client Ref: UMA SOC Ph II Env. Investigation
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0902732
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC3-GP1 - 1-2'

0902732-06 (Soil)

6/4/09 11:45

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	82	0.050	0.010	% Wt	B9F0195	6/10/09	6/10/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.073	0.018	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Alachlor	ND	0.073	0.013	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Atrazine	ND	0.073	0.018	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Chlorpyrifos	ND	0.073	0.013	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Cyanazine	ND	0.073	0.015	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Deisopropylatrazine	ND	0.073	0.015	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Desethylatrazine	ND	0.073	0.020	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Dimethenamid	ND	0.073	0.011	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
EPTC	ND	0.073	0.011	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Ethalfuralin	ND	0.073	0.025	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Fonofos	ND	0.073	0.0073	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Metolachlor	ND	0.073	0.0055	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	qn, qo
Metribuzin	ND	0.073	0.016	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Pendimethalin	ND	0.073	0.029	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Phorate	ND	0.073	0.011	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Prometon	ND	0.073	0.011	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Propachlor	ND	0.073	0.016	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Propazine	ND	0.073	0.013	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Simazine	ND	0.073	0.016	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Terbufos	ND	0.073	0.016	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Triallate	ND	0.073	0.0091	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Trifluralin	ND	0.073	0.025	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Surrogate: Atrazine-d5	87.2 %	Limits: 70-120%			B9F0265	6/15/09	6/17/09	EPA 8270C	
Surrogate: Diazinon-d10	88.0 %	Limits: 50-120%			B9F0265	6/15/09	6/17/09	EPA 8270C	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.082	0.015	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
2,4,5-T.P.	ND	0.082	0.012	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
2,4-D	ND	0.082	0.020	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
2,4-D.B.	ND	0.082	0.018	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	

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SOC3-GP1 - 1-2'

0902732-06 (Soil)

6/4/09 11:45

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Bentazon	ND	0.082	0.015	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Dicamba	ND	0.082	0.013	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Dinoseb	ND	0.082	0.0082	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
M.C.P.A.	ND	0.082	0.023	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Pentachlorophenol	ND	0.082	0.012	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Picloram	ND	0.082	0.018	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	qn
Triclopyr	ND	0.082	0.0099	mg/kg dry	B9F0390	6/18/09	6/23/09	EPA 8270C	
Surrogate: D.C.A.A.	71.8 %	Limits: 50-125%			B9F0390	6/18/09	6/23/09	EPA 8270C	



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Classical Chemistry Parameters - Quality Control

Batch B9F0195 - Default Prep GenChem

Method Blank (B9F0195-BLK1)

Prepared & Analyzed: 06/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	ND	0.050	0.010	% Wt	NA	NA	NA	NA	NA	NA	

Duplicate (B9F0195-DUP1)

Source: 0902720-25

Prepared & Analyzed: 06/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	94.9	0.050	0.010	% Wt	NA	94.6	NA	NA	0.312	20	

Standard Reference Material (B9F0195-SRM1)

Prepared & Analyzed: 06/10/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	87.4			% Wt	91.3	NA	95.7	90-110	NA	NA	

Barr Engineering Company
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Minneapolis, MN 55435-4803

Client Ref: UMA SOC Ph II Env. Investigation
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0902732
Project Mgr: Steven J. Albrecht
Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0265 - EPA 3545

Method Blank (B9F0265-BLK1)

Prepared: 06/15/09 Analyzed: 06/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	ND	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Alachlor	ND	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Atrazine	ND	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	ND	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Cyanazine	ND	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	ND	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Desethylatrazine	ND	0.040	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Dimethenamid	ND	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
EPTC	ND	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Ethalfuralin	ND	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Fonofos	ND	0.040	0.0040	mg/kg	NA	NA	NA	NA	NA	NA	
Metolachlor	ND	0.040	0.0030	mg/kg	NA	NA	NA	NA	NA	NA	
Metribuzin	ND	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Pendimethalin	ND	0.040	0.016	mg/kg	NA	NA	NA	NA	NA	NA	
Phorate	ND	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Prometon	ND	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Propachlor	ND	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Propazine	ND	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Simazine	ND	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Terbufos	ND	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Triallate	ND	0.040	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
Trifluralin	ND	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	0.127			mg/kg	0.333	NA	38.2	70-120			vn
Surrogate: Diazinon-d10	0.129			mg/kg	0.333	NA	38.8	50-120			vn

Laboratory Control Sample (B9F0265-BS1)

Prepared: 06/15/09 Analyzed: 06/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.320	0.040	0.010	mg/kg	0.330	NA	96.8	70-120	NA	NA	
Alachlor	0.325	0.040	0.0070	mg/kg	0.330	NA	98.3	75-120	NA	NA	
Atrazine	0.308	0.040	0.010	mg/kg	0.330	NA	93.1	70-120	NA	NA	
Chlorpyrifos	0.315	0.040	0.0070	mg/kg	0.330	NA	95.3	70-120	NA	NA	
Cyanazine	0.334	0.040	0.0080	mg/kg	0.330	NA	101	70-120	NA	NA	
Deisopropylatrazine	0.299	0.040	0.0080	mg/kg	0.330	NA	90.6	70-120	NA	NA	
Desethylatrazine	0.337	0.040	0.011	mg/kg	0.330	NA	102	70-120	NA	NA	
Dimethenamid	0.317	0.040	0.0060	mg/kg	0.330	NA	96.1	70-120	NA	NA	
EPTC	0.235	0.040	0.0060	mg/kg	0.330	NA	71.0	60-115	NA	NA	
Ethalfuralin	0.326	0.040	0.014	mg/kg	0.330	NA	98.7	70-120	NA	NA	
Fonofos	0.308	0.040	0.0040	mg/kg	0.330	NA	93.1	70-120	NA	NA	
Metolachlor	0.321	0.040	0.0030	mg/kg	0.330	NA	97.3	70-120	NA	NA	
Metribuzin	0.329	0.040	0.0090	mg/kg	0.330	NA	99.6	75-120	NA	NA	
Pendimethalin	0.312	0.040	0.016	mg/kg	0.330	NA	94.5	75-120	NA	NA	
Phorate	0.287	0.040	0.0060	mg/kg	0.330	NA	86.9	70-115	NA	NA	
Prometon	0.333	0.040	0.0060	mg/kg	0.330	NA	101	75-120	NA	NA	
Propachlor	0.317	0.040	0.0090	mg/kg	0.330	NA	95.9	75-115	NA	NA	



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Client Ref: UMA SOC Ph II Env. Investigation
 Client Contact: Ms. Kelly Neppel
 PO Number:

Work Order #: 0902732
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0265 - EPA 3545

Laboratory Control Sample (B9F0265-BS1)

Prepared: 06/15/09 Analyzed: 06/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Propazine	0.303	0.040	0.0070	mg/kg	0.330	NA	91.7	70-120	NA	NA	
Simazine	0.267	0.040	0.0090	mg/kg	0.330	NA	80.8	50-110	NA	NA	
Terbufos	0.297	0.040	0.0090	mg/kg	0.330	NA	89.9	70-115	NA	NA	
Triallate	0.301	0.040	0.0050	mg/kg	0.330	NA	91.2	70-120	NA	NA	
Trifluralin	0.304	0.040	0.014	mg/kg	0.330	NA	92.1	80-115	NA	NA	
Surrogate: Atrazine-d5	0.289			mg/kg	0.330	NA	87.5	70-120			
Surrogate: Diazinon-d10	0.292			mg/kg	0.330	NA	88.3	50-120			

Laboratory Control Sample Duplicate (B9F0265-BSD1)

Prepared: 06/15/09 Analyzed: 06/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.302	0.040	0.010	mg/kg	0.329	NA	91.7	70-120	5.67	20	
Alachlor	0.273	0.040	0.0070	mg/kg	0.329	NA	82.8	75-120	17.4	20	
Atrazine	0.298	0.040	0.010	mg/kg	0.329	NA	90.4	70-120	3.21	20	
Chlorpyrifos	0.302	0.040	0.0070	mg/kg	0.329	NA	91.6	70-120	4.22	20	
Cyanazine	0.329	0.040	0.0080	mg/kg	0.329	NA	100	70-120	1.26	20	
Deisopropylatrazine	0.286	0.040	0.0080	mg/kg	0.329	NA	86.7	70-120	4.66	20	
Desethylatrazine	0.325	0.040	0.011	mg/kg	0.329	NA	98.5	70-120	3.85	20	
Dimethenamid	0.298	0.040	0.0060	mg/kg	0.329	NA	90.5	70-120	6.27	20	
EPTC	0.218	0.040	0.0060	mg/kg	0.329	NA	66.3	60-115	7.11	20	
Ethalfuralin	0.336	0.040	0.014	mg/kg	0.329	NA	102	70-120	2.93	20	
Fonofos	0.301	0.040	0.0040	mg/kg	0.329	NA	91.4	70-120	2.11	20	
Metolachlor	0.301	0.040	0.0030	mg/kg	0.329	NA	91.5	70-120	6.41	20	
Metribuzin	0.322	0.040	0.0090	mg/kg	0.329	NA	97.6	75-120	2.29	20	
Pendimethalin	0.322	0.040	0.016	mg/kg	0.329	NA	97.6	75-120	2.96	20	
Phorate	0.282	0.040	0.0060	mg/kg	0.329	NA	85.5	70-115	1.89	20	
Prometon	0.322	0.040	0.0060	mg/kg	0.329	NA	97.7	75-120	3.29	20	
Propachlor	0.282	0.040	0.0090	mg/kg	0.329	NA	85.7	75-115	11.5	20	
Propazine	0.294	0.040	0.0070	mg/kg	0.329	NA	89.2	70-120	3.03	20	
Simazine	0.255	0.040	0.0090	mg/kg	0.329	NA	77.5	50-110	4.43	20	
Terbufos	0.290	0.040	0.0090	mg/kg	0.329	NA	88.1	70-115	2.29	20	
Triallate	0.293	0.040	0.0050	mg/kg	0.329	NA	88.9	70-120	2.82	20	
Trifluralin	0.309	0.040	0.014	mg/kg	0.329	NA	93.7	80-115	1.46	20	
Surrogate: Atrazine-d5	0.280			mg/kg	0.329	NA	84.9	70-120			
Surrogate: Diazinon-d10	0.274			mg/kg	0.329	NA	83.1	50-120			

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Client Ref: UMA SOC Ph II Env. Investigation
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902732
Project Mgr: Steven J. Albrecht
Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0265 - EPA 3545

Matrix Spike (B9F0265-MS1)

Source: 0902732-06

Prepared: 06/15/09 Analyzed: 06/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.498	0.073	0.018	mg/kg dry	0.607	ND	82.0	50-110	NA	NA	
Alachlor	0.494	0.073	0.013	mg/kg dry	0.607	ND	81.4	40-110	NA	NA	
Atrazine	0.522	0.073	0.018	mg/kg dry	0.607	ND	86.0	45-115	NA	NA	
Chlorpyrifos	0.416	0.073	0.013	mg/kg dry	0.607	ND	68.5	30-125	NA	NA	
Cyanazine	0.580	0.073	0.015	mg/kg dry	0.607	ND	95.6	30-125	NA	NA	
Deisopropylatrazine	0.512	0.073	0.015	mg/kg dry	0.607	ND	84.3	30-125	NA	NA	
Desethylatrazine	0.573	0.073	0.020	mg/kg dry	0.607	ND	94.4	30-125	NA	NA	
Dimethenamid	0.521	0.073	0.011	mg/kg dry	0.607	ND	85.8	55-110	NA	NA	
EPTC	0.428	0.073	0.011	mg/kg dry	0.607	ND	70.5	40-105	NA	NA	
Ethalfuralin	0.415	0.073	0.025	mg/kg dry	0.607	ND	68.4	30-125	NA	NA	
Fonofos	0.448	0.073	0.0073	mg/kg dry	0.607	ND	73.9	30-120	NA	NA	
Metolachlor	0.875	0.073	0.0055	mg/kg dry	0.607	ND	144	40-115	NA	NA	
Metribuzin	0.544	0.073	0.016	mg/kg dry	0.607	ND	89.7	40-115	NA	NA	
Pendimethalin	0.413	0.073	0.029	mg/kg dry	0.607	ND	68.0	30-115	NA	NA	
Phorate	0.403	0.073	0.011	mg/kg dry	0.607	ND	66.4	35-110	NA	NA	
Prometon	0.535	0.073	0.011	mg/kg dry	0.607	ND	88.1	50-115	NA	NA	
Propachlor	0.521	0.073	0.016	mg/kg dry	0.607	ND	85.9	55-110	NA	NA	
Propazine	0.498	0.073	0.013	mg/kg dry	0.607	ND	82.1	30-125	NA	NA	
Simazine	0.452	0.073	0.016	mg/kg dry	0.607	ND	74.4	40-115	NA	NA	
Terbufos	0.397	0.073	0.016	mg/kg dry	0.607	ND	65.4	30-125	NA	NA	
Triallate	0.392	0.073	0.0091	mg/kg dry	0.607	ND	64.6	30-110	NA	NA	
Trifluralin	0.410	0.073	0.025	mg/kg dry	0.607	ND	67.5	30-120	NA	NA	
Surrogate: Atrazine-d5	0.516			mg/kg dry	0.607	NA	85.0	70-120			
Surrogate: Diazinon-d10	0.495			mg/kg dry	0.607	NA	81.6	50-120			

Matrix Spike Duplicate (B9F0265-MSD1)

Source: 0902732-06

Prepared: 06/15/09 Analyzed: 06/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.513	0.072	0.018	mg/kg dry	0.602	ND	85.3	50-110	3.10	25	
Alachlor	0.534	0.072	0.013	mg/kg dry	0.602	ND	88.8	40-110	7.85	25	
Atrazine	0.489	0.072	0.018	mg/kg dry	0.602	ND	81.3	45-115	6.46	25	
Chlorpyrifos	0.487	0.072	0.013	mg/kg dry	0.602	ND	80.9	30-125	15.8	35	
Cyanazine	0.566	0.072	0.014	mg/kg dry	0.602	ND	94.0	30-125	2.53	25	
Deisopropylatrazine	0.499	0.072	0.014	mg/kg dry	0.602	ND	82.9	30-125	2.52	25	
Desethylatrazine	0.559	0.072	0.020	mg/kg dry	0.602	ND	92.9	30-125	2.45	25	
Dimethenamid	0.519	0.072	0.011	mg/kg dry	0.602	ND	86.2	55-110	0.379	25	
EPTC	0.422	0.072	0.011	mg/kg dry	0.602	ND	70.2	40-105	1.27	25	
Ethalfuralin	0.523	0.072	0.025	mg/kg dry	0.602	ND	86.9	30-125	23.0	35	
Fonofos	0.494	0.072	0.0072	mg/kg dry	0.602	ND	82.1	30-120	9.67	35	
Metolachlor	0.516	0.072	0.0054	mg/kg dry	0.602	ND	85.7	40-115	51.7	25	
Metribuzin	0.517	0.072	0.016	mg/kg dry	0.602	ND	85.9	40-115	5.17	25	
Pendimethalin	0.499	0.072	0.029	mg/kg dry	0.602	ND	82.9	30-115	18.9	35	
Phorate	0.459	0.072	0.011	mg/kg dry	0.602	ND	76.3	35-110	13.0	35	
Prometon	0.527	0.072	0.011	mg/kg dry	0.602	ND	87.5	50-115	1.53	25	
Propachlor	0.522	0.072	0.016	mg/kg dry	0.602	ND	86.7	55-110	0.0831	25	



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Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMA SOC Ph II Env. Investigation Client Contact: Ms. Kelly Nepl PO Number:	Work Order #: 0902732 Project Mgr: Steven J. Albrecht Account ID: B01058
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Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0265 - EPA 3545

Matrix Spike Duplicate (B9F0265-MSD1)

Source: 0902732-06

Prepared: 06/15/09 Analyzed: 06/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Propazine	0.504	0.072	0.013	mg/kg dry	0.602	ND	83.7	30-125	1.09	25	
Simazine	0.450	0.072	0.016	mg/kg dry	0.602	ND	74.7	40-115	0.441	25	
Terbufos	0.474	0.072	0.016	mg/kg dry	0.602	ND	78.7	30-125	17.6	35	
Triallate	0.460	0.072	0.0090	mg/kg dry	0.602	ND	76.4	30-110	15.9	35	
Trifluralin	0.483	0.072	0.025	mg/kg dry	0.602	ND	80.3	30-120	16.5	35	
Surrogate: Atrazine-d5	0.493			mg/kg dry	0.602	NA	82.0	70-120			
Surrogate: Diazinon-d10	0.504			mg/kg dry	0.602	NA	83.7	50-120			

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Client Contact: Ms. Kelly Neppel
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Project Mgr: Steven J. Albrecht
Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0247 - EPA 3545

Method Blank (B9F0247-BLK1)

Prepared: 06/12/09 Analyzed: 06/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	ND	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	ND	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D	ND	0.050	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D.B.	ND	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Bentazon	ND	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Dicamba	ND	0.050	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Dinoseb	ND	0.10	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
M.C.P.A.	ND	0.050	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	ND	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Picloram	ND	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Triclopyr	ND	0.050	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	0.113			mg/kg	0.165	NA	68.2	50-125			

Laboratory Control Sample (B9F0247-BS1)

Prepared: 06/12/09 Analyzed: 06/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.113	0.050	0.0090	mg/kg	0.167	NA	67.8	60-125	NA	NA	
2,4,5-T.P.	0.117	0.050	0.0070	mg/kg	0.167	NA	70.2	65-125	NA	NA	
2,4-D	0.116	0.050	0.012	mg/kg	0.167	NA	69.4	60-125	NA	NA	
2,4-D.B.	0.126	0.050	0.011	mg/kg	0.167	NA	75.4	70-130	NA	NA	
Bentazon	0.130	0.050	0.0090	mg/kg	0.167	NA	78.0	65-125	NA	NA	
Dicamba	0.111	0.050	0.0080	mg/kg	0.167	NA	66.6	60-120	NA	NA	
Dinoseb	0.0976 J	0.10	0.0050	mg/kg	0.167	NA	58.6	30-120	NA	NA	
M.C.P.A.	0.111	0.050	0.014	mg/kg	0.167	NA	66.6	60-115	NA	NA	
Pentachlorophenol	0.123	0.050	0.0070	mg/kg	0.167	NA	73.8	50-120	NA	NA	
Picloram	0.0576	0.050	0.011	mg/kg	0.167	NA	34.6	30-100	NA	NA	
Triclopyr	0.115	0.050	0.0060	mg/kg	0.167	NA	69.2	65-120	NA	NA	
Surrogate: D.C.A.A.	0.124			mg/kg	0.167	NA	74.4	50-125			

Laboratory Control Sample Duplicate (B9F0247-BSD1)

Prepared: 06/12/09 Analyzed: 06/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.129	0.050	0.0090	mg/kg	0.166	NA	77.4	60-125	13.0	25	
2,4,5-T.P.	0.125	0.050	0.0070	mg/kg	0.166	NA	75.4	65-125	6.91	25	
2,4-D	0.131	0.050	0.012	mg/kg	0.166	NA	79.0	60-125	12.7	25	
2,4-D.B.	0.134	0.050	0.011	mg/kg	0.166	NA	80.4	70-130	6.19	25	
Bentazon	0.139	0.050	0.0090	mg/kg	0.166	NA	83.8	65-125	6.94	25	
Dicamba	0.124	0.050	0.0080	mg/kg	0.166	NA	74.4	60-120	10.8	25	
Dinoseb	0.0953 J	0.10	0.0050	mg/kg	0.166	NA	57.4	30-120	2.30	25	
M.C.P.A.	0.123	0.050	0.014	mg/kg	0.166	NA	73.8	60-115	10.0	25	
Pentachlorophenol	0.122	0.050	0.0070	mg/kg	0.166	NA	73.2	50-120	1.05	25	
Picloram	0.101	0.050	0.011	mg/kg	0.166	NA	61.0	30-100	55.0	25	
Triclopyr	0.131	0.050	0.0060	mg/kg	0.166	NA	78.6	65-120	12.5	25	
Surrogate: D.C.A.A.	0.127			mg/kg	0.166	NA	76.6	50-125			



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Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMA SOC Ph II Env. Investigation Client Contact: Ms. Kelly Neppel PO Number:	Work Order #: 0902732 Project Mgr: Steven J. Albrecht Account ID: B01058
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Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0247 - EPA 3545

Laboratory Control Sample Duplicate (B9F0247-BSD1)

Prepared: 06/12/09 Analyzed: 06/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Matrix Spike (B9F0247-MS1)

Source: 0902732-06

Prepared: 06/12/09 Analyzed: 06/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.136	0.061	0.011	mg/kg dry	0.203	ND	67.2	30-130	NA	NA	
2,4,5-T.P.	0.154	0.061	0.0085	mg/kg dry	0.203	ND	76.0	40-130	NA	NA	
2,4-D	0.136	0.061	0.015	mg/kg dry	0.203	ND	67.2	30-125	NA	NA	
2,4-D.B.	0.161	0.061	0.013	mg/kg dry	0.203	ND	79.4	70-130	NA	NA	
Bentazon	0.167	0.061	0.011	mg/kg dry	0.203	ND	82.6	65-125	NA	NA	
Dicamba	0.127	0.061	0.0097	mg/kg dry	0.203	ND	62.8	30-120	NA	NA	
Dinoseb	0.121	0.12	0.0061	mg/kg dry	0.203	ND	59.6	30-120	NA	NA	
M.C.P.A.	0.147	0.061	0.017	mg/kg dry	0.203	ND	72.6	30-120	NA	NA	
Pentachlorophenol	0.155	0.061	0.0085	mg/kg dry	0.203	ND	76.4	50-120	NA	NA	
Picloram	ND	0.061	0.013	mg/kg dry	0.203	ND	NA	30-100	NA	NA	
Triclopyr	0.152	0.061	0.0073	mg/kg dry	0.203	ND	75.0	30-120	NA	NA	

Surrogate: D.C.A.A.

0.157 mg/kg dry 0.203 NA 77.2 50-125

Matrix Spike Duplicate (B9F0247-MSD1)

Source: 0902732-06

Prepared: 06/12/09 Analyzed: 06/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.135	0.061	0.011	mg/kg dry	0.201	ND	67.0	30-130	1.06	25	
2,4,5-T.P.	0.153	0.061	0.0085	mg/kg dry	0.201	ND	76.0	40-130	0.763	25	
2,4-D	0.136	0.061	0.015	mg/kg dry	0.201	ND	67.6	30-125	0.170	25	
2,4-D.B.	0.166	0.061	0.013	mg/kg dry	0.201	ND	82.6	70-130	3.19	25	
Bentazon	0.176	0.061	0.011	mg/kg dry	0.201	ND	87.6	65-125	5.11	25	
Dicamba	0.123	0.061	0.0097	mg/kg dry	0.201	ND	61.2	30-120	3.34	25	
Dinoseb	0.135	0.12	0.0061	mg/kg dry	0.201	ND	67.2	30-120	11.2	25	
M.C.P.A.	0.144	0.061	0.017	mg/kg dry	0.201	ND	71.8	30-120	1.87	25	
Pentachlorophenol	0.153	0.061	0.0085	mg/kg dry	0.201	ND	76.0	50-120	1.29	25	
Picloram	ND	0.061	0.013	mg/kg dry	0.201	ND	NA	30-100	NA	25	
Triclopyr	0.149	0.061	0.0073	mg/kg dry	0.201	ND	74.2	30-120	1.84	25	

Surrogate: D.C.A.A.

0.163 mg/kg dry 0.201 NA 80.8 50-125

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMA SOC Ph II Env. Investigation
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0902732
Project Mgr: Steven J. Albrecht
Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0390 - EPA 3545

Method Blank (B9F0390-BLK1)

Prepared: 06/18/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	ND	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	ND	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D	ND	0.050	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D.B.	ND	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Bentazon	ND	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Dicamba	ND	0.050	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Dinoseb	ND	0.050	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
M.C.P.A.	ND	0.050	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	ND	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Picloram	ND	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Triclopyr	ND	0.050	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	0.124			mg/kg	0.164	NA	75.8	50-125			

Laboratory Control Sample (B9F0390-BS1)

Prepared: 06/18/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.112	0.050	0.0090	mg/kg	0.165	NA	67.6	60-125	NA	NA	
2,4,5-T.P.	0.118	0.050	0.0070	mg/kg	0.165	NA	71.2	65-125	NA	NA	
2,4-D	0.111	0.050	0.012	mg/kg	0.165	NA	67.4	60-125	NA	NA	
2,4-D.B.	0.129	0.050	0.011	mg/kg	0.165	NA	78.0	70-130	NA	NA	
Bentazon	0.139	0.050	0.0090	mg/kg	0.165	NA	84.2	65-125	NA	NA	
Dicamba	0.107	0.050	0.0080	mg/kg	0.165	NA	65.0	60-120	NA	NA	
Dinoseb	0.0847	0.050	0.0050	mg/kg	0.165	NA	51.2	30-120	NA	NA	
M.C.P.A.	0.110	0.050	0.014	mg/kg	0.165	NA	66.6	60-115	NA	NA	
Pentachlorophenol	0.110	0.050	0.0070	mg/kg	0.165	NA	66.8	50-120	NA	NA	
Picloram	0.0843	0.050	0.011	mg/kg	0.165	NA	51.0	30-100	NA	NA	
Triclopyr	0.113	0.050	0.0060	mg/kg	0.165	NA	68.4	65-120	NA	NA	
Surrogate: D.C.A.A.	0.119			mg/kg	0.165	NA	72.2	50-125			

Laboratory Control Sample Duplicate (B9F0390-BSD1)

Prepared: 06/18/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.109	0.050	0.0090	mg/kg	0.165	NA	66.4	60-125	2.15	25	
2,4,5-T.P.	0.116	0.050	0.0070	mg/kg	0.165	NA	70.2	65-125	1.78	25	
2,4-D	0.110	0.050	0.012	mg/kg	0.165	NA	66.6	60-125	1.56	25	
2,4-D.B.	0.132	0.050	0.011	mg/kg	0.165	NA	80.0	70-130	2.17	25	
Bentazon	0.143	0.050	0.0090	mg/kg	0.165	NA	86.8	65-125	2.68	25	
Dicamba	0.111	0.050	0.0080	mg/kg	0.165	NA	67.4	60-120	3.26	25	
Dinoseb	0.0824	0.050	0.0050	mg/kg	0.165	NA	50.0	30-120	2.73	25	
M.C.P.A.	0.108	0.050	0.014	mg/kg	0.165	NA	65.8	60-115	1.57	25	
Pentachlorophenol	0.110	0.050	0.0070	mg/kg	0.165	NA	66.6	50-120	0.663	25	
Picloram	0.0956	0.050	0.011	mg/kg	0.165	NA	58.0	30-100	12.5	25	
Triclopyr	0.115	0.050	0.0060	mg/kg	0.165	NA	69.8	65-120	1.66	25	
Surrogate: D.C.A.A.	0.115			mg/kg	0.165	NA	69.6	50-125			

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMA SOC Ph II Env. Investigation
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902732
Project Mgr: Steven J. Albrecht
Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0390 - EPA 3545

Laboratory Control Sample Duplicate (B9F0390-BSD1)

Prepared: 06/18/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Matrix Spike (B9F0390-MS1)

Source: 0902732-06RE1

Prepared: 06/18/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.174	0.086	0.015	mg/kg dry	0.286	ND	60.6	30-130	NA	NA	
2,4,5-T.P.	0.203	0.086	0.012	mg/kg dry	0.286	ND	71.0	40-130	NA	NA	
2,4-D	0.167	0.086	0.021	mg/kg dry	0.286	ND	58.4	30-125	NA	NA	
2,4-D.B.	0.240	0.086	0.019	mg/kg dry	0.286	ND	83.8	70-130	NA	NA	
Bentazon	0.250	0.086	0.015	mg/kg dry	0.286	ND	87.2	65-125	NA	NA	
Dicamba	0.160	0.086	0.014	mg/kg dry	0.286	ND	55.8	30-120	NA	NA	
Dinoseb	0.154	0.086	0.0086	mg/kg dry	0.286	ND	53.8	30-120	NA	NA	
M.C.P.A.	0.185	0.086	0.024	mg/kg dry	0.286	ND	64.6	30-120	NA	NA	
Pentachlorophenol	0.211	0.086	0.012	mg/kg dry	0.286	ND	73.8	50-120	NA	NA	
Picloram	ND	0.086	0.019	mg/kg dry	0.286	ND	NA	30-100	NA	NA	
Triclopyr	0.199	0.086	0.010	mg/kg dry	0.286	ND	69.6	30-120	NA	NA	

Surrogate: D.C.A.A.

0.223 mg/kg dry 0.286 NA 77.8 50-125

Matrix Spike Duplicate (B9F0390-MSD1)

Source: 0902732-06RE1

Prepared: 06/18/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.152	0.085	0.015	mg/kg dry	0.284	ND	53.4	30-130	13.4	25	
2,4,5-T.P.	0.187	0.085	0.012	mg/kg dry	0.284	ND	65.8	40-130	8.35	25	
2,4-D	0.162	0.085	0.020	mg/kg dry	0.284	ND	57.0	30-125	3.18	25	
2,4-D.B.	0.214	0.085	0.019	mg/kg dry	0.284	ND	75.4	70-130	11.3	25	
Bentazon	0.214	0.085	0.015	mg/kg dry	0.284	ND	75.2	65-125	15.5	25	
Dicamba	0.170	0.085	0.014	mg/kg dry	0.284	ND	59.8	30-120	6.17	25	
Dinoseb	0.138	0.085	0.0085	mg/kg dry	0.284	ND	48.6	30-120	10.9	25	
M.C.P.A.	0.177	0.085	0.024	mg/kg dry	0.284	ND	62.2	30-120	4.53	25	
Pentachlorophenol	0.174	0.085	0.012	mg/kg dry	0.284	ND	61.2	50-120	19.4	25	
Picloram	ND	0.085	0.019	mg/kg dry	0.284	ND	NA	30-100	NA	25	
Triclopyr	0.182	0.085	0.010	mg/kg dry	0.284	ND	64.2	30-120	8.82	25	

Surrogate: D.C.A.A.

0.206 mg/kg dry 0.284 NA 72.6 50-125

BRAUN INTERTEC

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Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMA SOC Ph II Env. Investigation
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902732
Project Mgr: Steven J. Albrecht
Account ID: B01058

0902732

Same

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number
23 / 190B0507 SOC 350
Project Name
UMA SOC Ph II Env. Investigation No 28195

(Liners Park)
Sample Identification

Sample Identification	Collection		Matrix		Type	Volatile Organics (Pres.) *1	Semivolatile Organics *2	Dissolved Metals (HNO ₃)	Total Metals (HNO ₃)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H ₂ SO ₄) *4	Oil and Grease (H ₂ SO ₄)	Sulfide (Zn Acetate)	Methane	Bacteria (Na ₂ S ₂ O ₃)	DRO (HCl)	VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH) *1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)	MVA List 1 Ppt. (S170c)	MVA List 2 Ppt. (S270c)	Total No. of Containers
	Date	Time	Water	Soil	Grab																					
1. SOCL-GR7-0-4'	6-3-09	1415	X	X																			X	X	X	3
2. SOCL-GR6-2-4'	6-3-09	1515	X	X																			X	X	X	3
3. SOCC-Dug-1	6-4-09	-	X	X																			X	X	X	2
4. SOCL-GRB-2-4'	6-4-09	910	X	X																			X	X	X	3
5. SOCL-GR5-1-2'	6-4-09	945	X	X																			X	X	X	3
6. SOCL-GR1-1-2'	6-4-09	1145	X	X																			X	X	X	3
7. MS/MSD	6-4-09		X	X																			X	X	X	2
8.																										
9.																										
10.																										
11.																										
12.																										

Common Parameter/Container - Preservation Key
 *1 - Volatile Organics = BTEX, GRO, TPH, Full List
 *2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
 *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
 *4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Number of Containers/Preservative		COC _____ of _____	
Water		Soil	
Volatile Organics (Pres.) *1			
Semivolatile Organics *2			
Dissolved Metals (HNO ₃)			
Total Metals (HNO ₃)			
General (Unpreserved) *3			
Cyanide (NaOH)			
Nutrients (H ₂ SO ₄) *4			
Oil and Grease (H ₂ SO ₄)			
Sulfide (Zn Acetate)			
Methane			
Bacteria (Na ₂ S ₂ O ₃)			
DRO (HCl)			
VOCs (2-oz tared MeOH) *1			
GRO, BTEX (2-oz tared MeOH) *1			
DRO (2-oz tared) - 25 grams			
Metals (2-oz unpreserved)			
SVOCs (2 or 4-oz unpres.) *2			
% Moisture (plastic vial, unpres.)			
MVA List 1 Ppt. (S170c)			
MVA List 2 Ppt. (S270c)			
Total No. of Containers			

Relinquished By: J-ED On Ice? N Date: 6/8/09 Time: 9:23 Received by: Barry Ritten OR Date: 6/5/09 Time: 11:15
 Relinquished By: Barry Ritten On Ice? N Date: 6/8/09 Time: 9:23 Received by: Barry Ritten Date: 6/8/09 Time: 0923
 Samples Shipped Via: Air Freight Federal Express Sampler Air Bill Number:
 Other
 Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

4.6°C

EXTRA SAMPLE VOLUME
from SOCC-GR5-1-2'

H:\6.031031\0902732\Chain of Custody Form - RLD - Rev. 07/01/05

BRAUN INTERTEC

Braun Intertec Corporation
11001 Hampshire Avenue S.
Minneapolis, MN 55438

Phone: 952.995.2000
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Web: braunintertec.com

Mr. James Aiken
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

August 12, 2009

Work Order #: 0902734
(Revised)

RE: UMA SOC Ph II Env. Investigation

Dear James Aiken:

Braun Intertec Corporation received samples for the project identified above on June 08, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,



Steven J. Albrecht
Associate Principal



Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117

Wisconsin DNR: 999462640

Providing engineering and environmental solutions since 1957

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMA SOC Ph II Env. Investigation
Client Contact: Mr. James Aiken
PO Number:

Work Order #: 0902734
Project Mgr: Steven J. Albrecht
Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a “story” about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini “case narrative” that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each “cooler” is identified and the conditions associated with that cooler are documented. A “cooler” is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be “Total Petroleum Hydrocarbons.” Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an “M” (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word “dry” will appear next to the units. If the word “dry” does not appear then the result is “as received.”

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up as bolded. They are considered “hits.” The MDL is a statistically derived number that indicates, with high confidence, that an analyte can be detected above noise level. If a result is less than this value it is marked as “ND” for “Non-Detect.” If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a “J” flag denoting that it has been detected but that the result is an estimate. This is consistent with the *CLP Statement of Work* and the *National Functional Guidelines*.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMA SOC Ph II Env. Investigation
Client Contact: Mr. James Aiken
PO Number:

Work Order #: 0902734
Project Mgr: Steven J. Albrecht
Account ID: B01058

Qualifiers and Abbreviations

go	The laboratory control sample recovery is outside of laboratory control limits.
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound



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Barr Engineering Company
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Client Ref: UMA SOC Ph II Env. Investigation
Client Contact: Mr. James Aiken
PO Number:

Work Order #: 0902734
Project Mgr: Steven J. Albrecht
Account ID: B01058

Case Narrative

The laboratory control sample duplicate (LCSD) for the List 1 Pesticides water analysis (B9F0203-BSD1) did not extract/concentrate properly and is not representative of the batch. The results for the LCSD were not reported. The laboratory control sample LCS was within normal limits and is reported.



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Barr Engineering Company
4700 West 77th Street
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Client Ref: UMA SOC Ph II Env. Investigation
Client Contact: Mr. James Aiken
PO Number:

Work Order #: 0902734
Project Mgr: Steven J. Albrecht
Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC6-FB1	0902734-01	Water	06/04/09 10:30	06/08/09 09:23

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMA SOC Ph II Env. Investigation
Client Contact: Mr. James Aiken
PO Number:

Work Order #: 0902734
Project Mgr: Steven J. Albrecht
Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler #1

Temperature: 4.6 °C
COC Included: Yes
Custody Seals Used: No
Custody Seals Intact: NA

Received on Ice: Yes
Hand Delivered by Sampler: Yes
Sufficient Sample Provided: Yes
Headspace Present (VOC): No

Preservation Confirmed: No
Temperature Blank: No
COC Complete: Yes
COC & Labels Agree: Yes



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Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMA SOC Ph II Env. Investigation Client Contact: Mr. James Aiken PO Number:	Work Order #: 0902734 Project Mgr: Steven J. Albrecht Account ID: B01058
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SOC6-FB1
0902734-01 (Water)
6/4/09 10:30

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.50	0.25	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Alachlor	ND	0.50	0.19	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Atrazine	ND	0.50	0.24	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Chlorpyrifos	ND	0.50	0.34	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Cyanazine	ND	0.50	0.48	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Deisopropylatrazine	ND	0.50	0.26	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	go
Desethylatrazine	ND	0.50	0.29	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Dimethenamid	ND	0.50	0.24	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
EPTC	ND	0.50	0.22	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Ethalfuralin	ND	0.50	0.47	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Fonofos	ND	0.50	0.30	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Metolachlor	ND	0.50	0.28	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Metribuzin	ND	0.50	0.35	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Pendimethalin	ND	0.50	0.25	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Phorate	ND	1.0	0.58	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	go
Prometon	ND	0.50	0.29	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Propachlor	ND	0.50	0.14	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Propazine	ND	0.50	0.21	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Simazine	ND	0.50	0.32	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	go
Terbufos	ND	1.0	0.54	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Triallate	ND	0.50	0.34	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Trifluralin	ND	0.50	0.21	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Surrogate: Atrazine-d5	98.6 %	Limits: 50-120%			B9F0203	6/10/09	6/12/09	EPA 8270C	
Surrogate: Diazinon-d10	96.3 %	Limits: 50-120%			B9F0203	6/10/09	6/12/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMA SOC Ph II Env. Investigation
Client Contact: Mr. James Aiken
PO Number:

Work Order #: 0902734
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC6-FB1
0902734-01 (Water)
6/4/09 10:30

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.50	0.31	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
2,4,5-T.P.	ND	0.50	0.28	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
2,4-D	ND	0.50	0.26	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
2,4-D.B.	ND	0.50	0.15	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Bentazon	ND	0.50	0.22	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Dicamba	ND	0.50	0.38	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Dinoseb	ND	0.50	0.34	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
M.C.P.A.	ND	0.30	0.29	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Pentachlorophenol	ND	0.50	0.39	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Picloram	ND	0.50	0.25	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Triclopyr	ND	0.50	0.41	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Surrogate: D.C.A.A.	87.2 %	Limits: 70-130%			B9F0210	6/11/09	6/12/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMA SOC Ph II Env. Investigation
Client Contact: Mr. James Aiken
PO Number:

Work Order #: 0902734
Project Mgr: Steven J. Albrecht
Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0203 - EPA 3520C

Method Blank (B9F0203-BLK1)

Prepared: 06/10/09 Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	ND	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Alachlor	ND	0.50	0.19	ug/L	NA	NA	NA	NA	NA	NA	
Atrazine	ND	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	ND	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Cyanazine	ND	0.50	0.48	ug/L	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	ND	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
Desethylatrazine	ND	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Dimethenamid	ND	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
EPTC	ND	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Ethalfuralin	ND	0.50	0.47	ug/L	NA	NA	NA	NA	NA	NA	
Fonofos	ND	0.50	0.30	ug/L	NA	NA	NA	NA	NA	NA	
Metolachlor	ND	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
Metribuzin	ND	0.50	0.35	ug/L	NA	NA	NA	NA	NA	NA	
Pendimethalin	ND	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Phorate	ND	1.0	0.58	ug/L	NA	NA	NA	NA	NA	NA	
Prometon	ND	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Propachlor	ND	0.50	0.14	ug/L	NA	NA	NA	NA	NA	NA	
Propazine	ND	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Simazine	ND	0.50	0.32	ug/L	NA	NA	NA	NA	NA	NA	
Terbufos	ND	1.0	0.54	ug/L	NA	NA	NA	NA	NA	NA	
Triallate	ND	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Trifluralin	ND	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	11.6			ug/L	10.0	NA	116	50-120			
Surrogate: Diazinon-d10	11.5			ug/L	10.0	NA	115	50-120			

Laboratory Control Sample (B9F0203-BS1)

Prepared: 06/10/09 Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	7.65	0.50	0.25	ug/L	10.0	NA	76.5	65-115	NA	NA	
Alachlor	7.75	0.50	0.19	ug/L	10.0	NA	77.5	65-115	NA	NA	
Atrazine	7.43	0.50	0.24	ug/L	10.0	NA	74.3	65-115	NA	NA	
Chlorpyrifos	7.52	0.50	0.34	ug/L	10.0	NA	75.2	65-115	NA	NA	
Cyanazine	8.53	0.50	0.48	ug/L	10.0	NA	85.3	65-115	NA	NA	
Deisopropylatrazine	5.41	0.50	0.26	ug/L	10.0	NA	54.1	65-115	NA	NA	
Desethylatrazine	7.18	0.50	0.29	ug/L	10.0	NA	71.8	65-115	NA	NA	
Dimethenamid	7.67	0.50	0.24	ug/L	10.0	NA	76.7	65-115	NA	NA	
EPTC	5.83	0.50	0.22	ug/L	10.0	NA	58.3	50-110	NA	NA	
Ethalfuralin	7.52	0.50	0.47	ug/L	10.0	NA	75.2	65-115	NA	NA	
Fonofos	7.24	0.50	0.30	ug/L	10.0	NA	72.4	55-115	NA	NA	
Metolachlor	7.85	0.50	0.28	ug/L	10.0	NA	78.5	70-120	NA	NA	
Metribuzin	8.08	0.50	0.35	ug/L	10.0	NA	80.8	70-120	NA	NA	
Pendimethalin	7.44	0.50	0.25	ug/L	10.0	NA	74.4	65-115	NA	NA	
Phorate	2.84	1.0	0.58	ug/L	10.0	NA	28.4	30-100	NA	NA	
Prometon	8.06	0.50	0.29	ug/L	10.0	NA	80.6	70-120	NA	NA	
Propachlor	7.29	0.50	0.14	ug/L	10.0	NA	72.9	65-115	NA	NA	



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Barr Engineering Company
 4700 West 77th Street
 Minneapolis, MN 55435-4803

Client Ref: UMA SOC Ph II Env. Investigation
 Client Contact: Mr. James Aiken
 PO Number:

Work Order #: 0902734
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0203 - EPA 3520C

Laboratory Control Sample (B9F0203-BS1)

Prepared: 06/10/09 Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Propazine	7.54	0.50	0.21	ug/L	10.0	NA	75.4	65-115	NA	NA	
Simazine	6.23	0.50	0.32	ug/L	10.0	NA	62.3	65-115	NA	NA	
Terbufos	3.18	1.0	0.54	ug/L	10.0	NA	31.8	30-100	NA	NA	
Triallate	7.31	0.50	0.34	ug/L	10.0	NA	73.1	65-115	NA	NA	
Trifluralin	7.32	0.50	0.21	ug/L	10.0	NA	73.2	65-115	NA	NA	
<i>Surrogate: Atrazine-d5</i>	<i>8.51</i>			<i>ug/L</i>	<i>10.0</i>	<i>NA</i>	<i>85.1</i>	<i>50-120</i>			
<i>Surrogate: Diazinon-d10</i>	<i>8.41</i>			<i>ug/L</i>	<i>10.0</i>	<i>NA</i>	<i>84.1</i>	<i>50-120</i>			

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMA SOC Ph II Env. Investigation
Client Contact: Mr. James Aiken
PO Number:

Work Order #: 0902734
Project Mgr: Steven J. Albrecht
Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0210 - EPA 3510C

Method Blank (B9F0210-BLK1)

Prepared: 06/11/09 Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	ND	0.50	0.31	ug/L	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	ND	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D	ND	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D.B.	ND	0.50	0.15	ug/L	NA	NA	NA	NA	NA	NA	
Bentazon	ND	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Dicamba	ND	0.50	0.38	ug/L	NA	NA	NA	NA	NA	NA	
Dinoseb	ND	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
M.C.P.A.	ND	0.30	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	ND	0.50	0.39	ug/L	NA	NA	NA	NA	NA	NA	
Picloram	ND	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Triclopyr	ND	0.50	0.41	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	4.69			ug/L	5.00	NA	93.8	70-130			

Laboratory Control Sample (B9F0210-BS1)

Prepared: 06/11/09 Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.56	0.50	0.31	ug/L	5.00	NA	91.2	70-140	NA	NA	
2,4,5-T.P.	4.66	0.50	0.28	ug/L	5.00	NA	93.2	80-135	NA	NA	
2,4-D	4.53	0.50	0.26	ug/L	5.00	NA	90.6	80-135	NA	NA	
2,4-D.B.	4.90	0.50	0.15	ug/L	5.00	NA	98.0	80-140	NA	NA	
Bentazon	4.94	0.50	0.22	ug/L	5.00	NA	98.8	80-140	NA	NA	
Dicamba	4.52	0.50	0.38	ug/L	5.00	NA	90.4	80-130	NA	NA	
Dinoseb	3.01	0.50	0.34	ug/L	5.00	NA	60.2	40-125	NA	NA	
M.C.P.A.	4.58	0.30	0.29	ug/L	5.00	NA	91.6	80-130	NA	NA	
Pentachlorophenol	4.49	0.50	0.39	ug/L	5.00	NA	89.8	70-120	NA	NA	
Picloram	3.71	0.50	0.25	ug/L	5.00	NA	74.2	60-125	NA	NA	
Triclopyr	4.61	0.50	0.41	ug/L	5.00	NA	92.2	80-125	NA	NA	
Surrogate: D.C.A.A.	4.52			ug/L	5.00	NA	90.4	70-130			

Laboratory Control Sample Duplicate (B9F0210-BSD1)

Prepared: 06/11/09 Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.40	0.50	0.31	ug/L	5.00	NA	88.0	70-140	3.57	20	
2,4,5-T.P.	4.59	0.50	0.28	ug/L	5.00	NA	91.8	80-135	1.51	20	
2,4-D	4.42	0.50	0.26	ug/L	5.00	NA	88.4	80-135	2.46	20	
2,4-D.B.	4.77	0.50	0.15	ug/L	5.00	NA	95.4	80-140	2.69	20	
Bentazon	4.85	0.50	0.22	ug/L	5.00	NA	97.0	80-140	1.84	20	
Dicamba	4.48	0.50	0.38	ug/L	5.00	NA	89.6	80-130	0.889	20	
Dinoseb	2.55	0.50	0.34	ug/L	5.00	NA	51.0	40-125	16.5	20	
M.C.P.A.	4.45	0.30	0.29	ug/L	5.00	NA	89.0	80-130	2.88	20	
Pentachlorophenol	4.37	0.50	0.39	ug/L	5.00	NA	87.4	70-120	2.71	20	
Picloram	3.79	0.50	0.25	ug/L	5.00	NA	75.8	60-125	2.13	20	
Triclopyr	4.42	0.50	0.41	ug/L	5.00	NA	88.4	80-125	4.21	20	
Surrogate: D.C.A.A.	4.50			ug/L	5.00	NA	90.0	70-130			



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Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMA SOC Ph II Env. Investigation Client Contact: Mr. James Aiken PO Number:	Work Order #: 0902734 Project Mgr: Steven J. Albrecht Account ID: B01058
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Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0210 - EPA 3510C

Laboratory Control Sample Duplicate (B9F0210-BSD1)

Prepared: 06/11/09 Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Duplicate (B9F0210-DUP1)

Source: 0902734-01

Prepared: 06/11/09 Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	ND	0.52	0.32	ug/L	NA	ND	NA	NA	NA	25	
2,4,5-T.P.	ND	0.52	0.29	ug/L	NA	ND	NA	NA	NA	25	
2,4-D	ND	0.52	0.27	ug/L	NA	ND	NA	NA	NA	25	
2,4-D.B.	ND	0.52	0.15	ug/L	NA	ND	NA	NA	NA	25	
Bentazon	ND	0.52	0.23	ug/L	NA	ND	NA	NA	NA	25	
Dicamba	ND	0.52	0.39	ug/L	NA	ND	NA	NA	NA	25	
Dinoseb	ND	0.52	0.35	ug/L	NA	ND	NA	NA	NA	25	
M.C.P.A.	ND	0.31	0.30	ug/L	NA	ND	NA	NA	NA	25	
Pentachlorophenol	ND	0.52	0.40	ug/L	NA	ND	NA	NA	NA	25	
Picloram	ND	0.52	0.26	ug/L	NA	ND	NA	NA	NA	25	
Triclopyr	ND	0.52	0.42	ug/L	NA	ND	NA	NA	NA	25	

Surrogate: D.C.A.A. 4.47 ug/L 5.15 NA 86.8 70-130

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMA SOC Ph II Env. Investigation
Client Contact: Mr. James Aiken
PO Number:

Work Order #: 0902734
Project Mgr: Steven J. Albrecht
Account ID: B01058

0902734

Chain of Custody
BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 2,3,1,9,0,10,5,07,SOC,359
Project Name: UMAP PHII Env. Investigation No 28198

Sample Identification	Collection		Matrix		Type		Number of Containers/Preservative																COC ____ of ____						
	Date	Time	Water	Soil	Grab	Comp.	Water								Soil														
								Volatile Organics (Pres.) *1	Semivolatile Organics *2	Dissolved Metals (HNO ₃)	Total Metals (HNO ₃)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H ₂ SO ₄) *4	Oil and Grease (H ₂ SO ₄)	Sulfide (Zn Acetate)	Methane	Bacteria (Na ₂ S ₂ O ₃)	DRO (HCl)	VOCs (2-oz tared MeOH) *7	GRO, BTEX (2-oz tared MeOH) *7	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)	MOA LIST 1 (Est/Ret/OC)	MOA LIST 2 (Est/Ret/OC)	Total No. Of Containers	
1. SOC6-FB1	6-4-09	1030	X		X																					X	X	3	
2.																													
3.																													
4.																													
5.																													
6.																													
7.																													
8.																													
9.																													
10.																													
11.																													
12.																													

4.6°C

Common Parameter/Container - Preservation Key
 *1 - Volatile Organics = BTEX, GRO, TPH, Full List
 *2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
 *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
 *4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By: JCC	On Ice? <input checked="" type="checkbox"/>	Date: 6/8/09	Time: 9:23	Received by: [Signature]	Date: 6/8/09	Time: 09:23
Relinquished By: [Signature]	On Ice? <input checked="" type="checkbox"/>	Date: 6/8/09	Time: 9:23	Received by: [Signature]	Date: 6/5/09	Time: 11:15

Samples Shipped Via: Air Freight Federal Express Slinger Other

Air Bill Number: _____

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

in Hank, RR

TITLE 1010 FOR OPRMS/Chain of Custody Form BCG Rev. 07/01/05

BRAUN **INTERTEC**

Braun Intertec Corporation
11001 Hampshire Avenue S.
Minneapolis, MN 55438

Phone: 952.995.2000
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Web: braunintertec.com

Ms. Kelly Nepl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

August 12, 2009

Work Order #: 0902797
(Revised)

RE: UMore Phase II

Dear Kelly Nepl:

Braun Intertec Corporation received samples for the project identified above on June 10, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,



Steven J. Albrecht
Associate Principal



Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117

Wisconsin DNR: 999462640

Providing engineering and environmental solutions since 1957

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Phase II
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902797
Project Mgr: Steven J. Albrecht
Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up as bolded. They are considered "hits." The MDL is a statistically derived number that indicates, with high confidence, that an analyte can be detected above noise level. If a result is less than this value it is marked as "ND" for "Non-Detect." If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate. This is consistent with the *CLP Statement of Work* and the *National Functional Guidelines*.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

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Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Phase II
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902797
Project Mgr: Steven J. Albrecht
Account ID: B01058

Qualifiers and Abbreviations

vn	The surrogate recovery is below the laboratory generated control limits.
vm	The surrogate recovery is above the laboratory generated control limits.
sur	One or more surrogate recoveries reported with this sample analysis are outside of the laboratory control limits.
qo	The relative percent difference (RPD) was outside of laboratory control limits for the matrix spike (MS) and matrix spike duplicate (MSD) samples.
qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
go	The laboratory control sample recovery is outside of laboratory control limits.
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound



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Case Narrative

The blank spike duplicate for the List 1 water analysis (B9F0203-BSD1) did not extract/concentrate properly and is not representative of the batch. The results for the BSD1 were thus set to non-reported.

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SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S0C1-GP1	0902797-01	Water	06/08/09 11:00	06/10/09 10:16
GP-DUP-1	0902797-02	Water	06/08/09 11:05	06/10/09 10:16
S0C1-GP1, 0-4	0902797-03	Soil	06/08/09 13:30	06/10/09 10:16
S0C1-GP2, 0-4	0902797-04	Soil	06/08/09 14:00	06/10/09 10:16
S0C6-GP6	0902797-05	Water	06/08/09 16:00	06/10/09 10:16



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Conditions Upon Receipt

Cooler: Cooler 2

Temperature: 2.3 °C	Received on Ice: Yes	Preservation Confirmed: No
COC Included: Yes	Hand Delivered by Sampler: No	Temperature Blank: Yes
Custody Seals Used: No	Sufficient Sample Provided: Yes	COC Complete: Yes
Custody Seals Intact: NA	Headspace Present (VOC): No	COC & Labels Agree: Yes

Cooler: Cooler #1

Temperature: 1.9 °C	Received on Ice: Yes	Preservation Confirmed: No
COC Included: Yes	Hand Delivered by Sampler: No	Temperature Blank: Yes
Custody Seals Used: No	Sufficient Sample Provided: Yes	COC Complete: Yes
Custody Seals Intact: NA	Headspace Present (VOC): No	COC & Labels Agree: Yes

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Account ID: B01058

S0C1-GP1
0902797-01 (Water)
6/8/09 11:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.68	0.34	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Alachlor	ND	0.68	0.26	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Atrazine	ND	0.68	0.32	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Chlorpyrifos	ND	0.68	0.46	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Cyanazine	ND	0.68	0.65	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Deisopropylatrazine	ND	0.68	0.35	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	go
Desethylatrazine	ND	0.68	0.39	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Dimethenamid	ND	0.68	0.32	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
EPTC	ND	0.68	0.29	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Ethalfuralin	ND	0.68	0.63	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Fonofos	ND	0.68	0.40	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Metolachlor	ND	0.68	0.37	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Metribuzin	ND	0.68	0.47	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Pendimethalin	ND	0.68	0.34	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Phorate	ND	1.4	0.79	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	go
Prometon	ND	0.68	0.40	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Propachlor	ND	0.68	0.19	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Propazine	ND	0.68	0.28	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Simazine	ND	0.68	0.43	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	go
Terbufos	ND	1.4	0.73	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Triallate	ND	0.68	0.46	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Trifluralin	ND	0.68	0.29	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Surrogate: Atrazine-d5	107 %	Limits: 50-120%			B9F0203	6/10/09	6/12/09	EPA 8270C	
Surrogate: Diazinon-d10	105 %	Limits: 50-120%			B9F0203	6/10/09	6/12/09	EPA 8270C	

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Account ID: B01058

S0C1-GP1
0902797-01 (Water)
6/8/09 11:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.64	0.40	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
2,4,5-T.P.	ND	0.64	0.36	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
2,4-D	ND	0.64	0.34	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
2,4-D.B.	ND	0.64	0.19	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Bentazon	ND	0.64	0.29	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Dicamba	ND	0.64	0.49	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Dinoseb	ND	0.64	0.44	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
M.C.P.A.	ND	0.38	0.37	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Pentachlorophenol	ND	0.64	0.50	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Picloram	ND	0.64	0.32	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Triclopyr	ND	0.64	0.52	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Surrogate: D.C.A.A.	86.6 %	Limits: 70-130%			B9F0210	6/11/09	6/12/09	EPA 8270C	

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Client Ref: UMore Phase II
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PO Number:

Work Order #: 0902797
Project Mgr: Steven J. Albrecht
Account ID: B01058

GP-DUP-1
0902797-02 (Water)
6/8/09 11:05

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.69	0.35	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Alachlor	ND	0.69	0.26	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Atrazine	ND	0.69	0.33	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Chlorpyrifos	ND	0.69	0.47	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Cyanazine	ND	0.69	0.67	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Deisopropylatrazine	ND	0.69	0.36	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	go
Desethylatrazine	ND	0.69	0.40	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Dimethenamid	ND	0.69	0.33	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
EPTC	ND	0.69	0.30	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Ethalfuralin	ND	0.69	0.65	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Fonofos	ND	0.69	0.41	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Metolachlor	ND	0.69	0.38	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Metribuzin	ND	0.69	0.48	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Pendimethalin	ND	0.69	0.35	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Phorate	ND	1.4	0.81	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	go
Prometon	ND	0.69	0.41	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Propachlor	ND	0.69	0.19	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Propazine	ND	0.69	0.29	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Simazine	ND	0.69	0.44	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	go
Terbufos	ND	1.4	0.75	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Triallate	ND	0.69	0.47	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Trifluralin	ND	0.69	0.30	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Surrogate: Atrazine-d5	115 %	Limits: 50-120%			B9F0203	6/10/09	6/12/09	EPA 8270C	
Surrogate: Diazinon-d10	110 %	Limits: 50-120%			B9F0203	6/10/09	6/12/09	EPA 8270C	

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Account ID: B01058

GP-DUP-1
0902797-02 (Water)
6/8/09 11:05

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.68	0.42	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
2,4,5-T.P.	ND	0.68	0.38	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
2,4-D	ND	0.68	0.36	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
2,4-D.B.	ND	0.68	0.20	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Bentazon	ND	0.68	0.30	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Dicamba	ND	0.68	0.51	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Dinoseb	ND	0.68	0.46	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
M.C.P.A.	ND	0.41	0.39	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Pentachlorophenol	ND	0.68	0.53	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Picloram	ND	0.68	0.34	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Triclopyr	ND	0.68	0.55	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Surrogate: D.C.A.A.	84.8 %	Limits: 70-130%			B9F0210	6/11/09	6/12/09	EPA 8270C	

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Project Mgr: Steven J. Albrecht
Account ID: B01058

S0C1-GP1, 0-4
0902797-03 (Soil)
6/8/09 13:30

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	95	0.050	0.010	% Wt	B9F0215	6/11/09	6/12/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.042	0.010	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Alachlor	ND	0.042	0.0073	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Atrazine	ND	0.042	0.010	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Chlorpyrifos	ND	0.042	0.0073	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Cyanazine	ND	0.042	0.0084	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Deisopropylatrazine	ND	0.042	0.0084	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Desethylatrazine	ND	0.042	0.012	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Dimethenamid	ND	0.042	0.0063	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
EPTC	ND	0.042	0.0063	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Ethalfuralin	ND	0.042	0.015	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Fonofos	ND	0.042	0.0042	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Metolachlor	ND	0.042	0.0031	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	qn, qo
Metribuzin	ND	0.042	0.0094	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Pendimethalin	ND	0.042	0.017	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Phorate	ND	0.042	0.0063	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Prometon	ND	0.042	0.0063	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Propachlor	ND	0.042	0.0094	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Propazine	ND	0.042	0.0073	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Simazine	ND	0.042	0.0094	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Terbufos	ND	0.042	0.0094	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Triallate	ND	0.042	0.0052	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Trifluralin	ND	0.042	0.015	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Surrogate: Atrazine-d5	90.9 %	Limits: 70-120%			B9F0265	6/15/09	6/17/09	EPA 8270C	
Surrogate: Diazinon-d10	93.0 %	Limits: 50-120%			B9F0265	6/15/09	6/17/09	EPA 8270C	

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S0C1-GP1, 0-4
0902797-03 (Soil)
6/8/09 13:30

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.052	0.0094	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
2,4,5-T.P.	ND	0.052	0.0073	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
2,4-D	ND	0.052	0.013	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
2,4-D.B.	ND	0.052	0.012	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Bentazon	ND	0.052	0.0094	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Dicamba	ND	0.052	0.0084	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Dinoseb	ND	0.052	0.0052	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
M.C.P.A.	ND	0.052	0.015	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Pentachlorophenol	ND	0.052	0.0073	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Picloram	ND	0.052	0.012	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	qn
Triclopyr	ND	0.052	0.0063	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Surrogate: D.C.A.A.	76.8 %	Limits: 60-125%			B9F0427	6/22/09	6/29/09	EPA 8270C	

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S0C1-GP2, 0-4
0902797-04 (Soil)
6/8/09 14:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	87	0.050	0.010	% Wt	B9F0215	6/11/09	6/12/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.045	0.011	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Alachlor	ND	0.045	0.0078	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Atrazine	ND	0.045	0.011	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Chlorpyrifos	ND	0.045	0.0078	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Cyanazine	ND	0.045	0.0089	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Deisopropylatrazine	ND	0.045	0.0089	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Desethylatrazine	ND	0.045	0.012	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Dimethenamid	ND	0.045	0.0067	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
EPTC	ND	0.045	0.0067	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Ethalfuralin	ND	0.045	0.016	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Fonofos	ND	0.045	0.0045	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Metolachlor	ND	0.045	0.0033	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	qn, qo
Metribuzin	ND	0.045	0.010	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Pendimethalin	ND	0.045	0.018	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Phorate	ND	0.045	0.0067	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Prometon	ND	0.045	0.0067	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Propachlor	ND	0.045	0.010	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Propazine	ND	0.045	0.0078	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Simazine	ND	0.045	0.010	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Terbufos	ND	0.045	0.010	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Triallate	ND	0.045	0.0056	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Trifluralin	ND	0.045	0.016	mg/kg dry	B9F0265	6/15/09	6/17/09	EPA 8270C	
Surrogate: Atrazine-d5	87.3 %	Limits: 70-120%			B9F0265	6/15/09	6/17/09	EPA 8270C	
Surrogate: Diazinon-d10	84.7 %	Limits: 50-120%			B9F0265	6/15/09	6/17/09	EPA 8270C	

Barr Engineering Company
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Client Ref: UMore Phase II
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0902797
Project Mgr: Steven J. Albrecht
Account ID: B01058

S0C1-GP2, 0-4

0902797-04 (Soil)

6/8/09 14:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.065	0.012	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
2,4,5-T.P.	ND	0.065	0.0091	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
2,4-D	ND	0.065	0.016	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
2,4-D.B.	ND	0.065	0.014	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Bentazon	ND	0.065	0.012	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Dicamba	ND	0.065	0.010	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Dinoseb	ND	0.065	0.0065	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
M.C.P.A.	ND	0.065	0.018	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Pentachlorophenol	ND	0.065	0.0091	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Picloram	ND	0.065	0.014	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	qn
Triclopyr	ND	0.065	0.0078	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Surrogate: D.C.A.A.	82.0 %	Limits: 60-125%			B9F0427	6/22/09	6/29/09	EPA 8270C	

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Work Order #: 0902797
Project Mgr: Steven J. Albrecht
Account ID: B01058

S0C6-GP6
0902797-05 (Water)
6/8/09 16:00

Neutral Extractable Pesticides (MDA List 1)

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Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.63	0.32	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Alachlor	ND	0.63	0.24	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Atrazine	ND	0.63	0.30	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Chlorpyrifos	ND	0.63	0.43	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Cyanazine	ND	0.63	0.61	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Deisopropylatrazine	ND	0.63	0.33	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	go
Desethylatrazine	ND	0.63	0.37	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Dimethenamid	ND	0.63	0.30	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
EPTC	ND	0.63	0.27	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Ethalfuralin	ND	0.63	0.59	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Fonofos	ND	0.63	0.37	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Metolachlor	ND	0.63	0.35	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Metribuzin	ND	0.63	0.44	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Pendimethalin	ND	0.63	0.32	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Phorate	ND	1.3	0.74	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	go
Prometon	ND	0.63	0.37	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Propachlor	ND	0.63	0.18	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Propazine	ND	0.63	0.26	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Simazine	ND	0.63	0.40	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	go
Terbufos	ND	1.3	0.69	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Triallate	ND	0.63	0.43	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Trifluralin	ND	0.63	0.27	ug/L	B9F0203	6/10/09	6/12/09	EPA 8270C	
Surrogate: Atrazine-d5	122 %	Limits: 50-120%			B9F0203	6/10/09	6/12/09	EPA 8270C	vm
Surrogate: Diazinon-d10	116 %	Limits: 50-120%			B9F0203	6/10/09	6/12/09	EPA 8270C	

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Account ID: B01058

S0C6-GP6
0902797-05 (Water)
6/8/09 16:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.61	0.38	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
2,4,5-T.P.	ND	0.61	0.35	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
2,4-D	ND	0.61	0.32	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
2,4-D.B.	ND	0.61	0.18	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Bentazon	ND	0.61	0.27	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Dicamba	ND	0.61	0.46	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Dinoseb	ND	0.61	0.42	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
M.C.P.A.	ND	0.37	0.36	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Pentachlorophenol	ND	0.61	0.48	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Picloram	ND	0.61	0.31	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Triclopyr	ND	0.61	0.50	ug/L	B9F0210	6/11/09	6/12/09	EPA 8270C	
Surrogate: D.C.A.A.	83.6 %	Limits: 70-130%			B9F0210	6/11/09	6/12/09	EPA 8270C	



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Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore Phase II Client Contact: Ms. Kelly Neppi PO Number:	Work Order #: 0902797 Project Mgr: Steven J. Albrecht Account ID: B01058
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Classical Chemistry Parameters - Quality Control

Batch B9F0215 - % Solids

Method Blank (B9F0215-BLK1)

Prepared: 06/11/09 Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	ND	0.050	0.010	% Wt	NA	NA	NA	NA	NA	NA	

Duplicate (B9F0215-DUP1)

Source: 0902797-03

Prepared: 06/11/09 Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	93.5	0.050	0.010	% Wt	NA	95.3	NA	NA	1.85	20	

Standard Reference Material (B9F0215-SRM1)

Prepared: 06/11/09 Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	86.2			% Wt	91.3	NA	94.5	90-110	NA	NA	

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Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0203 - EPA 3520C

Method Blank (B9F0203-BLK1)

Prepared: 06/10/09 Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	ND	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Alachlor	ND	0.50	0.19	ug/L	NA	NA	NA	NA	NA	NA	
Atrazine	ND	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	ND	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Cyanazine	ND	0.50	0.48	ug/L	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	ND	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
Desethylatrazine	ND	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Dimethenamid	ND	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
EPTC	ND	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Ethalfuralin	ND	0.50	0.47	ug/L	NA	NA	NA	NA	NA	NA	
Fonofos	ND	0.50	0.30	ug/L	NA	NA	NA	NA	NA	NA	
Metolachlor	ND	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
Metribuzin	ND	0.50	0.35	ug/L	NA	NA	NA	NA	NA	NA	
Pendimethalin	ND	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Phorate	ND	1.0	0.58	ug/L	NA	NA	NA	NA	NA	NA	
Prometon	ND	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Propachlor	ND	0.50	0.14	ug/L	NA	NA	NA	NA	NA	NA	
Propazine	ND	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Simazine	ND	0.50	0.32	ug/L	NA	NA	NA	NA	NA	NA	
Terbufos	ND	1.0	0.54	ug/L	NA	NA	NA	NA	NA	NA	
Triallate	ND	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Trifluralin	ND	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	11.6			ug/L	10.0	NA	116	50-120			
Surrogate: Diazinon-d10	11.5			ug/L	10.0	NA	115	50-120			

Laboratory Control Sample (B9F0203-BS1)

Prepared: 06/10/09 Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	7.65	0.50	0.25	ug/L	10.0	NA	76.5	65-115	NA	NA	
Alachlor	7.75	0.50	0.19	ug/L	10.0	NA	77.5	65-115	NA	NA	
Atrazine	7.43	0.50	0.24	ug/L	10.0	NA	74.3	65-115	NA	NA	
Chlorpyrifos	7.52	0.50	0.34	ug/L	10.0	NA	75.2	65-115	NA	NA	
Cyanazine	8.53	0.50	0.48	ug/L	10.0	NA	85.3	65-115	NA	NA	
Deisopropylatrazine	5.41	0.50	0.26	ug/L	10.0	NA	54.1	65-115	NA	NA	
Desethylatrazine	7.18	0.50	0.29	ug/L	10.0	NA	71.8	65-115	NA	NA	
Dimethenamid	7.67	0.50	0.24	ug/L	10.0	NA	76.7	65-115	NA	NA	
EPTC	5.83	0.50	0.22	ug/L	10.0	NA	58.3	50-110	NA	NA	
Ethalfuralin	7.52	0.50	0.47	ug/L	10.0	NA	75.2	65-115	NA	NA	
Fonofos	7.24	0.50	0.30	ug/L	10.0	NA	72.4	55-115	NA	NA	
Metolachlor	7.85	0.50	0.28	ug/L	10.0	NA	78.5	70-120	NA	NA	
Metribuzin	8.08	0.50	0.35	ug/L	10.0	NA	80.8	70-120	NA	NA	
Pendimethalin	7.44	0.50	0.25	ug/L	10.0	NA	74.4	65-115	NA	NA	
Phorate	2.84	1.0	0.58	ug/L	10.0	NA	28.4	30-100	NA	NA	
Prometon	8.06	0.50	0.29	ug/L	10.0	NA	80.6	70-120	NA	NA	
Propachlor	7.29	0.50	0.14	ug/L	10.0	NA	72.9	65-115	NA	NA	

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Minneapolis, MN 55435-4803

Client Ref: UMore Phase II
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Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0203 - EPA 3520C

Laboratory Control Sample (B9F0203-BS1)

Prepared: 06/10/09 Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Propazine	7.54	0.50	0.21	ug/L	10.0	NA	75.4	65-115	NA	NA	
Simazine	6.23	0.50	0.32	ug/L	10.0	NA	62.3	65-115	NA	NA	
Terbufos	3.18	1.0	0.54	ug/L	10.0	NA	31.8	30-100	NA	NA	
Triallate	7.31	0.50	0.34	ug/L	10.0	NA	73.1	65-115	NA	NA	
Trifluralin	7.32	0.50	0.21	ug/L	10.0	NA	73.2	65-115	NA	NA	
Surrogate: Atrazine-d5	8.51			ug/L	10.0	NA	85.1	50-120			
Surrogate: Diazinon-d10	8.41			ug/L	10.0	NA	84.1	50-120			

Batch B9F0265 - EPA 3545

Method Blank (B9F0265-BLK1)

Prepared: 06/15/09 Analyzed: 06/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	ND	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Alachlor	ND	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Atrazine	ND	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	ND	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Cyanazine	ND	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	ND	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Desethylatrazine	ND	0.040	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Dimethenamid	ND	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
EPTC	ND	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Ethalfuralin	ND	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Fonofos	ND	0.040	0.0040	mg/kg	NA	NA	NA	NA	NA	NA	
Metolachlor	ND	0.040	0.0030	mg/kg	NA	NA	NA	NA	NA	NA	
Metribuzin	ND	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Pendimethalin	ND	0.040	0.016	mg/kg	NA	NA	NA	NA	NA	NA	
Phorate	ND	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Prometon	ND	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Propachlor	ND	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Propazine	ND	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Simazine	ND	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Terbufos	ND	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Triallate	ND	0.040	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
Trifluralin	ND	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	0.127			mg/kg	0.333	NA	38.2	70-120			vn
Surrogate: Diazinon-d10	0.129			mg/kg	0.333	NA	38.8	50-120			vn



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 Client Contact: Ms. Kelly Neppel
 PO Number:

Work Order #: 0902797
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0265 - EPA 3545

Laboratory Control Sample (B9F0265-BS1)

Prepared: 06/15/09 Analyzed: 06/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.320	0.040	0.010	mg/kg	0.330	NA	96.8	70-120	NA	NA	
Alachlor	0.325	0.040	0.0070	mg/kg	0.330	NA	98.3	75-120	NA	NA	
Atrazine	0.308	0.040	0.010	mg/kg	0.330	NA	93.1	70-120	NA	NA	
Chlorpyrifos	0.315	0.040	0.0070	mg/kg	0.330	NA	95.3	70-120	NA	NA	
Cyanazine	0.334	0.040	0.0080	mg/kg	0.330	NA	101	70-120	NA	NA	
Deisopropylatrazine	0.299	0.040	0.0080	mg/kg	0.330	NA	90.6	70-120	NA	NA	
Desethylatrazine	0.337	0.040	0.011	mg/kg	0.330	NA	102	70-120	NA	NA	
Dimethenamid	0.317	0.040	0.0060	mg/kg	0.330	NA	96.1	70-120	NA	NA	
EPTC	0.235	0.040	0.0060	mg/kg	0.330	NA	71.0	60-115	NA	NA	
Ethalfuralin	0.326	0.040	0.014	mg/kg	0.330	NA	98.7	70-120	NA	NA	
Fonofos	0.308	0.040	0.0040	mg/kg	0.330	NA	93.1	70-120	NA	NA	
Metolachlor	0.321	0.040	0.0030	mg/kg	0.330	NA	97.3	70-120	NA	NA	
Metribuzin	0.329	0.040	0.0090	mg/kg	0.330	NA	99.6	75-120	NA	NA	
Pendimethalin	0.312	0.040	0.016	mg/kg	0.330	NA	94.5	75-120	NA	NA	
Phorate	0.287	0.040	0.0060	mg/kg	0.330	NA	86.9	70-115	NA	NA	
Prometon	0.333	0.040	0.0060	mg/kg	0.330	NA	101	75-120	NA	NA	
Propachlor	0.317	0.040	0.0090	mg/kg	0.330	NA	95.9	75-115	NA	NA	
Propazine	0.303	0.040	0.0070	mg/kg	0.330	NA	91.7	70-120	NA	NA	
Simazine	0.267	0.040	0.0090	mg/kg	0.330	NA	80.8	50-110	NA	NA	
Terbufos	0.297	0.040	0.0090	mg/kg	0.330	NA	89.9	70-115	NA	NA	
Triallate	0.301	0.040	0.0050	mg/kg	0.330	NA	91.2	70-120	NA	NA	
Trifluralin	0.304	0.040	0.014	mg/kg	0.330	NA	92.1	80-115	NA	NA	
Surrogate: Atrazine-d5	0.289			mg/kg	0.330	NA	87.5	70-120			
Surrogate: Diazinon-d10	0.292			mg/kg	0.330	NA	88.3	50-120			

Matrix Spike (B9F0265-MS1)

Source: 0902732-06

Prepared: 06/15/09 Analyzed: 06/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.498	0.073	0.018	mg/kg dry	0.607	ND	82.0	50-110	NA	NA	
Alachlor	0.494	0.073	0.013	mg/kg dry	0.607	ND	81.4	40-110	NA	NA	
Atrazine	0.522	0.073	0.018	mg/kg dry	0.607	ND	86.0	45-115	NA	NA	
Chlorpyrifos	0.416	0.073	0.013	mg/kg dry	0.607	ND	68.5	30-125	NA	NA	
Cyanazine	0.580	0.073	0.015	mg/kg dry	0.607	ND	95.6	30-125	NA	NA	
Deisopropylatrazine	0.512	0.073	0.015	mg/kg dry	0.607	ND	84.3	30-125	NA	NA	
Desethylatrazine	0.573	0.073	0.020	mg/kg dry	0.607	ND	94.4	30-125	NA	NA	
Dimethenamid	0.521	0.073	0.011	mg/kg dry	0.607	ND	85.8	55-110	NA	NA	
EPTC	0.428	0.073	0.011	mg/kg dry	0.607	ND	70.5	40-105	NA	NA	
Ethalfuralin	0.415	0.073	0.025	mg/kg dry	0.607	ND	68.4	30-125	NA	NA	
Fonofos	0.448	0.073	0.0073	mg/kg dry	0.607	ND	73.9	30-120	NA	NA	
Metolachlor	0.875	0.073	0.0055	mg/kg dry	0.607	ND	144	40-115	NA	NA	
Metribuzin	0.544	0.073	0.016	mg/kg dry	0.607	ND	89.7	40-115	NA	NA	
Pendimethalin	0.413	0.073	0.029	mg/kg dry	0.607	ND	68.0	30-115	NA	NA	
Phorate	0.403	0.073	0.011	mg/kg dry	0.607	ND	66.4	35-110	NA	NA	
Prometon	0.535	0.073	0.011	mg/kg dry	0.607	ND	88.1	50-115	NA	NA	
Propachlor	0.521	0.073	0.016	mg/kg dry	0.607	ND	85.9	55-110	NA	NA	



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Client Ref: UMore Phase II
 Client Contact: Ms. Kelly Neppel
 PO Number:

Work Order #: 0902797
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0265 - EPA 3545

Matrix Spike (B9F0265-MS1)

Source: 0902732-06

Prepared: 06/15/09 Analyzed: 06/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Propazine	0.498	0.073	0.013	mg/kg dry	0.607	ND	82.1	30-125	NA	NA	
Simazine	0.452	0.073	0.016	mg/kg dry	0.607	ND	74.4	40-115	NA	NA	
Terbufos	0.397	0.073	0.016	mg/kg dry	0.607	ND	65.4	30-125	NA	NA	
Triallate	0.392	0.073	0.0091	mg/kg dry	0.607	ND	64.6	30-110	NA	NA	
Trifluralin	0.410	0.073	0.025	mg/kg dry	0.607	ND	67.5	30-120	NA	NA	
Surrogate: Atrazine-d5	0.516			mg/kg dry	0.607	NA	85.0	70-120			
Surrogate: Diazinon-d10	0.495			mg/kg dry	0.607	NA	81.6	50-120			

Matrix Spike Duplicate (B9F0265-MSD1)

Source: 0902732-06

Prepared: 06/15/09 Analyzed: 06/17/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.513	0.072	0.018	mg/kg dry	0.602	ND	85.3	50-110	3.10	25	
Alachlor	0.534	0.072	0.013	mg/kg dry	0.602	ND	88.8	40-110	7.85	25	
Atrazine	0.489	0.072	0.018	mg/kg dry	0.602	ND	81.3	45-115	6.46	25	
Chlorpyrifos	0.487	0.072	0.013	mg/kg dry	0.602	ND	80.9	30-125	15.8	35	
Cyanazine	0.566	0.072	0.014	mg/kg dry	0.602	ND	94.0	30-125	2.53	25	
Deisopropylatrazine	0.499	0.072	0.014	mg/kg dry	0.602	ND	82.9	30-125	2.52	25	
Desethylatrazine	0.559	0.072	0.020	mg/kg dry	0.602	ND	92.9	30-125	2.45	25	
Dimethenamid	0.519	0.072	0.011	mg/kg dry	0.602	ND	86.2	55-110	0.379	25	
EPTC	0.422	0.072	0.011	mg/kg dry	0.602	ND	70.2	40-105	1.27	25	
Ethalfuralin	0.523	0.072	0.025	mg/kg dry	0.602	ND	86.9	30-125	23.0	35	
Fonofos	0.494	0.072	0.0072	mg/kg dry	0.602	ND	82.1	30-120	9.67	35	
Metolachlor	0.516	0.072	0.0054	mg/kg dry	0.602	ND	85.7	40-115	51.7	25	
Metribuzin	0.517	0.072	0.016	mg/kg dry	0.602	ND	85.9	40-115	5.17	25	
Pendimethalin	0.499	0.072	0.029	mg/kg dry	0.602	ND	82.9	30-115	18.9	35	
Phorate	0.459	0.072	0.011	mg/kg dry	0.602	ND	76.3	35-110	13.0	35	
Prometon	0.527	0.072	0.011	mg/kg dry	0.602	ND	87.5	50-115	1.53	25	
Propachlor	0.522	0.072	0.016	mg/kg dry	0.602	ND	86.7	55-110	0.0831	25	
Propazine	0.504	0.072	0.013	mg/kg dry	0.602	ND	83.7	30-125	1.09	25	
Simazine	0.450	0.072	0.016	mg/kg dry	0.602	ND	74.7	40-115	0.441	25	
Terbufos	0.474	0.072	0.016	mg/kg dry	0.602	ND	78.7	30-125	17.6	35	
Triallate	0.460	0.072	0.0090	mg/kg dry	0.602	ND	76.4	30-110	15.9	35	
Trifluralin	0.483	0.072	0.025	mg/kg dry	0.602	ND	80.3	30-120	16.5	35	
Surrogate: Atrazine-d5	0.493			mg/kg dry	0.602	NA	82.0	70-120			
Surrogate: Diazinon-d10	0.504			mg/kg dry	0.602	NA	83.7	50-120			

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PO Number:

Work Order #: 0902797
Project Mgr: Steven J. Albrecht
Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0210 - EPA 3510C

Method Blank (B9F0210-BLK1)

Prepared: 06/11/09 Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	ND	0.50	0.31	ug/L	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	ND	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D	ND	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D.B.	ND	0.50	0.15	ug/L	NA	NA	NA	NA	NA	NA	
Bentazon	ND	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Dicamba	ND	0.50	0.38	ug/L	NA	NA	NA	NA	NA	NA	
Dinoseb	ND	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
M.C.P.A.	ND	0.30	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	ND	0.50	0.39	ug/L	NA	NA	NA	NA	NA	NA	
Picloram	ND	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Triclopyr	ND	0.50	0.41	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	4.69			ug/L	5.00	NA	93.8	70-130			

Laboratory Control Sample (B9F0210-BS1)

Prepared: 06/11/09 Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.56	0.50	0.31	ug/L	5.00	NA	91.2	70-140	NA	NA	
2,4,5-T.P.	4.66	0.50	0.28	ug/L	5.00	NA	93.2	80-135	NA	NA	
2,4-D	4.53	0.50	0.26	ug/L	5.00	NA	90.6	80-135	NA	NA	
2,4-D.B.	4.90	0.50	0.15	ug/L	5.00	NA	98.0	80-140	NA	NA	
Bentazon	4.94	0.50	0.22	ug/L	5.00	NA	98.8	80-140	NA	NA	
Dicamba	4.52	0.50	0.38	ug/L	5.00	NA	90.4	80-130	NA	NA	
Dinoseb	3.01	0.50	0.34	ug/L	5.00	NA	60.2	40-125	NA	NA	
M.C.P.A.	4.58	0.30	0.29	ug/L	5.00	NA	91.6	80-130	NA	NA	
Pentachlorophenol	4.49	0.50	0.39	ug/L	5.00	NA	89.8	70-120	NA	NA	
Picloram	3.71	0.50	0.25	ug/L	5.00	NA	74.2	60-125	NA	NA	
Triclopyr	4.61	0.50	0.41	ug/L	5.00	NA	92.2	80-125	NA	NA	
Surrogate: D.C.A.A.	4.52			ug/L	5.00	NA	90.4	70-130			

Laboratory Control Sample Duplicate (B9F0210-BSD1)

Prepared: 06/11/09 Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.40	0.50	0.31	ug/L	5.00	NA	88.0	70-140	3.57	20	
2,4,5-T.P.	4.59	0.50	0.28	ug/L	5.00	NA	91.8	80-135	1.51	20	
2,4-D	4.42	0.50	0.26	ug/L	5.00	NA	88.4	80-135	2.46	20	
2,4-D.B.	4.77	0.50	0.15	ug/L	5.00	NA	95.4	80-140	2.69	20	
Bentazon	4.85	0.50	0.22	ug/L	5.00	NA	97.0	80-140	1.84	20	
Dicamba	4.48	0.50	0.38	ug/L	5.00	NA	89.6	80-130	0.889	20	
Dinoseb	2.55	0.50	0.34	ug/L	5.00	NA	51.0	40-125	16.5	20	
M.C.P.A.	4.45	0.30	0.29	ug/L	5.00	NA	89.0	80-130	2.88	20	
Pentachlorophenol	4.37	0.50	0.39	ug/L	5.00	NA	87.4	70-120	2.71	20	
Picloram	3.79	0.50	0.25	ug/L	5.00	NA	75.8	60-125	2.13	20	
Triclopyr	4.42	0.50	0.41	ug/L	5.00	NA	88.4	80-125	4.21	20	
Surrogate: D.C.A.A.	4.50			ug/L	5.00	NA	90.0	70-130			

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Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0210 - EPA 3510C

Laboratory Control Sample Duplicate (B9F0210-BSD1)

Prepared: 06/11/09 Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Duplicate (B9F0210-DUP1)				Source: 0902734-01			Prepared: 06/11/09 Analyzed: 06/12/09				
2,4,5-T	ND	0.52	0.32	ug/L	NA	ND	NA	NA	NA	25	
2,4,5-T.P.	ND	0.52	0.29	ug/L	NA	ND	NA	NA	NA	25	
2,4-D	ND	0.52	0.27	ug/L	NA	ND	NA	NA	NA	25	
2,4-D.B.	ND	0.52	0.15	ug/L	NA	ND	NA	NA	NA	25	
Bentazon	ND	0.52	0.23	ug/L	NA	ND	NA	NA	NA	25	
Dicamba	ND	0.52	0.39	ug/L	NA	ND	NA	NA	NA	25	
Dinoseb	ND	0.52	0.35	ug/L	NA	ND	NA	NA	NA	25	
M.C.P.A.	ND	0.31	0.30	ug/L	NA	ND	NA	NA	NA	25	
Pentachlorophenol	ND	0.52	0.40	ug/L	NA	ND	NA	NA	NA	25	
Picloram	ND	0.52	0.26	ug/L	NA	ND	NA	NA	NA	25	
Triclopyr	ND	0.52	0.42	ug/L	NA	ND	NA	NA	NA	25	
Surrogate: D.C.A.A.	4.47			ug/L	5.15	NA	86.8	70-130			

Batch B9F0427 - EPA 3545

Method Blank (B9F0427-BLK1)

Prepared: 06/22/09 Analyzed: 06/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	ND	0.049	0.0087	mg/kg	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	ND	0.049	0.0068	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D	ND	0.049	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D.B.	ND	0.049	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Bentazon	ND	0.049	0.0087	mg/kg	NA	NA	NA	NA	NA	NA	
Dicamba	ND	0.049	0.0078	mg/kg	NA	NA	NA	NA	NA	NA	
Dinoseb	ND	0.049	0.0049	mg/kg	NA	NA	NA	NA	NA	NA	
M.C.P.A.	ND	0.049	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	ND	0.049	0.0068	mg/kg	NA	NA	NA	NA	NA	NA	
Picloram	ND	0.049	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Triclopyr	ND	0.049	0.0058	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	0.120			mg/kg	0.162	NA	74.4	50-125			

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Client Ref: UMore Phase II
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Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0427 - EPA 3545

Laboratory Control Sample (B9F0427-BS1)

Prepared: 06/22/09 Analyzed: 06/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.121	0.050	0.0090	mg/kg	0.166	NA	72.8	60-125	NA	NA	
2,4,5-T.P.	0.131	0.050	0.0070	mg/kg	0.166	NA	78.6	65-125	NA	NA	
2,4-D	0.126	0.050	0.012	mg/kg	0.166	NA	75.8	60-125	NA	NA	
2,4-D.B.	0.136	0.050	0.011	mg/kg	0.166	NA	81.8	70-130	NA	NA	
Bentazon	0.153	0.050	0.0090	mg/kg	0.166	NA	92.0	65-125	NA	NA	
Dicamba	0.128	0.050	0.0080	mg/kg	0.166	NA	76.8	60-120	NA	NA	
Dinoseb	0.0875	0.050	0.0050	mg/kg	0.166	NA	52.6	30-120	NA	NA	
M.C.P.A.	0.120	0.050	0.014	mg/kg	0.166	NA	72.2	60-115	NA	NA	
Pentachlorophenol	0.122	0.050	0.0070	mg/kg	0.166	NA	73.2	50-120	NA	NA	
Picloram	0.102	0.050	0.011	mg/kg	0.166	NA	61.2	30-100	NA	NA	
Triclopyr	0.125	0.050	0.0060	mg/kg	0.166	NA	75.2	65-120	NA	NA	
Surrogate: D.C.A.A.	0.147			mg/kg	0.166	NA	88.6	50-125			

Laboratory Control Sample Duplicate (B9F0427-BSD1)

Prepared: 06/22/09 Analyzed: 06/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.118	0.050	0.0090	mg/kg	0.166	NA	71.4	60-125	2.47	25	
2,4,5-T.P.	0.128	0.050	0.0070	mg/kg	0.166	NA	77.4	65-125	2.07	25	
2,4-D	0.121	0.050	0.012	mg/kg	0.166	NA	73.2	60-125	4.02	25	
2,4-D.B.	0.135	0.050	0.011	mg/kg	0.166	NA	81.8	70-130	0.531	25	
Bentazon	0.151	0.050	0.0090	mg/kg	0.166	NA	91.0	65-125	1.62	25	
Dicamba	0.128	0.050	0.0080	mg/kg	0.166	NA	77.6	60-120	0.505	25	
Dinoseb	0.0867	0.050	0.0050	mg/kg	0.166	NA	52.4	30-120	0.912	25	
M.C.P.A.	0.125	0.050	0.014	mg/kg	0.166	NA	75.6	60-115	4.07	25	
Pentachlorophenol	0.122	0.050	0.0070	mg/kg	0.166	NA	74.0	50-120	0.556	25	
Picloram	0.0986	0.050	0.011	mg/kg	0.166	NA	59.6	30-100	3.18	25	
Triclopyr	0.126	0.050	0.0060	mg/kg	0.166	NA	76.2	65-120	0.790	25	
Surrogate: D.C.A.A.	0.137			mg/kg	0.166	NA	82.8	50-125			

Matrix Spike (B9F0427-MS1)

Source: 0902797-03

Prepared: 06/22/09 Analyzed: 06/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.113	0.052	0.0094	mg/kg dry	0.172	ND	66.0	30-130	NA	NA	
2,4,5-T.P.	0.126	0.052	0.0073	mg/kg dry	0.172	ND	73.6	40-130	NA	NA	
2,4-D	0.112	0.052	0.013	mg/kg dry	0.172	ND	65.4	30-125	NA	NA	
2,4-D.B.	0.137	0.052	0.012	mg/kg dry	0.172	ND	79.6	70-130	NA	NA	
Bentazon	0.142	0.052	0.0094	mg/kg dry	0.172	ND	83.0	65-125	NA	NA	
Dicamba	0.118	0.052	0.0084	mg/kg dry	0.172	ND	69.0	30-120	NA	NA	
Dinoseb	0.0834	0.052	0.0052	mg/kg dry	0.172	ND	48.6	30-120	NA	NA	
M.C.P.A.	0.120	0.052	0.015	mg/kg dry	0.172	ND	70.2	30-120	NA	NA	
Pentachlorophenol	0.124	0.052	0.0073	mg/kg dry	0.172	ND	72.2	50-120	NA	NA	
Picloram	ND	0.052	0.012	mg/kg dry	0.172	ND	NA	30-100	NA	NA	
Triclopyr	0.124	0.052	0.0063	mg/kg dry	0.172	ND	72.0	30-120	NA	NA	
Surrogate: D.C.A.A.	0.134			mg/kg dry	0.172	NA	78.2	50-125			



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Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0427 - EPA 3545

Matrix Spike (B9F0427-MS1)	Source: 0902797-03	Prepared: 06/22/09	Analyzed: 06/29/09								
Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Matrix Spike Duplicate (B9F0427-MSD1)

		Source: 0902797-03		Prepared: 06/22/09	Analyzed: 06/29/09						
Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.102	0.052	0.0094	mg/kg dry	0.173	ND	58.8	30-130	11.0	25	
2,4,5-T.P.	0.122	0.052	0.0073	mg/kg dry	0.173	ND	70.6	40-130	3.57	25	
2,4-D	0.110	0.052	0.013	mg/kg dry	0.173	ND	63.6	30-125	2.20	25	
2,4-D.B.	0.134	0.052	0.012	mg/kg dry	0.173	ND	77.8	70-130	1.70	25	
Bentazon	0.143	0.052	0.0094	mg/kg dry	0.173	ND	82.8	65-125	0.349	25	
Dicamba	0.111	0.052	0.0084	mg/kg dry	0.173	ND	64.4	30-120	6.31	25	
Dinoseb	0.0756	0.052	0.0052	mg/kg dry	0.173	ND	43.8	30-120	9.80	25	
M.C.P.A.	0.112	0.052	0.015	mg/kg dry	0.173	ND	65.0	30-120	7.10	25	
Pentachlorophenol	0.121	0.052	0.0073	mg/kg dry	0.173	ND	70.0	50-120	2.50	25	
Picloram	ND	0.052	0.012	mg/kg dry	0.173	ND	NA	30-100	NA	25	
Triclopyr	0.117	0.052	0.0063	mg/kg dry	0.173	ND	68.0	30-120	5.12	25	
Surrogate: D.C.A.A.	0.127			mg/kg dry	0.173	NA	73.6	50-125			

BRAUN INTERTEC

11001 Hampshire Ave. S.
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Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Phase II
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0902797
Project Mgr: Steven J. Albrecht
Account ID: B01058

0902797

Chain of Custody
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number
23/19 - B.O.S. S.O.C.35.0

Project Name
UMore Phase II No 28201

Sample Identification	Collection		Matrix		Type
	Date	Time	Water	Soil	Grab Comp. OC
1. S0C1-GP1	6-8-09	1100	X		X
2. GP-DUP-1	6-8-09	1105	X		X
3. S0C1-GP1,0-4	6-8-09	1330	X		X
4. S0C1-GP2,0-4	6-8-09	1400	X		X
5. S0C6-GP6	6-8-09	1600	X		X
6.					
7.					
8.					
9.					
10.					
11.					
12.					

Number of Containers/Preservative		COC 1 of 1
Water	Soil	
Volatile Organics (Pres.) *1		Project Manager: SME Project Contact: Kelly Neppi Sampled by: ESC Laboratory: Braun Remarks: Method 8270C CA# 1.9°C +TB COOLER 2: 2.3°C +ICE
Semivolatile Organics *2		
Dissolved Metals (HNO ₃)		
Total Metals (HNO ₃)		
General (Unpreserved) *3		
Cyanide (NaOH)		
Nutrients (H ₂ SO ₄) *4		
Oil and Grease (H ₂ SO ₄)		
Sulfide (Zn Acetate)		
Methane		
Bacteria (Na ₂ S ₂ O ₃)		
DRO (HCl)		
Pesticides List 1+2		
VOCs (2-oz tared MeOH) *1		
GRQ, BTEX (2-oz tared MeOH) *1		
DRO (2-oz tared) - 25 grams		
Metals (2-oz unpreserved)		
SVOCs (2 or 4-oz unpres.) *2		
% Moisture (plastic vial, unpres.)		
Pesticides List 1+2		
Total No. of Containers		

Common Parameter/Container - Preservation Key
 *1 - Volatile Organics = BTEX, GRQ TPH, Full List
 *2 - Semivolatile Organics = PAHs, PCB, Dioxins, Full List, Herbicide/Pesticide/PCBs
 *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
 *4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By: <u>Kelly Neppi</u>	On Ice? <input checked="" type="checkbox"/> N	Date: <u>6-9-09</u>	Time: <u>0930</u>	Received by: <u>Chu</u>	Date: <u>6/10/09</u>	Time: <u>1816</u>
Relinquished By:	On Ice? <input type="checkbox"/> Y	Date:	Time:	Received by:	Date:	Time:
Samples Shipped Via: <input type="checkbox"/> Air Freight <input type="checkbox"/> Federal Express <input type="checkbox"/> Sampler <input type="checkbox"/> Other				Air Bill Number:		

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

F:\EQUIS\GMS\Chain of Custody Form - RLD Rev. 07/03/03

BRAUN **INTERTEC**

Braun Intertec Corporation
11001 Hampshire Avenue S.
Minneapolis, MN 55438

Phone: 952.995.2000
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Web: braunintertec.com

Ms. Kelly Nepl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

August 12, 2009

Work Order #: 0902843
(Revised)

RE: 23/19-B05.07 SOC350

Dear Kelly Nepl:

Braun Intertec Corporation received samples for the project identified above on June 11, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,



Steven J. Albrecht
Associate Principal



Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117

Wisconsin DNR: 999462640

Providing engineering and environmental solutions since 1957

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803Client Ref: 23/19-B05.07 SOC350
Client Contact: Ms. Kelly Neppel
PO Number:Work Order #: 0902843
Project Mgr: Steven J. Albrecht
Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a “story” about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini “case narrative” that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each “cooler” is identified and the conditions associated with that cooler are documented. A “cooler” is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be “Total Petroleum Hydrocarbons.” Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an “M” (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word “dry” will appear next to the units. If the word “dry” does not appear then the result is “as received.”

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up as bolded. They are considered “hits.” The MDL is a statistically derived number that indicates, with high confidence, that an analyte can be detected above noise level. If a result is less than this value it is marked as “ND” for “Non-Detect.” If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a “J” flag denoting that it has been detected but that the result is an estimate. This is consistent with the *CLP Statement of Work* and the *National Functional Guidelines*.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: 23/19-B05.07 SOC350
Client Contact: Ms. Kelly Neopl
PO Number:

Work Order #: 0902843
Project Mgr: Steven J. Albrecht
Account ID: B01058

Qualifiers and Abbreviations

sd	See case narrative section for further information.
qo	The relative percent difference (RPD) was outside of laboratory control limits for the matrix spike (MS) and matrix spike duplicate (MSD) samples.
qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
J	Detected but below the Method Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
gw	The sample was extracted 1 day past the method specified holding time.
gp	The relative percent difference (RPD) for the laboratory control sample and laboratory control sample duplicate is outside of laboratory control limits.
go	The laboratory control sample recovery is outside of laboratory control limits.
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound



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Client Ref: 23/19-B05.07 SOC350
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902843
Project Mgr: Steven J. Albrecht
Account ID: B01058

Case Narrative

Sample SOC3-GP3 was received 6-12-09 with a different work order.

The list 1 analyses for this work order was reextracted due to equipment failure in the extraction apparatus. Samples -01 and -03 were one day past the recommended holding when reextracted.

One of the laboratory control samples for List 1 was inadvertently spiked with double the normal amount standard. The recoveries reported are corrected but the relative per cent difference can't be reported for that batch. The recoveries of all of the compounds for the laboratory control sample and laboratory control sample duplicate were within limits.



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Client Ref: 23/19-B05.07 SOC350
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902843
Project Mgr: Steven J. Albrecht
Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC3-GP2	0902843-01	Water	06/09/09 09:00	06/11/09 10:23
SOC1-GP3, 0-4'	0902843-02	Soil	06/09/09 12:00	06/11/09 10:23
SOC1-GP3	0902843-03	Water	06/09/09 14:00	06/11/09 10:23



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Client Ref: 23/19-B05.07 SOC350
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902843
Project Mgr: Steven J. Albrecht
Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler #1

Temperature: 1.4 °C
COC Included: Yes
Custody Seals Used: No
Custody Seals Intact: NA

Received on Ice: Yes
Hand Delivered by Sampler: No
Sufficient Sample Provided: Yes
Headspace Present (VOC): No

Preservation Confirmed: No
Temperature Blank: Yes
COC Complete: Yes
COC & Labels Agree: Yes

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: 23/19-B05.07 SOC350
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902843
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC3-GP2
0902843-01 (Water)
6/9/09 9:00

Neutral Extractable Pesticides (MDA List 1)

gw

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.65	0.32	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Alachlor	ND	0.65	0.25	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Atrazine	0.39 J	0.65	0.31	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Chlorpyrifos	ND	0.65	0.44	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Cyanazine	ND	0.65	0.63	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Deisopropylatrazine	ND	0.65	0.33	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Desethylatrazine	ND	0.65	0.38	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Dimethenamid	ND	0.65	0.31	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
EPTC	ND	0.65	0.28	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Ethalfuralin	ND	0.65	0.61	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Fonofos	ND	0.65	0.38	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Metolachlor	ND	0.65	0.36	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Metribuzin	ND	0.65	0.45	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Pendimethalin	ND	0.65	0.33	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Phorate	ND	1.3	0.76	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	go, gp, qo
Prometon	ND	0.65	0.38	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Propachlor	ND	0.65	0.18	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Propazine	ND	0.65	0.27	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Simazine	ND	0.65	0.41	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Terbufos	ND	1.3	0.71	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	go, gp, qo
Triallate	ND	0.65	0.44	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Trifluralin	ND	0.65	0.28	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Surrogate: Atrazine-d5	83.6 %	Limits: 50-120%			B9F0350	6/17/09	6/23/09	EPA 8270C	
Surrogate: Diazinon-d10	85.7 %	Limits: 50-120%			B9F0350	6/17/09	6/23/09	EPA 8270C	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.65	0.41	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4,5-T.P.	ND	0.65	0.37	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4-D	ND	0.65	0.34	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4-D.B.	ND	0.65	0.19	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Bentazon	ND	0.65	0.29	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Dicamba	ND	0.65	0.49	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Dinoseb	ND	0.65	0.45	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
M.C.P.A.	ND	0.39	0.38	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: 23/19-B05.07 SOC350 Client Contact: Ms. Kelly Nepl PO Number:	Work Order #: 0902843 Project Mgr: Steven J. Albrecht Account ID: B01058
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SOC3-GP2
0902843-01 (Water)
6/9/09 9:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Pentachlorophenol	ND	0.65	0.51	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Picloram	ND	0.65	0.33	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	gp
Triclopyr	ND	0.65	0.53	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	go
<i>Surrogate: D.C.A.A.</i>	88.8 %	<i>Limits: 65-130%</i>			<i>B9F0321</i>	<i>6/16/09</i>	<i>6/23/09</i>	<i>EPA 8270C</i>	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: 23/19-B05.07 SOC350
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0902843
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC1-GP3, 0-4'

0902843-02 (Soil)

6/9/09 12:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	81	0.050	0.010	% Wt	B9F0243	6/12/09	6/12/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

sd

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.049	0.012	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Alachlor	ND	0.049	0.0086	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Atrazine	ND	0.049	0.012	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Chlorpyrifos	ND	0.049	0.0086	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Cyanazine	ND	0.049	0.0099	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Deisopropylatrazine	ND	0.049	0.0099	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Desethylatrazine	ND	0.049	0.014	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Dimethenamid	ND	0.049	0.0074	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
EPTC	ND	0.049	0.0074	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Ethalfuralin	ND	0.049	0.017	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Fonofos	ND	0.049	0.0049	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metolachlor	ND	0.049	0.0037	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metribuzin	ND	0.049	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Pendimethalin	ND	0.049	0.020	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Phorate	ND	0.049	0.0074	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Prometon	ND	0.049	0.0074	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propachlor	ND	0.049	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propazine	ND	0.049	0.0086	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Simazine	ND	0.049	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Terbufos	ND	0.049	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Triallate	ND	0.049	0.0062	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Trifluralin	ND	0.049	0.017	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Atrazine-d5	81.6 %	Limits: 70-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Diazinon-d10	67.1 %	Limits: 50-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: 23/19-B05.07 SOC350 Client Contact: Ms. Kelly Nepl PO Number:	Work Order #: 0902843 Project Mgr: Steven J. Albrecht Account ID: B01058
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SOC1-GP3, 0-4'
0902843-02 (Soil)
6/9/09 12:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.085	0.015	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
2,4,5-T.P.	ND	0.085	0.012	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
2,4-D	ND	0.085	0.020	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
2,4-D.B.	ND	0.085	0.019	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Bentazon	ND	0.085	0.015	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Dicamba	ND	0.085	0.014	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Dinoseb	ND	0.085	0.0085	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
M.C.P.A.	ND	0.085	0.024	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Pentachlorophenol	ND	0.085	0.012	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Picloram	ND	0.085	0.019	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	qn
Triclopyr	ND	0.085	0.010	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Surrogate: D.C.A.A.	82.4 %	Limits: 50-125%			B9F0427	6/22/09	6/29/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: 23/19-B05.07 SOC350
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902843
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC1-GP3
0902843-03 (Water)
6/9/09 14:00

Neutral Extractable Pesticides (MDA List 1)

gw

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.77	0.38	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Alachlor	ND	0.77	0.29	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Atrazine	ND	0.77	0.36	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Chlorpyrifos	ND	0.77	0.52	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Cyanazine	ND	0.77	0.74	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Deisopropylatrazine	ND	0.77	0.40	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Desethylatrazine	ND	0.77	0.45	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Dimethenamid	ND	0.77	0.36	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
EPTC	ND	0.77	0.33	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Ethalfuralin	ND	0.77	0.72	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Fonofos	ND	0.77	0.45	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Metolachlor	ND	0.77	0.42	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Metribuzin	ND	0.77	0.54	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Pendimethalin	ND	0.77	0.39	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Phorate	ND	1.5	0.90	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	go, gp, qo
Prometon	ND	0.77	0.45	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Propachlor	ND	0.77	0.22	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Propazine	ND	0.77	0.32	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Simazine	ND	0.77	0.49	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Terbufos	ND	1.5	0.84	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	go, gp, qo
Triallate	ND	0.77	0.52	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Trifluralin	ND	0.77	0.33	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Surrogate: Atrazine-d5	75.8 %	Limits: 50-120%			B9F0350	6/17/09	6/23/09	EPA 8270C	
Surrogate: Diazinon-d10	78.9 %	Limits: 50-120%			B9F0350	6/17/09	6/23/09	EPA 8270C	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.76	0.47	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4,5-T.P.	ND	0.76	0.43	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4-D	ND	0.76	0.40	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4-D.B.	ND	0.76	0.23	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Bentazon	ND	0.76	0.34	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Dicamba	ND	0.76	0.58	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Dinoseb	ND	0.76	0.52	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
M.C.P.A.	ND	0.45	0.44	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: 23/19-B05.07 SOC350 Client Contact: Ms. Kelly Nepl PO Number:	Work Order #: 0902843 Project Mgr: Steven J. Albrecht Account ID: B01058
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SOC1-GP3
0902843-03 (Water)
6/9/09 14:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Pentachlorophenol	ND	0.76	0.59	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Picloram	ND	0.76	0.38	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	gp
Triclopyr	ND	0.76	0.62	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	go
Surrogate: D.C.A.A.	80.4 %	Limits: 65-130%			B9F0321	6/16/09	6/23/09	EPA 8270C	



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Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: 23/19-B05.07 SOC350 Client Contact: Ms. Kelly Nepl PO Number:	Work Order #: 0902843 Project Mgr: Steven J. Albrecht Account ID: B01058
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Classical Chemistry Parameters - Quality Control

Batch B9F0243 - % Solids

Method Blank (B9F0243-BLK1)

Prepared & Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	ND	0.050	0.010	% Wt	NA	NA	NA	NA	NA	NA	

Duplicate (B9F0243-DUP1)

Source: 0902833-01

Prepared & Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	70.3	0.050	0.010	% Wt	NA	68.5	NA	NA	2.65	20	

Standard Reference Material (B9F0243-SRM1)

Prepared & Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	86.6			% Wt	91.3	NA	94.8	90-110	NA	NA	



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Work Order #: 0902843
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0342 - EPA 3545

Method Blank (B9F0342-BLK1)

Prepared: 06/17/09 Analyzed: 06/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	ND	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Alachlor	ND	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Atrazine	ND	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	ND	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Cyanazine	ND	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	ND	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Desethylatrazine	ND	0.040	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Dimethenamid	ND	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
EPTC	ND	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Ethalfuralin	ND	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Fonofos	ND	0.040	0.0040	mg/kg	NA	NA	NA	NA	NA	NA	
Metolachlor	ND	0.040	0.0030	mg/kg	NA	NA	NA	NA	NA	NA	
Metribuzin	ND	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Pendimethalin	ND	0.040	0.016	mg/kg	NA	NA	NA	NA	NA	NA	
Phorate	ND	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Prometon	ND	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Propachlor	ND	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Propazine	ND	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Simazine	ND	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Terbufos	ND	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Triallate	ND	0.040	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
Trifluralin	ND	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	0.253			mg/kg	0.328	NA	77.2	70-120			
Surrogate: Diazinon-d10	0.260			mg/kg	0.328	NA	79.2	50-120			

Laboratory Control Sample (B9F0342-BS1)

Prepared: 06/17/09 Analyzed: 06/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.666	0.040	0.010	mg/kg	0.661	NA	101	70-120	NA	NA	
Alachlor	0.661	0.040	0.0070	mg/kg	0.661	NA	100	75-120	NA	NA	
Atrazine	0.640	0.040	0.010	mg/kg	0.661	NA	96.8	70-120	NA	NA	
Chlorpyrifos	0.641	0.040	0.0070	mg/kg	0.661	NA	97.1	70-120	NA	NA	
Cyanazine	0.681	0.040	0.0080	mg/kg	0.661	NA	103	70-120	NA	NA	
Deisopropylatrazine	0.616	0.040	0.0080	mg/kg	0.661	NA	93.3	70-120	NA	NA	
Desethylatrazine	0.679	0.040	0.011	mg/kg	0.661	NA	103	70-120	NA	NA	
Dimethenamid	0.652	0.040	0.0060	mg/kg	0.661	NA	98.6	70-120	NA	NA	
EPTC	0.521	0.040	0.0060	mg/kg	0.661	NA	79.0	60-115	NA	NA	
Ethalfuralin	0.688	0.040	0.014	mg/kg	0.661	NA	104	70-120	NA	NA	
Fonofos	0.642	0.040	0.0040	mg/kg	0.661	NA	97.2	70-120	NA	NA	
Metolachlor	0.662	0.040	0.0030	mg/kg	0.661	NA	100	70-120	NA	NA	
Metribuzin	0.666	0.040	0.0090	mg/kg	0.661	NA	101	75-120	NA	NA	
Pendimethalin	0.629	0.040	0.016	mg/kg	0.661	NA	95.2	75-120	NA	NA	
Phorate	0.639	0.040	0.0060	mg/kg	0.661	NA	96.8	70-115	NA	NA	
Prometon	0.690	0.040	0.0060	mg/kg	0.661	NA	104	75-120	NA	NA	
Propachlor	0.660	0.040	0.0090	mg/kg	0.661	NA	99.9	75-115	NA	NA	



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Barr Engineering Company
 4700 West 77th Street
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Client Ref: 23/19-B05.07 SOC350
 Client Contact: Ms. Kelly Neppel
 PO Number:

Work Order #: 0902843
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0342 - EPA 3545

Laboratory Control Sample (B9F0342-BS1)

Prepared: 06/17/09 Analyzed: 06/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Propazine	0.622	0.040	0.0070	mg/kg	0.661	NA	94.1	70-120	NA	NA	
Simazine	0.543	0.040	0.0090	mg/kg	0.661	NA	82.2	50-110	NA	NA	
Terbufos	0.612	0.040	0.0090	mg/kg	0.661	NA	92.7	70-115	NA	NA	
Triallate	0.622	0.040	0.0050	mg/kg	0.661	NA	94.2	70-120	NA	NA	
Trifluralin	0.617	0.040	0.014	mg/kg	0.661	NA	93.4	80-115	NA	NA	
Surrogate: Atrazine-d5	0.295			mg/kg	0.330	NA	89.3	70-120			
Surrogate: Diazinon-d10	0.299			mg/kg	0.330	NA	90.4	50-120			

Matrix Spike (B9F0342-MS1)

Source: 0902879-07

Prepared: 06/17/09 Analyzed: 06/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.300	0.051	0.013	mg/kg dry	0.419	ND	71.6	50-110	NA	NA	
Alachlor	0.307	0.051	0.0089	mg/kg dry	0.419	ND	73.3	40-110	NA	NA	
Atrazine	0.324	0.051	0.013	mg/kg dry	0.419	ND	77.5	45-115	NA	NA	
Chlorpyrifos	0.236	0.051	0.0089	mg/kg dry	0.419	ND	56.3	30-125	NA	NA	
Cyanazine	0.353	0.051	0.010	mg/kg dry	0.419	ND	84.4	30-125	NA	NA	
Deisopropylatrazine	0.305	0.051	0.010	mg/kg dry	0.419	ND	72.9	30-125	NA	NA	
Desethylatrazine	0.363	0.051	0.014	mg/kg dry	0.419	ND	86.7	30-125	NA	NA	
Dimethenamid	0.313	0.051	0.0076	mg/kg dry	0.419	ND	74.8	55-110	NA	NA	
EPTC	0.256	0.051	0.0076	mg/kg dry	0.419	ND	61.2	40-105	NA	NA	
Ethalfuralin	0.233	0.051	0.018	mg/kg dry	0.419	ND	55.6	30-125	NA	NA	
Fonofos	0.264	0.051	0.0051	mg/kg dry	0.419	ND	63.1	30-120	NA	NA	
Metolachlor	0.364	0.051	0.0038	mg/kg dry	0.419	0.0809	67.7	40-115	NA	NA	
Metribuzin	0.298	0.051	0.011	mg/kg dry	0.419	ND	71.3	40-115	NA	NA	
Pendimethalin	0.243	0.051	0.020	mg/kg dry	0.419	0.0263	51.8	30-115	NA	NA	
Phorate	0.239	0.051	0.0076	mg/kg dry	0.419	ND	57.1	35-110	NA	NA	
Prometon	0.310	0.051	0.0076	mg/kg dry	0.419	ND	74.0	50-115	NA	NA	
Propachlor	0.321	0.051	0.011	mg/kg dry	0.419	ND	76.8	55-110	NA	NA	
Propazine	0.298	0.051	0.0089	mg/kg dry	0.419	ND	71.1	30-125	NA	NA	
Simazine	0.277	0.051	0.011	mg/kg dry	0.419	ND	66.1	40-115	NA	NA	
Terbufos	0.222	0.051	0.011	mg/kg dry	0.419	ND	53.1	30-125	NA	NA	
Triallate	0.223	0.051	0.0064	mg/kg dry	0.419	ND	53.4	30-110	NA	NA	
Trifluralin	0.481	0.051	0.018	mg/kg dry	0.419	0.297	43.8	30-120	NA	NA	
Surrogate: Atrazine-d5	0.304			mg/kg dry	0.419	NA	72.7	70-120			
Surrogate: Diazinon-d10	0.238			mg/kg dry	0.419	NA	56.8	50-120			



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Barr Engineering Company
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Client Ref: 23/19-B05.07 SOC350
 Client Contact: Ms. Kelly Neppel
 PO Number:

Work Order #: 0902843
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0342 - EPA 3545

Matrix Spike Duplicate (B9F0342-MSD1)

Source: 0902879-07

Prepared: 06/17/09 Analyzed: 06/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.318	0.051	0.013	mg/kg dry	0.423	ND	75.2	50-110	5.93	25	
Alachlor	0.330	0.051	0.0089	mg/kg dry	0.423	ND	78.0	40-110	7.24	25	
Atrazine	0.356	0.051	0.013	mg/kg dry	0.423	ND	84.1	45-115	9.19	25	
Chlorpyrifos	0.240	0.051	0.0089	mg/kg dry	0.423	ND	56.8	30-125	1.91	35	
Cyanazine	0.388	0.051	0.010	mg/kg dry	0.423	ND	91.7	30-125	9.31	25	
Deisopropylatrazine	0.339	0.051	0.010	mg/kg dry	0.423	ND	80.2	30-125	10.6	25	
Desethylatrazine	0.403	0.051	0.014	mg/kg dry	0.423	ND	95.2	30-125	10.4	25	
Dimethenamid	0.340	0.051	0.0076	mg/kg dry	0.423	ND	80.3	55-110	8.12	25	
EPTC	0.281	0.051	0.0076	mg/kg dry	0.423	ND	66.5	40-105	9.32	25	
Ethalfuralin	0.247	0.051	0.018	mg/kg dry	0.423	ND	58.4	30-125	5.94	35	
Fonofos	0.282	0.051	0.0051	mg/kg dry	0.423	ND	66.7	30-120	6.57	35	
Metolachlor	0.399	0.051	0.0038	mg/kg dry	0.423	0.0809	75.3	40-115	9.18	25	
Metribuzin	0.316	0.051	0.011	mg/kg dry	0.423	ND	74.8	40-115	5.82	25	
Pendimethalin	0.255	0.051	0.020	mg/kg dry	0.423	0.0263	54.0	30-115	4.58	35	
Phorate	0.260	0.051	0.0076	mg/kg dry	0.423	ND	61.4	35-110	8.28	35	
Prometon	0.324	0.051	0.0076	mg/kg dry	0.423	ND	76.6	50-115	4.48	25	
Propachlor	0.358	0.051	0.011	mg/kg dry	0.423	ND	84.6	55-110	10.7	25	
Propazine	0.331	0.051	0.0089	mg/kg dry	0.423	ND	78.4	30-125	10.8	25	
Simazine	0.310	0.051	0.011	mg/kg dry	0.423	ND	73.2	40-115	11.2	25	
Terbufos	0.238	0.051	0.011	mg/kg dry	0.423	ND	56.3	30-125	6.88	35	
Triallate	0.235	0.051	0.0064	mg/kg dry	0.423	ND	55.5	30-110	4.88	35	
Trifluralin	0.512	0.051	0.018	mg/kg dry	0.423	0.297	50.8	30-120	6.28	35	
Surrogate: Atrazine-d5	0.341			mg/kg dry	0.423	NA	80.7	70-120			
Surrogate: Diazinon-d10	0.300			mg/kg dry	0.423	NA	70.9	50-120			

Batch B9F0350 - EPA 3520C

Method Blank (B9F0350-BLK1)

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	ND	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Alachlor	ND	0.50	0.19	ug/L	NA	NA	NA	NA	NA	NA	
Atrazine	ND	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	ND	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Cyanazine	ND	0.50	0.48	ug/L	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	ND	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
Desethylatrazine	ND	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Dimethenamid	ND	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
EPTC	ND	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Ethalfuralin	ND	0.50	0.47	ug/L	NA	NA	NA	NA	NA	NA	
Fonofos	ND	0.50	0.30	ug/L	NA	NA	NA	NA	NA	NA	
Metolachlor	ND	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
Metribuzin	ND	0.50	0.35	ug/L	NA	NA	NA	NA	NA	NA	
Pendimethalin	ND	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Phorate	ND	1.0	0.58	ug/L	NA	NA	NA	NA	NA	NA	

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Client Ref: 23/19-B05.07 SOC350
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902843
Project Mgr: Steven J. Albrecht
Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0350 - EPA 3520C

Method Blank (B9F0350-BLK1)

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	ND	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Propachlor	ND	0.50	0.14	ug/L	NA	NA	NA	NA	NA	NA	
Propazine	ND	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Simazine	ND	0.50	0.32	ug/L	NA	NA	NA	NA	NA	NA	
Terbufos	ND	1.0	0.54	ug/L	NA	NA	NA	NA	NA	NA	
Triallate	ND	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Trifluralin	ND	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
<i>Surrogate: Atrazine-d5</i>	9.41			ug/L	10.0	NA	94.1	50-120			
<i>Surrogate: Diazinon-d10</i>	8.87			ug/L	10.0	NA	88.7	50-120			

Laboratory Control Sample (B9F0350-BS1)

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	9.15	0.50	0.25	ug/L	10.0	NA	91.5	65-115	NA	NA	
Alachlor	9.01	0.50	0.19	ug/L	10.0	NA	90.1	65-115	NA	NA	
Atrazine	8.93	0.50	0.24	ug/L	10.0	NA	89.3	65-115	NA	NA	
Chlorpyrifos	8.76	0.50	0.34	ug/L	10.0	NA	87.6	65-115	NA	NA	
Cyanazine	10.5	0.50	0.48	ug/L	10.0	NA	105	65-115	NA	NA	
Deisopropylatrazine	8.02	0.50	0.26	ug/L	10.0	NA	80.2	65-115	NA	NA	
Desethylatrazine	9.52	0.50	0.29	ug/L	10.0	NA	95.2	65-115	NA	NA	
Dimethenamid	8.84	0.50	0.24	ug/L	10.0	NA	88.4	65-115	NA	NA	
EPTC	5.27	0.50	0.22	ug/L	10.0	NA	52.7	50-110	NA	NA	
Ethalfuralin	8.01	0.50	0.47	ug/L	10.0	NA	80.1	65-115	NA	NA	
Fonofos	7.16	0.50	0.30	ug/L	10.0	NA	71.6	55-115	NA	NA	
Metolachlor	9.43	0.50	0.28	ug/L	10.0	NA	94.3	70-120	NA	NA	
Metribuzin	9.33	0.50	0.35	ug/L	10.0	NA	93.3	70-120	NA	NA	
Pendimethalin	8.51	0.50	0.25	ug/L	10.0	NA	85.1	65-115	NA	NA	
Phorate	0.940 J	1.0	0.58	ug/L	10.0	NA	9.40	30-100	NA	NA	
Prometon	9.50	0.50	0.29	ug/L	10.0	NA	95.0	70-120	NA	NA	
Propachlor	7.67	0.50	0.14	ug/L	10.0	NA	76.7	65-115	NA	NA	
Propazine	8.65	0.50	0.21	ug/L	10.0	NA	86.5	65-115	NA	NA	
Simazine	7.92	0.50	0.32	ug/L	10.0	NA	79.2	65-115	NA	NA	
Terbufos	1.21	1.0	0.54	ug/L	10.0	NA	12.1	30-100	NA	NA	
Triallate	7.68	0.50	0.34	ug/L	10.0	NA	76.8	65-115	NA	NA	
Trifluralin	7.34	0.50	0.21	ug/L	10.0	NA	73.4	65-115	NA	NA	
<i>Surrogate: Atrazine-d5</i>	8.36			ug/L	10.0	NA	83.6	50-120			
<i>Surrogate: Diazinon-d10</i>	8.02			ug/L	10.0	NA	80.2	50-120			

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Client Ref: 23/19-B05.07 SOC350
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902843
Project Mgr: Steven J. Albrecht
Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0350 - EPA 3520C

Laboratory Control Sample Duplicate (B9F0350-BSD1)

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	9.05	0.50	0.25	ug/L	10.0	NA	90.5	65-115	1.10	25	
Alachlor	8.94	0.50	0.19	ug/L	10.0	NA	89.4	65-115	0.780	25	
Atrazine	8.63	0.50	0.24	ug/L	10.0	NA	86.3	65-115	3.42	25	
Chlorpyrifos	8.86	0.50	0.34	ug/L	10.0	NA	88.6	65-115	1.14	25	
Cyanazine	9.85	0.50	0.48	ug/L	10.0	NA	98.5	65-115	6.29	25	
Deisopropylatrazine	7.65	0.50	0.26	ug/L	10.0	NA	76.5	65-115	4.72	25	
Desethylatrazine	9.26	0.50	0.29	ug/L	10.0	NA	92.6	65-115	2.77	25	
Dimethenamid	8.84	0.50	0.24	ug/L	10.0	NA	88.4	65-115	0.00	25	
EPTC	6.23	0.50	0.22	ug/L	10.0	NA	62.3	50-110	16.7	30	
Ethalfuralin	8.74	0.50	0.47	ug/L	10.0	NA	87.4	65-115	8.72	30	
Fonofos	8.38	0.50	0.30	ug/L	10.0	NA	83.8	55-115	15.7	30	
Metolachlor	9.02	0.50	0.28	ug/L	10.0	NA	90.2	70-120	4.44	25	
Metribuzin	8.94	0.50	0.35	ug/L	10.0	NA	89.4	70-120	4.27	25	
Pendimethalin	8.16	0.50	0.25	ug/L	10.0	NA	81.6	65-115	4.20	25	
Phorate	4.76	1.0	0.58	ug/L	10.0	NA	47.6	30-100	134	30	
Prometon	9.22	0.50	0.29	ug/L	10.0	NA	92.2	70-120	2.99	30	
Propachlor	8.49	0.50	0.14	ug/L	10.0	NA	84.9	65-115	10.1	30	
Propazine	8.49	0.50	0.21	ug/L	10.0	NA	84.9	65-115	1.87	25	
Simazine	7.60	0.50	0.32	ug/L	10.0	NA	76.0	65-115	4.12	25	
Terbufos	4.95	1.0	0.54	ug/L	10.0	NA	49.5	30-100	121	30	
Triallate	8.08	0.50	0.34	ug/L	10.0	NA	80.8	65-115	5.08	25	
Trifluralin	8.11	0.50	0.21	ug/L	10.0	NA	81.1	65-115	9.97	25	
Surrogate: Atrazine-d5	8.17			ug/L	10.0	NA	81.7	50-120			
Surrogate: Diazinon-d10	8.28			ug/L	10.0	NA	82.8	50-120			

Matrix Spike (B9F0350-MS1)

Source: 0902881-03RE1

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.8	0.63	0.32	ug/L	12.7	ND	85.7	65-115	NA	NA	
Alachlor	10.4	0.63	0.24	ug/L	12.7	ND	82.2	65-115	NA	NA	
Atrazine	10.0	0.63	0.30	ug/L	12.7	ND	79.1	65-115	NA	NA	
Chlorpyrifos	10.2	0.63	0.43	ug/L	12.7	ND	80.2	60-115	NA	NA	
Cyanazine	11.4	0.63	0.61	ug/L	12.7	ND	89.8	65-120	NA	NA	
Deisopropylatrazine	8.89	0.63	0.33	ug/L	12.7	ND	70.2	65-115	NA	NA	
Desethylatrazine	10.5	0.63	0.37	ug/L	12.7	ND	83.2	65-115	NA	NA	
Dimethenamid	10.2	0.63	0.30	ug/L	12.7	ND	80.7	65-120	NA	NA	
EPTC	7.92	0.63	0.27	ug/L	12.7	ND	62.6	50-110	NA	NA	
Ethalfuralin	11.0	0.63	0.59	ug/L	12.7	ND	86.9	65-115	NA	NA	
Fonofos	9.95	0.63	0.37	ug/L	12.7	ND	78.6	55-115	NA	NA	
Metolachlor	10.5	0.63	0.35	ug/L	12.7	ND	83.1	65-120	NA	NA	
Metribuzin	10.6	0.63	0.44	ug/L	12.7	ND	83.4	65-120	NA	NA	
Pendimethalin	9.39	0.63	0.32	ug/L	12.7	ND	74.2	60-115	NA	NA	
Phorate	4.58	1.3	0.74	ug/L	12.7	ND	36.2	30-100	NA	NA	
Prometon	10.5	0.63	0.37	ug/L	12.7	ND	83.2	70-120	NA	NA	
Propachlor	10.3	0.63	0.18	ug/L	12.7	ND	81.1	65-115	NA	NA	



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Client Ref: 23/19-B05.07 SOC350
 Client Contact: Ms. Kelly Neppel
 PO Number:

Work Order #: 0902843
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0350 - EPA 3520C

Matrix Spike (B9F0350-MS1)

Source: 0902881-03RE1

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Propazine	10.0	0.63	0.26	ug/L	12.7	ND	79.1	65-115	NA	NA	
Simazine	8.76	0.63	0.40	ug/L	12.7	ND	69.2	60-115	NA	NA	
Terbufos	4.89	1.3	0.69	ug/L	12.7	ND	38.6	30-100	NA	NA	
Triallate	9.78	0.63	0.43	ug/L	12.7	ND	77.3	60-115	NA	NA	
Trifluralin	9.75	0.63	0.27	ug/L	12.7	ND	77.0	65-115	NA	NA	
Surrogate: Atrazine-d5	9.70			ug/L	12.7	NA	76.6	50-120			
Surrogate: Diazinon-d10	9.77			ug/L	12.7	NA	77.2	50-120			

Matrix Spike Duplicate (B9F0350-MSD1)

Source: 0902881-03RE1

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.9	0.63	0.32	ug/L	12.7	ND	86.1	65-115	0.466	30	
Alachlor	10.8	0.63	0.24	ug/L	12.7	ND	85.2	65-115	3.58	30	
Atrazine	10.3	0.63	0.30	ug/L	12.7	ND	81.3	65-115	2.74	30	
Chlorpyrifos	10.1	0.63	0.43	ug/L	12.7	ND	80.1	60-115	0.125	30	
Cyanazine	11.5	0.63	0.61	ug/L	12.7	ND	90.8	65-120	1.11	30	
Deisopropylatrazine	9.38	0.63	0.33	ug/L	12.7	ND	74.1	65-115	5.41	30	
Desethylatrazine	10.8	0.63	0.37	ug/L	12.7	ND	85.2	65-115	2.38	30	
Dimethenamid	10.4	0.63	0.30	ug/L	12.7	ND	81.9	65-120	1.48	30	
EPTC	8.09	0.63	0.27	ug/L	12.7	ND	63.9	50-110	2.06	30	
Ethalfuralin	10.5	0.63	0.59	ug/L	12.7	ND	83.2	65-115	4.35	30	
Fonofos	10.5	0.63	0.37	ug/L	12.7	ND	82.8	55-115	5.20	30	
Metolachlor	10.6	0.63	0.35	ug/L	12.7	ND	84.1	65-120	1.20	30	
Metribuzin	10.9	0.63	0.44	ug/L	12.7	ND	86.1	65-120	3.19	30	
Pendimethalin	9.20	0.63	0.32	ug/L	12.7	ND	72.7	60-115	2.04	30	
Phorate	9.32	1.3	0.74	ug/L	12.7	ND	73.6	30-100	68.1	30	
Prometon	10.6	0.63	0.37	ug/L	12.7	ND	84.0	70-120	0.957	30	
Propachlor	10.4	0.63	0.18	ug/L	12.7	ND	82.5	65-115	1.71	30	
Propazine	10.2	0.63	0.26	ug/L	12.7	ND	80.8	65-115	2.13	30	
Simazine	8.87	0.63	0.40	ug/L	12.7	ND	70.1	60-115	1.29	30	
Terbufos	9.19	1.3	0.69	ug/L	12.7	ND	72.6	30-100	61.2	30	
Triallate	9.76	0.63	0.43	ug/L	12.7	ND	77.1	60-115	0.259	30	
Trifluralin	9.62	0.63	0.27	ug/L	12.7	ND	76.0	65-115	1.31	30	
Surrogate: Atrazine-d5	9.76			ug/L	12.7	NA	77.1	50-120			
Surrogate: Diazinon-d10	9.71			ug/L	12.7	NA	76.7	50-120			



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Client Ref: 23/19-B05.07 SOC350
 Client Contact: Ms. Kelly Neppel
 PO Number:

Work Order #: 0902843
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0321 - EPA 3510C

Method Blank (B9F0321-BLK1)

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	ND	0.50	0.31	ug/L	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	ND	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D	ND	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D.B.	ND	0.50	0.15	ug/L	NA	NA	NA	NA	NA	NA	
Bentazon	ND	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Dicamba	ND	0.50	0.38	ug/L	NA	NA	NA	NA	NA	NA	
Dinoseb	ND	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
M.C.P.A.	ND	0.30	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	ND	0.50	0.39	ug/L	NA	NA	NA	NA	NA	NA	
Picloram	ND	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Triclopyr	ND	0.50	0.41	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	4.23			ug/L	5.00	NA	84.6	65-130			

Laboratory Control Sample (B9F0321-BS1)

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	3.50	0.50	0.31	ug/L	5.00	NA	70.0	70-130	NA	NA	
2,4,5-T.P.	3.74	0.50	0.28	ug/L	5.00	NA	74.8	70-130	NA	NA	
2,4-D	3.67	0.50	0.26	ug/L	5.00	NA	73.4	70-130	NA	NA	
2,4-D.B.	3.98	0.50	0.15	ug/L	5.00	NA	79.6	75-140	NA	NA	
Bentazon	4.05	0.50	0.22	ug/L	5.00	NA	81.0	75-135	NA	NA	
Dicamba	3.63	0.50	0.38	ug/L	5.00	NA	72.6	65-130	NA	NA	
Dinoseb	2.85	0.50	0.34	ug/L	5.00	NA	57.0	40-125	NA	NA	
M.C.P.A.	3.68	0.30	0.29	ug/L	5.00	NA	73.6	70-130	NA	NA	
Pentachlorophenol	3.59	0.50	0.39	ug/L	5.00	NA	71.8	70-120	NA	NA	
Picloram	3.02	0.50	0.25	ug/L	5.00	NA	60.4	60-125	NA	NA	
Triclopyr	3.68	0.50	0.41	ug/L	5.00	NA	73.6	75-125	NA	NA	
Surrogate: D.C.A.A.	4.11			ug/L	5.00	NA	82.2	65-130			

Laboratory Control Sample Duplicate (B9F0321-BSD1)

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.21	0.50	0.31	ug/L	5.00	NA	84.2	70-130	18.4	20	
2,4,5-T.P.	4.33	0.50	0.28	ug/L	5.00	NA	86.6	70-130	14.6	20	
2,4-D	4.29	0.50	0.26	ug/L	5.00	NA	85.8	70-130	15.6	20	
2,4-D.B.	4.79	0.50	0.15	ug/L	5.00	NA	95.8	75-140	18.5	20	
Bentazon	4.85	0.50	0.22	ug/L	5.00	NA	97.0	75-135	18.0	20	
Dicamba	4.32	0.50	0.38	ug/L	5.00	NA	86.4	65-130	17.4	20	
Dinoseb	3.10	0.50	0.34	ug/L	5.00	NA	62.0	40-125	8.40	20	
M.C.P.A.	4.41	0.30	0.29	ug/L	5.00	NA	88.2	70-130	18.0	20	
Pentachlorophenol	4.17	0.50	0.39	ug/L	5.00	NA	83.4	70-120	14.9	20	
Picloram	3.70	0.50	0.25	ug/L	5.00	NA	74.0	60-125	20.2	20	
Triclopyr	4.23	0.50	0.41	ug/L	5.00	NA	84.6	75-125	13.9	20	
Surrogate: D.C.A.A.	4.60			ug/L	5.00	NA	92.0	65-130			



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 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0321 - EPA 3510C

Laboratory Control Sample Duplicate (B9F0321-BSD1)

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Matrix Spike (B9F0321-MS1)

Source: 0902881-03

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	5.21	0.61	0.38	ug/L	6.10	ND	85.4	70-140	NA	NA	
2,4,5-T.P.	5.43	0.61	0.35	ug/L	6.10	ND	89.0	70-135	NA	NA	
2,4-D	5.02	0.61	0.32	ug/L	6.10	ND	82.4	70-140	NA	NA	
2,4-D.B.	5.60	0.61	0.18	ug/L	6.10	ND	91.8	75-140	NA	NA	
Bentazon	5.56	0.61	0.27	ug/L	6.10	ND	91.2	70-140	NA	NA	
Dicamba	5.21	0.61	0.46	ug/L	6.10	ND	85.4	65-140	NA	NA	
Dinoseb	4.17	0.61	0.42	ug/L	6.10	ND	68.4	40-130	NA	NA	
M.C.P.A.	4.76	0.37	0.36	ug/L	6.10	ND	78.0	60-140	NA	NA	
Pentachlorophenol	3.85	0.61	0.48	ug/L	6.10	ND	63.2	60-120	NA	NA	
Picloram	4.62	0.61	0.31	ug/L	6.10	ND	75.8	45-140	NA	NA	
Triclopyr	5.46	0.61	0.50	ug/L	6.10	ND	89.6	75-125	NA	NA	

Surrogate: D.C.A.A.

5.66 ug/L 6.10 NA 92.8 65-130

Matrix Spike Duplicate (B9F0321-MSD1)

Source: 0902881-03

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.60	0.56	0.35	ug/L	5.56	ND	82.8	70-140	12.4	25	
2,4,5-T.P.	4.52	0.56	0.32	ug/L	5.56	ND	81.4	70-135	18.2	25	
2,4-D	4.52	0.56	0.29	ug/L	5.56	ND	81.4	70-140	10.5	25	
2,4-D.B.	4.99	0.56	0.17	ug/L	5.56	ND	89.8	75-140	11.5	25	
Bentazon	4.78	0.56	0.25	ug/L	5.56	ND	86.0	70-140	15.2	25	
Dicamba	4.49	0.56	0.42	ug/L	5.56	ND	80.8	65-140	14.8	25	
Dinoseb	3.81	0.56	0.38	ug/L	5.56	ND	68.6	40-130	9.01	25	
M.C.P.A.	4.01	0.33	0.32	ug/L	5.56	ND	72.2	60-140	17.0	25	
Pentachlorophenol	3.63	0.56	0.44	ug/L	5.56	ND	65.4	60-120	5.89	25	
Picloram	3.98	0.56	0.28	ug/L	5.56	ND	71.6	45-140	15.0	25	
Triclopyr	4.70	0.56	0.45	ug/L	5.56	ND	84.6	75-125	15.0	25	

Surrogate: D.C.A.A.

4.80 ug/L 5.56 NA 86.4 65-130

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4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: 23/19-B05.07 SOC350
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0902843
Project Mgr: Steven J. Albrecht
Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0427 - EPA 3545

Method Blank (B9F0427-BLK1)

Prepared: 06/22/09 Analyzed: 06/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	ND	0.049	0.0087	mg/kg	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	ND	0.049	0.0068	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D	ND	0.049	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D.B.	ND	0.049	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Bentazon	ND	0.049	0.0087	mg/kg	NA	NA	NA	NA	NA	NA	
Dicamba	ND	0.049	0.0078	mg/kg	NA	NA	NA	NA	NA	NA	
Dinoseb	ND	0.049	0.0049	mg/kg	NA	NA	NA	NA	NA	NA	
M.C.P.A.	ND	0.049	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	ND	0.049	0.0068	mg/kg	NA	NA	NA	NA	NA	NA	
Picloram	ND	0.049	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Triclopyr	ND	0.049	0.0058	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	0.120			mg/kg	0.162	NA	74.4	50-125			

Laboratory Control Sample (B9F0427-BS1)

Prepared: 06/22/09 Analyzed: 06/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.121	0.050	0.0090	mg/kg	0.166	NA	72.8	60-125	NA	NA	
2,4,5-T.P.	0.131	0.050	0.0070	mg/kg	0.166	NA	78.6	65-125	NA	NA	
2,4-D	0.126	0.050	0.012	mg/kg	0.166	NA	75.8	60-125	NA	NA	
2,4-D.B.	0.136	0.050	0.011	mg/kg	0.166	NA	81.8	70-130	NA	NA	
Bentazon	0.153	0.050	0.0090	mg/kg	0.166	NA	92.0	65-125	NA	NA	
Dicamba	0.128	0.050	0.0080	mg/kg	0.166	NA	76.8	60-120	NA	NA	
Dinoseb	0.0875	0.050	0.0050	mg/kg	0.166	NA	52.6	30-120	NA	NA	
M.C.P.A.	0.120	0.050	0.014	mg/kg	0.166	NA	72.2	60-115	NA	NA	
Pentachlorophenol	0.122	0.050	0.0070	mg/kg	0.166	NA	73.2	50-120	NA	NA	
Picloram	0.102	0.050	0.011	mg/kg	0.166	NA	61.2	30-100	NA	NA	
Triclopyr	0.125	0.050	0.0060	mg/kg	0.166	NA	75.2	65-120	NA	NA	
Surrogate: D.C.A.A.	0.147			mg/kg	0.166	NA	88.6	50-125			

Laboratory Control Sample Duplicate (B9F0427-BSD1)

Prepared: 06/22/09 Analyzed: 06/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.118	0.050	0.0090	mg/kg	0.166	NA	71.4	60-125	2.47	25	
2,4,5-T.P.	0.128	0.050	0.0070	mg/kg	0.166	NA	77.4	65-125	2.07	25	
2,4-D	0.121	0.050	0.012	mg/kg	0.166	NA	73.2	60-125	4.02	25	
2,4-D.B.	0.135	0.050	0.011	mg/kg	0.166	NA	81.8	70-130	0.531	25	
Bentazon	0.151	0.050	0.0090	mg/kg	0.166	NA	91.0	65-125	1.62	25	
Dicamba	0.128	0.050	0.0080	mg/kg	0.166	NA	77.6	60-120	0.505	25	
Dinoseb	0.0867	0.050	0.0050	mg/kg	0.166	NA	52.4	30-120	0.912	25	
M.C.P.A.	0.125	0.050	0.014	mg/kg	0.166	NA	75.6	60-115	4.07	25	
Pentachlorophenol	0.122	0.050	0.0070	mg/kg	0.166	NA	74.0	50-120	0.556	25	
Picloram	0.0986	0.050	0.011	mg/kg	0.166	NA	59.6	30-100	3.18	25	
Triclopyr	0.126	0.050	0.0060	mg/kg	0.166	NA	76.2	65-120	0.790	25	
Surrogate: D.C.A.A.	0.137			mg/kg	0.166	NA	82.8	50-125			



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Barr Engineering Company
 4700 West 77th Street
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Client Ref: 23/19-B05.07 SOC350
 Client Contact: Ms. Kelly Neppel
 PO Number:

Work Order #: 0902843
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0427 - EPA 3545

Laboratory Control Sample Duplicate (B9F0427-BSD1)

Prepared: 06/22/09 Analyzed: 06/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Matrix Spike (B9F0427-MS1)

Source: 0902797-03

Prepared: 06/22/09 Analyzed: 06/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.113	0.052	0.0094	mg/kg dry	0.172	ND	66.0	30-130	NA	NA	
2,4,5-T.P.	0.126	0.052	0.0073	mg/kg dry	0.172	ND	73.6	40-130	NA	NA	
2,4-D	0.112	0.052	0.013	mg/kg dry	0.172	ND	65.4	30-125	NA	NA	
2,4-D.B.	0.137	0.052	0.012	mg/kg dry	0.172	ND	79.6	70-130	NA	NA	
Bentazon	0.142	0.052	0.0094	mg/kg dry	0.172	ND	83.0	65-125	NA	NA	
Dicamba	0.118	0.052	0.0084	mg/kg dry	0.172	ND	69.0	30-120	NA	NA	
Dinoseb	0.0834	0.052	0.0052	mg/kg dry	0.172	ND	48.6	30-120	NA	NA	
M.C.P.A.	0.120	0.052	0.015	mg/kg dry	0.172	ND	70.2	30-120	NA	NA	
Pentachlorophenol	0.124	0.052	0.0073	mg/kg dry	0.172	ND	72.2	50-120	NA	NA	
Picloram	ND	0.052	0.012	mg/kg dry	0.172	ND	NA	30-100	NA	NA	
Triclopyr	0.124	0.052	0.0063	mg/kg dry	0.172	ND	72.0	30-120	NA	NA	

Surrogate: D.C.A.A.

0.134 mg/kg dry 0.172 NA 78.2 50-125

Matrix Spike Duplicate (B9F0427-MSD1)

Source: 0902797-03

Prepared: 06/22/09 Analyzed: 06/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.102	0.052	0.0094	mg/kg dry	0.173	ND	58.8	30-130	11.0	25	
2,4,5-T.P.	0.122	0.052	0.0073	mg/kg dry	0.173	ND	70.6	40-130	3.57	25	
2,4-D	0.110	0.052	0.013	mg/kg dry	0.173	ND	63.6	30-125	2.20	25	
2,4-D.B.	0.134	0.052	0.012	mg/kg dry	0.173	ND	77.8	70-130	1.70	25	
Bentazon	0.143	0.052	0.0094	mg/kg dry	0.173	ND	82.8	65-125	0.349	25	
Dicamba	0.111	0.052	0.0084	mg/kg dry	0.173	ND	64.4	30-120	6.31	25	
Dinoseb	0.0756	0.052	0.0052	mg/kg dry	0.173	ND	43.8	30-120	9.80	25	
M.C.P.A.	0.112	0.052	0.015	mg/kg dry	0.173	ND	65.0	30-120	7.10	25	
Pentachlorophenol	0.121	0.052	0.0073	mg/kg dry	0.173	ND	70.0	50-120	2.50	25	
Picloram	ND	0.052	0.012	mg/kg dry	0.173	ND	NA	30-100	NA	25	
Triclopyr	0.117	0.052	0.0063	mg/kg dry	0.173	ND	68.0	30-120	5.12	25	

Surrogate: D.C.A.A.

0.127 mg/kg dry 0.173 NA 73.6 50-125

BRAUN INTERTEC

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Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: 23/19-B05.07 SOC350
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0902843
Project Mgr: Steven J. Albrecht
Account ID: B01058

0902843

Chain of Custody

BARR

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number
23/19-B05.07 SOC350
No 17705

Sample Identification	Collection		Matrix			Type	OC	Number of Containers/Preservative													Total No. of Containers	Remarks/Analysis Required:												
	Date	Time	Water	Soil	Other			Grab	Comp.	Volatiles Organic (Unpres.)	Volatiles Organic (Pres.)	Semivolatiles Organic	Total Metals (HNO ₃)	Dissolved Metals (HNO ₃)	General (Unpreserved)	Cyanide (NaOH, Ass. Acid)	Nutrients (H ₂ SO ₄)	Oil and Grease (H ₂ SO ₄)	TOC (H ₂ SO ₄)	Sulfide (Zn Acetate)			Dioxin	Whirlpak	Total Phenol (H ₂ SO ₄)	Methane	(HCL)/DRO, 1L Glass	Lugols, Glass, Amber	Formalin, Glass	List 1 + 2 Pesticides				
1. SOC3-GP3	6/9/09	0900	X			X																								3	3	Method 8270C		
2. SOC3-GP2	6/9/09	1030	X			X																								3	3			
3. SOC1-GP3.0-4	6/9/09	1200		X		X																							2	2				
4. SOC1-GP3	6/9/09	1400	X			X																							3	3				
5.																																		
6.																																		
7.																																		
8.																																		
9.																																		
10.																																		
11.																																		
12.																																		
13.																																		
14.																																		
15.																																		
16.																																		

SAMPLE #1 NOT INCLUDED
IN SHIPMENT - 06

1.400 + 105

Sampled By: ESC Relinquished By: elt Considine Date: 6/10/09 Time: 0900 Received by: Wm Date: 6/11/09 Time: 1023
 Relinquished By: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____
 Remarks: On ice Samples Shipped via: Air Freight Fed. Exp. Sampler Other _____ Air Bill Number: _____

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

Rev. 06/01/01

BRAUN **INTERTEC**

Braun Intertec Corporation
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Web: braunintertec.com

Ms. Kelly Nepl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

August 12, 2009

Work Order #: 0902844
(Revised)

RE: UMore PH2

Dear Kelly Nepl:

Braun Intertec Corporation received samples for the project identified above on June 11, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,



Steven J. Albrecht
Associate Principal



Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117

Wisconsin DNR: 999462640

Providing engineering and environmental solutions since 1957

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore PH2
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a “story” about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini “case narrative” that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each “cooler” is identified and the conditions associated with that cooler are documented. A “cooler” is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be “Total Petroleum Hydrocarbons.” Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an “M” (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word “dry” will appear next to the units. If the word “dry” does not appear then the result is “as received.”

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up as bolded. They are considered “hits.” The MDL is a statistically derived number that indicates, with high confidence, that an analyte can be detected above noise level. If a result is less than this value it is marked as “ND” for “Non-Detect.” If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a “J” flag denoting that it has been detected but that the result is an estimate. This is consistent with the *CLP Statement of Work* and the *National Functional Guidelines*.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.



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Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore PH2
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

Qualifiers and Abbreviations

vn	The surrogate recovery is below the laboratory generated control limits.
sur	One or more surrogate recoveries reported with this sample analysis are outside of the laboratory control limits.
sd	See case narrative section for further information.
qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound



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Client Ref: UMore PH2
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

Case Narrative

One of the laboratory control samples for List 1 was inadvertently spiked with double the normal amount standard. The recoveries reported are corrected but the relative per cent difference can't be reported for that batch. The recoveries of all of the compounds for the laboratory control sample and laboratory control sample duplicate were within limits.

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore PH2
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC3-TT7-0.5-1'	0902844-01	Soil	06/08/09 11:00	06/11/09 10:23
SOC3-TT8-0.5-1'	0902844-02	Soil	06/08/09 13:00	06/11/09 10:23
SOC3-TT1-1-2'	0902844-03	Soil	06/09/09 10:00	06/11/09 10:23
SOC3-TT15-3-4'	0902844-04	Soil	06/09/09 10:30	06/11/09 10:23
SOC3-TT15-5'	0902844-05	Soil	06/09/09 10:45	06/11/09 10:23
SOC3-TT2-5'	0902844-06	Soil	06/09/09 14:00	06/11/09 10:23
SOC3-TT2-3-4'	0902844-07	Soil	06/09/09 14:30	06/11/09 10:23



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Client Ref: UMore PH2
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler #1

Temperature: 1.4 °C
COC Included: Yes
Custody Seals Used: No
Custody Seals Intact: NA

Received on Ice: Yes
Hand Delivered by Sampler: No
Sufficient Sample Provided: Yes
Headspace Present (VOC): No

Preservation Confirmed: No
Temperature Blank: Yes
COC Complete: Yes
COC & Labels Agree: Yes

Barr Engineering Company
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Client Ref: UMore PH2
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC3-TT7-0.5-1'

0902844-01 (Soil)

6/8/09 11:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	88	0.050	0.010	% Wt	B9F0243	6/12/09	6/12/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

sd, sur

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.046	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Alachlor	ND	0.046	0.0080	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Atrazine	ND	0.046	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Chlorpyrifos	ND	0.046	0.0080	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Cyanazine	ND	0.046	0.0091	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Deisopropylatrazine	ND	0.046	0.0091	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Desethylatrazine	ND	0.046	0.013	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Dimethenamid	ND	0.046	0.0068	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
EPTC	ND	0.046	0.0068	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Ethalfuralin	ND	0.046	0.016	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Fonofos	ND	0.046	0.0046	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metolachlor	ND	0.046	0.0034	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metribuzin	ND	0.046	0.010	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Pendimethalin	ND	0.046	0.018	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Phorate	ND	0.046	0.0068	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Prometon	ND	0.046	0.0068	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propachlor	ND	0.046	0.010	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propazine	ND	0.046	0.0080	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Simazine	ND	0.046	0.010	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Terbufos	ND	0.046	0.010	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Triallate	ND	0.046	0.0057	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Trifluralin	ND	0.046	0.016	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Atrazine-d5	88.3 %	Limits: 70-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Diazinon-d10	45.8 %	Limits: 50-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	vn

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore PH2 Client Contact: Ms. Kelly Neppi PO Number:	Work Order #: 0902844 Project Mgr: Steven J. Albrecht Account ID: B01058
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SOC3-TT7-0.5-1'

0902844-01 (Soil)

6/8/09 11:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.057	0.010	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
2,4,5-T.P.	ND	0.057	0.0080	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
2,4-D	ND	0.057	0.014	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
2,4-D.B.	ND	0.057	0.013	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Bentazon	ND	0.057	0.010	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Dicamba	ND	0.057	0.0091	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Dinoseb	ND	0.057	0.0057	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
M.C.P.A.	ND	0.057	0.016	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Pentachlorophenol	ND	0.057	0.0080	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Picloram	ND	0.057	0.013	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	qn
Triclopyr	ND	0.057	0.0068	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Surrogate: D.C.A.A.	75.6 %	Limits: 50-125%			B9F0427	6/22/09	6/29/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore PH2
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC3-TT8-0.5-1'

0902844-02 (Soil)

6/8/09 13:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	84	0.050	0.010	% Wt	B9F0243	6/12/09	6/12/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

sd

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.047	0.012	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Alachlor	ND	0.047	0.0083	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Atrazine	ND	0.047	0.012	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Chlorpyrifos	ND	0.047	0.0083	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Cyanazine	ND	0.047	0.0095	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Deisopropylatrazine	ND	0.047	0.0095	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Desethylatrazine	ND	0.047	0.013	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Dimethenamid	ND	0.047	0.0071	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
EPTC	ND	0.047	0.0071	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Ethalfuralin	ND	0.047	0.017	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Fonofos	ND	0.047	0.0047	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metolachlor	ND	0.047	0.0036	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metribuzin	ND	0.047	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Pendimethalin	ND	0.047	0.019	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Phorate	ND	0.047	0.0071	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Prometon	ND	0.047	0.0071	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propachlor	ND	0.047	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propazine	ND	0.047	0.0083	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Simazine	ND	0.047	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Terbufos	ND	0.047	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Triallate	ND	0.047	0.0059	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Trifluralin	ND	0.047	0.017	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Atrazine-d5	81.9 %	Limits: 70-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Diazinon-d10	83.0 %	Limits: 50-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore PH2
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC3-TT8-0.5-1'

0902844-02 (Soil)

6/8/09 13:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.059	0.011	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
2,4,5-T.P.	ND	0.059	0.0083	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
2,4-D	ND	0.059	0.014	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
2,4-D.B.	ND	0.059	0.013	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Bentazon	ND	0.059	0.011	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Dicamba	ND	0.059	0.0095	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Dinoseb	ND	0.059	0.0059	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
M.C.P.A.	ND	0.059	0.017	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Pentachlorophenol	ND	0.059	0.0083	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Picloram	ND	0.059	0.013	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	qn
Triclopyr	ND	0.059	0.0071	mg/kg dry	B9F0427	6/22/09	6/29/09	EPA 8270C	
Surrogate: D.C.A.A.	80.6 %	Limits: 50-125%			B9F0427	6/22/09	6/29/09	EPA 8270C	

Barr Engineering Company
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Client Ref: UMore PH2
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Account ID: B01058

SOC3-TT1-1-2'

0902844-03 (Soil)

6/9/09 10:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	86	0.050	0.010	% Wt	B9F0243	6/12/09	6/12/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

sd

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.046	0.012	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Alachlor	ND	0.046	0.0081	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Atrazine	ND	0.046	0.012	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Chlorpyrifos	ND	0.046	0.0081	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Cyanazine	ND	0.046	0.0093	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Deisopropylatrazine	ND	0.046	0.0093	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Desethylatrazine	ND	0.046	0.013	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Dimethenamid	ND	0.046	0.0070	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
EPTC	ND	0.046	0.0070	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Ethalfuralin	ND	0.046	0.016	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Fonofos	ND	0.046	0.0046	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metolachlor	ND	0.046	0.0035	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metribuzin	ND	0.046	0.010	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Pendimethalin	ND	0.046	0.019	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Phorate	ND	0.046	0.0070	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Prometon	ND	0.046	0.0070	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propachlor	ND	0.046	0.010	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propazine	ND	0.046	0.0081	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Simazine	ND	0.046	0.010	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Terbufos	ND	0.046	0.010	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Triallate	ND	0.046	0.0058	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Trifluralin	ND	0.046	0.016	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Atrazine-d5	85.3 %	Limits: 70-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Diazinon-d10	72.1 %	Limits: 50-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
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Client Ref: UMore PH2
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Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC3-TT1-1-2'

0902844-03 (Soil)

6/9/09 10:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.058	0.010	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
2,4,5-T.P.	ND	0.058	0.0081	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
2,4-D	ND	0.058	0.014	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
2,4-D.B.	ND	0.058	0.013	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Bentazon	ND	0.058	0.010	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Dicamba	ND	0.058	0.0093	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Dinoseb	ND	0.058	0.0058	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
M.C.P.A.	ND	0.058	0.016	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Pentachlorophenol	ND	0.058	0.0081	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Picloram	ND	0.058	0.013	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	qn
Triclopyr	ND	0.058	0.0070	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Surrogate: D.C.A.A.	85.0 %	Limits: 50-125%			B9F0449	6/23/09	6/30/09	EPA 8270C	

Barr Engineering Company
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Minneapolis, MN 55435-4803

Client Ref: UMore PH2
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Account ID: B01058

SOC3-TT15-3-4'

0902844-04 (Soil)

6/9/09 10:30

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	92	0.050	0.010	% Wt	B9F0243	6/12/09	6/12/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

sd

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.044	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Alachlor	ND	0.044	0.0076	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Atrazine	ND	0.044	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Chlorpyrifos	ND	0.044	0.0076	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Cyanazine	ND	0.044	0.0087	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Deisopropylatrazine	ND	0.044	0.0087	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Desethylatrazine	ND	0.044	0.012	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Dimethenamid	ND	0.044	0.0065	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
EPTC	ND	0.044	0.0065	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Ethalfuralin	ND	0.044	0.015	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Fonofos	ND	0.044	0.0044	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metolachlor	ND	0.044	0.0033	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metribuzin	ND	0.044	0.0098	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Pendimethalin	ND	0.044	0.017	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Phorate	ND	0.044	0.0065	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Prometon	ND	0.044	0.0065	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propachlor	ND	0.044	0.0098	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propazine	ND	0.044	0.0076	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Simazine	ND	0.044	0.0098	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Terbufos	ND	0.044	0.0098	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Triallate	ND	0.044	0.0054	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Trifluralin	ND	0.044	0.015	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Atrazine-d5	92.7 %	Limits: 70-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Diazinon-d10	85.0 %	Limits: 50-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore PH2
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC3-TT15-3-4'

0902844-04 (Soil)

6/9/09 10:30

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.054	0.0098	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
2,4,5-T.P.	ND	0.054	0.0076	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
2,4-D	ND	0.054	0.013	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
2,4-D.B.	ND	0.054	0.012	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Bentazon	ND	0.054	0.0098	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Dicamba	ND	0.054	0.0087	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Dinoseb	ND	0.054	0.0054	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
M.C.P.A.	ND	0.054	0.015	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Pentachlorophenol	ND	0.054	0.0076	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Picloram	ND	0.054	0.012	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	qn
Triclopyr	ND	0.054	0.0065	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Surrogate: D.C.A.A.	95.6 %	Limits: 50-125%			B9F0449	6/23/09	6/30/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore PH2
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC3-TT15-5'
0902844-05 (Soil)
6/9/09 10:45

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	97	0.050	0.010	% Wt	B9F0243	6/12/09	6/12/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

sd

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.041	0.010	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Alachlor	ND	0.041	0.0072	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Atrazine	ND	0.041	0.010	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Chlorpyrifos	ND	0.041	0.0072	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Cyanazine	ND	0.041	0.0082	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Deisopropylatrazine	ND	0.041	0.0082	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Desethylatrazine	ND	0.041	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Dimethenamid	ND	0.041	0.0062	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
EPTC	ND	0.041	0.0062	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Ethalfuralin	ND	0.041	0.014	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Fonofos	ND	0.041	0.0041	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metolachlor	ND	0.041	0.0031	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metribuzin	ND	0.041	0.0092	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Pendimethalin	ND	0.041	0.016	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Phorate	ND	0.041	0.0062	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Prometon	ND	0.041	0.0062	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propachlor	ND	0.041	0.0092	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propazine	ND	0.041	0.0072	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Simazine	ND	0.041	0.0092	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Terbufos	ND	0.041	0.0092	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Triallate	ND	0.041	0.0051	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Trifluralin	ND	0.041	0.014	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Atrazine-d5	101 %	Limits: 70-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Diazinon-d10	96.6 %	Limits: 50-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore PH2 Client Contact: Ms. Kelly Neppel PO Number:	Work Order #: 0902844 Project Mgr: Steven J. Albrecht Account ID: B01058
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SOC3-TT15-5'
0902844-05 (Soil)
6/9/09 10:45

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.051	0.0092	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
2,4,5-T.P.	ND	0.051	0.0072	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
2,4-D	ND	0.051	0.012	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
2,4-D.B.	ND	0.051	0.011	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Bentazon	ND	0.051	0.0092	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Dicamba	ND	0.051	0.0082	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Dinoseb	ND	0.051	0.0051	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
M.C.P.A.	ND	0.051	0.014	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Pentachlorophenol	ND	0.051	0.0072	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Picloram	ND	0.051	0.011	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	qn
Triclopyr	ND	0.051	0.0062	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Surrogate: D.C.A.A.	79.6 %	Limits: 50-125%			B9F0449	6/23/09	6/30/09	EPA 8270C	

Barr Engineering Company
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Minneapolis, MN 55435-4803

Client Ref: UMore PH2
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC3-TT2-5'

0902844-06 (Soil)

6/9/09 14:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	98	0.050	0.010	% Wt	B9F0243	6/12/09	6/12/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

sd

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.041	0.010	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Alachlor	ND	0.041	0.0071	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Atrazine	ND	0.041	0.010	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Chlorpyrifos	ND	0.041	0.0071	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Cyanazine	ND	0.041	0.0081	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Deisopropylatrazine	ND	0.041	0.0081	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Desethylatrazine	ND	0.041	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Dimethenamid	ND	0.041	0.0061	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
EPTC	ND	0.041	0.0061	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Ethalfuralin	ND	0.041	0.014	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Fonofos	ND	0.041	0.0041	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metolachlor	ND	0.041	0.0030	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metribuzin	ND	0.041	0.0091	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Pendimethalin	ND	0.041	0.016	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Phorate	ND	0.041	0.0061	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Prometon	ND	0.041	0.0061	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propachlor	ND	0.041	0.0091	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propazine	ND	0.041	0.0071	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Simazine	ND	0.041	0.0091	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Terbufos	ND	0.041	0.0091	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Triallate	ND	0.041	0.0051	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Trifluralin	ND	0.041	0.014	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Atrazine-d5	94.9 %	Limits: 70-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Diazinon-d10	92.7 %	Limits: 50-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore PH2 Client Contact: Ms. Kelly Neppi PO Number:	Work Order #: 0902844 Project Mgr: Steven J. Albrecht Account ID: B01058
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SOC3-TT2-5'

0902844-06 (Soil)

6/9/09 14:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.051	0.0091	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
2,4,5-T.P.	ND	0.051	0.0071	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
2,4-D	ND	0.051	0.012	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
2,4-D.B.	ND	0.051	0.011	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Bentazon	ND	0.051	0.0091	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Dicamba	ND	0.051	0.0081	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Dinoseb	ND	0.051	0.0051	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
M.C.P.A.	ND	0.051	0.014	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Pentachlorophenol	ND	0.051	0.0071	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Picloram	ND	0.051	0.011	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	qn
Triclopyr	ND	0.051	0.0061	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Surrogate: D.C.A.A.	89.8 %	Limits: 50-125%			B9F0449	6/23/09	6/30/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore PH2
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC3-TT2-3-4'

0902844-07 (Soil)

6/9/09 14:30

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	95	0.050	0.010	% Wt	B9F0243	6/12/09	6/12/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

sd

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.042	0.010	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Alachlor	ND	0.042	0.0073	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Atrazine	ND	0.042	0.010	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Chlorpyrifos	ND	0.042	0.0073	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Cyanazine	ND	0.042	0.0084	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Deisopropylatrazine	ND	0.042	0.0084	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Desethylatrazine	ND	0.042	0.012	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Dimethenamid	ND	0.042	0.0063	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
EPTC	ND	0.042	0.0063	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Ethalfuralin	ND	0.042	0.015	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Fonofos	ND	0.042	0.0042	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metolachlor	ND	0.042	0.0031	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metribuzin	ND	0.042	0.0094	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Pendimethalin	ND	0.042	0.017	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Phorate	ND	0.042	0.0063	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Prometon	ND	0.042	0.0063	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propachlor	ND	0.042	0.0094	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propazine	ND	0.042	0.0073	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Simazine	ND	0.042	0.0094	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Terbufos	ND	0.042	0.0094	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Triallate	ND	0.042	0.0052	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Trifluralin	ND	0.042	0.015	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Atrazine-d5	89.4 %	Limits: 70-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Diazinon-d10	82.9 %	Limits: 50-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore PH2
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC3-TT2-3-4'

0902844-07 (Soil)

6/9/09 14:30

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.051	0.0093	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
2,4,5-T.P.	ND	0.051	0.0072	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
2,4-D	ND	0.051	0.012	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
2,4-D.B.	ND	0.051	0.011	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Bentazon	ND	0.051	0.0093	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Dicamba	ND	0.051	0.0082	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Dinoseb	ND	0.051	0.0051	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
M.C.P.A.	ND	0.051	0.014	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Pentachlorophenol	ND	0.051	0.0072	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Picloram	ND	0.051	0.011	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	qn
Triclopyr	ND	0.051	0.0062	mg/kg dry	B9F0449	6/23/09	6/30/09	EPA 8270C	
Surrogate: D.C.A.A.	85.0 %	Limits: 50-125%			B9F0449	6/23/09	6/30/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore PH2
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

Classical Chemistry Parameters - Quality Control

Batch B9F0243 - % Solids

Method Blank (B9F0243-BLK1)

Prepared & Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	ND	0.050	0.010	% Wt	NA	NA	NA	NA	NA	NA	

Duplicate (B9F0243-DUP1)

Source: 0902833-01

Prepared & Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	70.3	0.050	0.010	% Wt	NA	68.5	NA	NA	2.65	20	

Standard Reference Material (B9F0243-SRM1)

Prepared & Analyzed: 06/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	86.6			% Wt	91.3	NA	94.8	90-110	NA	NA	

Barr Engineering Company
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Client Ref: UMore PH2
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PO Number:

Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0342 - EPA 3545

Method Blank (B9F0342-BLK1)

Prepared: 06/17/09 Analyzed: 06/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	ND	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Alachlor	ND	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Atrazine	ND	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	ND	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Cyanazine	ND	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	ND	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Desethylatrazine	ND	0.040	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Dimethenamid	ND	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
EPTC	ND	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Ethalfuralin	ND	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Fonofos	ND	0.040	0.0040	mg/kg	NA	NA	NA	NA	NA	NA	
Metolachlor	ND	0.040	0.0030	mg/kg	NA	NA	NA	NA	NA	NA	
Metribuzin	ND	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Pendimethalin	ND	0.040	0.016	mg/kg	NA	NA	NA	NA	NA	NA	
Phorate	ND	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Prometon	ND	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Propachlor	ND	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Propazine	ND	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Simazine	ND	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Terbufos	ND	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Triallate	ND	0.040	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
Trifluralin	ND	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	0.253			mg/kg	0.328	NA	77.2	70-120			
Surrogate: Diazinon-d10	0.260			mg/kg	0.328	NA	79.2	50-120			

Laboratory Control Sample (B9F0342-BS1)

Prepared: 06/17/09 Analyzed: 06/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.666	0.040	0.010	mg/kg	0.661	NA	101	70-120	NA	NA	
Alachlor	0.661	0.040	0.0070	mg/kg	0.661	NA	100	75-120	NA	NA	
Atrazine	0.640	0.040	0.010	mg/kg	0.661	NA	96.8	70-120	NA	NA	
Chlorpyrifos	0.641	0.040	0.0070	mg/kg	0.661	NA	97.1	70-120	NA	NA	
Cyanazine	0.681	0.040	0.0080	mg/kg	0.661	NA	103	70-120	NA	NA	
Deisopropylatrazine	0.616	0.040	0.0080	mg/kg	0.661	NA	93.3	70-120	NA	NA	
Desethylatrazine	0.679	0.040	0.011	mg/kg	0.661	NA	103	70-120	NA	NA	
Dimethenamid	0.652	0.040	0.0060	mg/kg	0.661	NA	98.6	70-120	NA	NA	
EPTC	0.521	0.040	0.0060	mg/kg	0.661	NA	79.0	60-115	NA	NA	
Ethalfuralin	0.688	0.040	0.014	mg/kg	0.661	NA	104	70-120	NA	NA	
Fonofos	0.642	0.040	0.0040	mg/kg	0.661	NA	97.2	70-120	NA	NA	
Metolachlor	0.662	0.040	0.0030	mg/kg	0.661	NA	100	70-120	NA	NA	
Metribuzin	0.666	0.040	0.0090	mg/kg	0.661	NA	101	75-120	NA	NA	
Pendimethalin	0.629	0.040	0.016	mg/kg	0.661	NA	95.2	75-120	NA	NA	
Phorate	0.639	0.040	0.0060	mg/kg	0.661	NA	96.8	70-115	NA	NA	
Prometon	0.690	0.040	0.0060	mg/kg	0.661	NA	104	75-120	NA	NA	
Propachlor	0.660	0.040	0.0090	mg/kg	0.661	NA	99.9	75-115	NA	NA	



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Barr Engineering Company
 4700 West 77th Street
 Minneapolis, MN 55435-4803

Client Ref: UMore PH2
 Client Contact: Ms. Kelly Neppel
 PO Number:

Work Order #: 0902844
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0342 - EPA 3545

Laboratory Control Sample (B9F0342-BS1)

Prepared: 06/17/09 Analyzed: 06/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Propazine	0.622	0.040	0.0070	mg/kg	0.661	NA	94.1	70-120	NA	NA	
Simazine	0.543	0.040	0.0090	mg/kg	0.661	NA	82.2	50-110	NA	NA	
Terbufos	0.612	0.040	0.0090	mg/kg	0.661	NA	92.7	70-115	NA	NA	
Triallate	0.622	0.040	0.0050	mg/kg	0.661	NA	94.2	70-120	NA	NA	
Trifluralin	0.617	0.040	0.014	mg/kg	0.661	NA	93.4	80-115	NA	NA	
Surrogate: Atrazine-d5	0.295			mg/kg	0.330	NA	89.3	70-120			
Surrogate: Diazinon-d10	0.299			mg/kg	0.330	NA	90.4	50-120			

Matrix Spike (B9F0342-MS1)

Source: 0902879-07

Prepared: 06/17/09 Analyzed: 06/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.300	0.051	0.013	mg/kg dry	0.419	ND	71.6	50-110	NA	NA	
Alachlor	0.307	0.051	0.0089	mg/kg dry	0.419	ND	73.3	40-110	NA	NA	
Atrazine	0.324	0.051	0.013	mg/kg dry	0.419	ND	77.5	45-115	NA	NA	
Chlorpyrifos	0.236	0.051	0.0089	mg/kg dry	0.419	ND	56.3	30-125	NA	NA	
Cyanazine	0.353	0.051	0.010	mg/kg dry	0.419	ND	84.4	30-125	NA	NA	
Deisopropylatrazine	0.305	0.051	0.010	mg/kg dry	0.419	ND	72.9	30-125	NA	NA	
Desethylatrazine	0.363	0.051	0.014	mg/kg dry	0.419	ND	86.7	30-125	NA	NA	
Dimethenamid	0.313	0.051	0.0076	mg/kg dry	0.419	ND	74.8	55-110	NA	NA	
EPTC	0.256	0.051	0.0076	mg/kg dry	0.419	ND	61.2	40-105	NA	NA	
Ethalfuralin	0.233	0.051	0.018	mg/kg dry	0.419	ND	55.6	30-125	NA	NA	
Fonofos	0.264	0.051	0.0051	mg/kg dry	0.419	ND	63.1	30-120	NA	NA	
Metolachlor	0.364	0.051	0.0038	mg/kg dry	0.419	0.0809	67.7	40-115	NA	NA	
Metribuzin	0.298	0.051	0.011	mg/kg dry	0.419	ND	71.3	40-115	NA	NA	
Pendimethalin	0.243	0.051	0.020	mg/kg dry	0.419	0.0263	51.8	30-115	NA	NA	
Phorate	0.239	0.051	0.0076	mg/kg dry	0.419	ND	57.1	35-110	NA	NA	
Prometon	0.310	0.051	0.0076	mg/kg dry	0.419	ND	74.0	50-115	NA	NA	
Propachlor	0.321	0.051	0.011	mg/kg dry	0.419	ND	76.8	55-110	NA	NA	
Propazine	0.298	0.051	0.0089	mg/kg dry	0.419	ND	71.1	30-125	NA	NA	
Simazine	0.277	0.051	0.011	mg/kg dry	0.419	ND	66.1	40-115	NA	NA	
Terbufos	0.222	0.051	0.011	mg/kg dry	0.419	ND	53.1	30-125	NA	NA	
Triallate	0.223	0.051	0.0064	mg/kg dry	0.419	ND	53.4	30-110	NA	NA	
Trifluralin	0.481	0.051	0.018	mg/kg dry	0.419	0.297	43.8	30-120	NA	NA	
Surrogate: Atrazine-d5	0.304			mg/kg dry	0.419	NA	72.7	70-120			
Surrogate: Diazinon-d10	0.238			mg/kg dry	0.419	NA	56.8	50-120			

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Client Ref: UMore PH2
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0342 - EPA 3545

Matrix Spike Duplicate (B9F0342-MSD1)

Source: 0902879-07

Prepared: 06/17/09 Analyzed: 06/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.318	0.051	0.013	mg/kg dry	0.423	ND	75.2	50-110	5.93	25	
Alachlor	0.330	0.051	0.0089	mg/kg dry	0.423	ND	78.0	40-110	7.24	25	
Atrazine	0.356	0.051	0.013	mg/kg dry	0.423	ND	84.1	45-115	9.19	25	
Chlorpyrifos	0.240	0.051	0.0089	mg/kg dry	0.423	ND	56.8	30-125	1.91	35	
Cyanazine	0.388	0.051	0.010	mg/kg dry	0.423	ND	91.7	30-125	9.31	25	
Deisopropylatrazine	0.339	0.051	0.010	mg/kg dry	0.423	ND	80.2	30-125	10.6	25	
Desethylatrazine	0.403	0.051	0.014	mg/kg dry	0.423	ND	95.2	30-125	10.4	25	
Dimethenamid	0.340	0.051	0.0076	mg/kg dry	0.423	ND	80.3	55-110	8.12	25	
EPTC	0.281	0.051	0.0076	mg/kg dry	0.423	ND	66.5	40-105	9.32	25	
Ethalfuralin	0.247	0.051	0.018	mg/kg dry	0.423	ND	58.4	30-125	5.94	35	
Fonofos	0.282	0.051	0.0051	mg/kg dry	0.423	ND	66.7	30-120	6.57	35	
Metolachlor	0.399	0.051	0.0038	mg/kg dry	0.423	0.0809	75.3	40-115	9.18	25	
Metribuzin	0.316	0.051	0.011	mg/kg dry	0.423	ND	74.8	40-115	5.82	25	
Pendimethalin	0.255	0.051	0.020	mg/kg dry	0.423	0.0263	54.0	30-115	4.58	35	
Phorate	0.260	0.051	0.0076	mg/kg dry	0.423	ND	61.4	35-110	8.28	35	
Prometon	0.324	0.051	0.0076	mg/kg dry	0.423	ND	76.6	50-115	4.48	25	
Propachlor	0.358	0.051	0.011	mg/kg dry	0.423	ND	84.6	55-110	10.7	25	
Propazine	0.331	0.051	0.0089	mg/kg dry	0.423	ND	78.4	30-125	10.8	25	
Simazine	0.310	0.051	0.011	mg/kg dry	0.423	ND	73.2	40-115	11.2	25	
Terbufos	0.238	0.051	0.011	mg/kg dry	0.423	ND	56.3	30-125	6.88	35	
Triallate	0.235	0.051	0.0064	mg/kg dry	0.423	ND	55.5	30-110	4.88	35	
Trifluralin	0.512	0.051	0.018	mg/kg dry	0.423	0.297	50.8	30-120	6.28	35	
Surrogate: Atrazine-d5	0.341			mg/kg dry	0.423	NA	80.7	70-120			
Surrogate: Diazinon-d10	0.300			mg/kg dry	0.423	NA	70.9	50-120			

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Client Ref: UMore PH2
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0427 - EPA 3545

Method Blank (B9F0427-BLK1)

Prepared: 06/22/09 Analyzed: 06/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	ND	0.049	0.0087	mg/kg	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	ND	0.049	0.0068	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D	ND	0.049	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D.B.	ND	0.049	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Bentazon	ND	0.049	0.0087	mg/kg	NA	NA	NA	NA	NA	NA	
Dicamba	ND	0.049	0.0078	mg/kg	NA	NA	NA	NA	NA	NA	
Dinoseb	ND	0.049	0.0049	mg/kg	NA	NA	NA	NA	NA	NA	
M.C.P.A.	ND	0.049	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	ND	0.049	0.0068	mg/kg	NA	NA	NA	NA	NA	NA	
Picloram	ND	0.049	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Triclopyr	ND	0.049	0.0058	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	0.120			mg/kg	0.162	NA	74.4	50-125			

Laboratory Control Sample (B9F0427-BS1)

Prepared: 06/22/09 Analyzed: 06/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.121	0.050	0.0090	mg/kg	0.166	NA	72.8	60-125	NA	NA	
2,4,5-T.P.	0.131	0.050	0.0070	mg/kg	0.166	NA	78.6	65-125	NA	NA	
2,4-D	0.126	0.050	0.012	mg/kg	0.166	NA	75.8	60-125	NA	NA	
2,4-D.B.	0.136	0.050	0.011	mg/kg	0.166	NA	81.8	70-130	NA	NA	
Bentazon	0.153	0.050	0.0090	mg/kg	0.166	NA	92.0	65-125	NA	NA	
Dicamba	0.128	0.050	0.0080	mg/kg	0.166	NA	76.8	60-120	NA	NA	
Dinoseb	0.0875	0.050	0.0050	mg/kg	0.166	NA	52.6	30-120	NA	NA	
M.C.P.A.	0.120	0.050	0.014	mg/kg	0.166	NA	72.2	60-115	NA	NA	
Pentachlorophenol	0.122	0.050	0.0070	mg/kg	0.166	NA	73.2	50-120	NA	NA	
Picloram	0.102	0.050	0.011	mg/kg	0.166	NA	61.2	30-100	NA	NA	
Triclopyr	0.125	0.050	0.0060	mg/kg	0.166	NA	75.2	65-120	NA	NA	
Surrogate: D.C.A.A.	0.147			mg/kg	0.166	NA	88.6	50-125			

Laboratory Control Sample Duplicate (B9F0427-BSD1)

Prepared: 06/22/09 Analyzed: 06/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.118	0.050	0.0090	mg/kg	0.166	NA	71.4	60-125	2.47	25	
2,4,5-T.P.	0.128	0.050	0.0070	mg/kg	0.166	NA	77.4	65-125	2.07	25	
2,4-D	0.121	0.050	0.012	mg/kg	0.166	NA	73.2	60-125	4.02	25	
2,4-D.B.	0.135	0.050	0.011	mg/kg	0.166	NA	81.8	70-130	0.531	25	
Bentazon	0.151	0.050	0.0090	mg/kg	0.166	NA	91.0	65-125	1.62	25	
Dicamba	0.128	0.050	0.0080	mg/kg	0.166	NA	77.6	60-120	0.505	25	
Dinoseb	0.0867	0.050	0.0050	mg/kg	0.166	NA	52.4	30-120	0.912	25	
M.C.P.A.	0.125	0.050	0.014	mg/kg	0.166	NA	75.6	60-115	4.07	25	
Pentachlorophenol	0.122	0.050	0.0070	mg/kg	0.166	NA	74.0	50-120	0.556	25	
Picloram	0.0986	0.050	0.011	mg/kg	0.166	NA	59.6	30-100	3.18	25	
Triclopyr	0.126	0.050	0.0060	mg/kg	0.166	NA	76.2	65-120	0.790	25	
Surrogate: D.C.A.A.	0.137			mg/kg	0.166	NA	82.8	50-125			



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Client Ref: UMore PH2
 Client Contact: Ms. Kelly Neppel
 PO Number:

Work Order #: 0902844
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0427 - EPA 3545

Laboratory Control Sample Duplicate (B9F0427-BSD1)

Prepared: 06/22/09 Analyzed: 06/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Matrix Spike (B9F0427-MS1)

Source: 0902797-03

Prepared: 06/22/09 Analyzed: 06/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.113	0.052	0.0094	mg/kg dry	0.172	ND	66.0	30-130	NA	NA	
2,4,5-T.P.	0.126	0.052	0.0073	mg/kg dry	0.172	ND	73.6	40-130	NA	NA	
2,4-D	0.112	0.052	0.013	mg/kg dry	0.172	ND	65.4	30-125	NA	NA	
2,4-D.B.	0.137	0.052	0.012	mg/kg dry	0.172	ND	79.6	70-130	NA	NA	
Bentazon	0.142	0.052	0.0094	mg/kg dry	0.172	ND	83.0	65-125	NA	NA	
Dicamba	0.118	0.052	0.0084	mg/kg dry	0.172	ND	69.0	30-120	NA	NA	
Dinoseb	0.0834	0.052	0.0052	mg/kg dry	0.172	ND	48.6	30-120	NA	NA	
M.C.P.A.	0.120	0.052	0.015	mg/kg dry	0.172	ND	70.2	30-120	NA	NA	
Pentachlorophenol	0.124	0.052	0.0073	mg/kg dry	0.172	ND	72.2	50-120	NA	NA	
Picloram	ND	0.052	0.012	mg/kg dry	0.172	ND	NA	30-100	NA	NA	
Triclopyr	0.124	0.052	0.0063	mg/kg dry	0.172	ND	72.0	30-120	NA	NA	

Surrogate: D.C.A.A.

0.134

mg/kg dry

0.172

NA

78.2

50-125

Matrix Spike Duplicate (B9F0427-MSD1)

Source: 0902797-03

Prepared: 06/22/09 Analyzed: 06/29/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.102	0.052	0.0094	mg/kg dry	0.173	ND	58.8	30-130	11.0	25	
2,4,5-T.P.	0.122	0.052	0.0073	mg/kg dry	0.173	ND	70.6	40-130	3.57	25	
2,4-D	0.110	0.052	0.013	mg/kg dry	0.173	ND	63.6	30-125	2.20	25	
2,4-D.B.	0.134	0.052	0.012	mg/kg dry	0.173	ND	77.8	70-130	1.70	25	
Bentazon	0.143	0.052	0.0094	mg/kg dry	0.173	ND	82.8	65-125	0.349	25	
Dicamba	0.111	0.052	0.0084	mg/kg dry	0.173	ND	64.4	30-120	6.31	25	
Dinoseb	0.0756	0.052	0.0052	mg/kg dry	0.173	ND	43.8	30-120	9.80	25	
M.C.P.A.	0.112	0.052	0.015	mg/kg dry	0.173	ND	65.0	30-120	7.10	25	
Pentachlorophenol	0.121	0.052	0.0073	mg/kg dry	0.173	ND	70.0	50-120	2.50	25	
Picloram	ND	0.052	0.012	mg/kg dry	0.173	ND	NA	30-100	NA	25	
Triclopyr	0.117	0.052	0.0063	mg/kg dry	0.173	ND	68.0	30-120	5.12	25	

Surrogate: D.C.A.A.

0.127

mg/kg dry

0.173

NA

73.6

50-125

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore PH2
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0449 - EPA 3545

Method Blank (B9F0449-BLK1)

Prepared: 06/23/09 Analyzed: 06/30/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	ND	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	ND	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D	ND	0.050	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D.B.	ND	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Bentazon	ND	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Dicamba	ND	0.050	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Dinoseb	ND	0.050	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
M.C.P.A.	ND	0.050	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	ND	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Picloram	ND	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Triclopyr	ND	0.050	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	0.146			mg/kg	0.166	NA	87.6	50-125			

Laboratory Control Sample (B9F0449-BS1)

Prepared: 06/23/09 Analyzed: 06/30/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.139	0.050	0.0090	mg/kg	0.164	NA	84.8	60-125	NA	NA	
2,4,5-T.P.	0.144	0.050	0.0070	mg/kg	0.164	NA	88.0	65-125	NA	NA	
2,4-D	0.153	0.050	0.012	mg/kg	0.164	NA	93.0	60-125	NA	NA	
2,4-D.B.	0.147	0.050	0.011	mg/kg	0.164	NA	89.6	70-130	NA	NA	
Bentazon	0.149	0.050	0.0090	mg/kg	0.164	NA	90.6	65-125	NA	NA	
Dicamba	0.141	0.050	0.0080	mg/kg	0.164	NA	86.0	60-120	NA	NA	
Dinoseb	0.0968	0.050	0.0050	mg/kg	0.164	NA	59.0	30-120	NA	NA	
M.C.P.A.	0.144	0.050	0.014	mg/kg	0.164	NA	87.8	60-115	NA	NA	
Pentachlorophenol	0.138	0.050	0.0070	mg/kg	0.164	NA	83.8	50-120	NA	NA	
Picloram	0.0906	0.050	0.011	mg/kg	0.164	NA	55.2	30-100	NA	NA	
Triclopyr	0.144	0.050	0.0060	mg/kg	0.164	NA	88.0	65-120	NA	NA	
Surrogate: D.C.A.A.	0.152			mg/kg	0.164	NA	92.6	50-125			

Laboratory Control Sample Duplicate (B9F0449-BSD1)

Prepared: 06/23/09 Analyzed: 06/30/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.145	0.050	0.0090	mg/kg	0.164	NA	88.6	60-125	4.09	25	
2,4,5-T.P.	0.149	0.050	0.0070	mg/kg	0.164	NA	91.2	65-125	3.28	25	
2,4-D	0.159	0.050	0.012	mg/kg	0.164	NA	97.2	60-125	4.12	25	
2,4-D.B.	0.156	0.050	0.011	mg/kg	0.164	NA	95.6	70-130	6.18	25	
Bentazon	0.154	0.050	0.0090	mg/kg	0.164	NA	94.2	65-125	3.60	25	
Dicamba	0.150	0.050	0.0080	mg/kg	0.164	NA	91.6	60-120	6.01	25	
Dinoseb	0.109	0.050	0.0050	mg/kg	0.164	NA	66.4	30-120	11.5	25	
M.C.P.A.	0.146	0.050	0.014	mg/kg	0.164	NA	89.0	60-115	1.06	25	
Pentachlorophenol	0.131	0.050	0.0070	mg/kg	0.164	NA	80.0	50-120	4.93	25	
Picloram	0.0894	0.050	0.011	mg/kg	0.164	NA	54.6	30-100	1.39	25	
Triclopyr	0.153	0.050	0.0060	mg/kg	0.164	NA	93.6	65-120	5.87	25	
Surrogate: D.C.A.A.	0.150			mg/kg	0.164	NA	91.8	50-125			

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Client Ref: UMore PH2
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0449 - EPA 3545

Laboratory Control Sample Duplicate (B9F0449-BSD1)

Prepared: 06/23/09 Analyzed: 06/30/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Matrix Spike (B9F0449-MS1)

Source: 0902844-05

Prepared: 06/23/09 Analyzed: 06/30/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.154	0.051	0.0092	mg/kg dry	0.171	ND	90.4	30-130	NA	NA	
2,4,5-T.P.	0.156	0.051	0.0072	mg/kg dry	0.171	ND	91.4	40-130	NA	NA	
2,4-D	0.141	0.051	0.012	mg/kg dry	0.171	ND	82.8	30-125	NA	NA	
2,4-D.B.	0.162	0.051	0.011	mg/kg dry	0.171	ND	95.0	70-130	NA	NA	
Bentazon	0.160	0.051	0.0092	mg/kg dry	0.171	ND	93.8	65-125	NA	NA	
Dicamba	0.0864	0.051	0.0082	mg/kg dry	0.171	ND	50.6	30-120	NA	NA	
Dinoseb	0.104	0.051	0.0051	mg/kg dry	0.171	ND	61.0	30-120	NA	NA	
M.C.P.A.	0.143	0.051	0.014	mg/kg dry	0.171	ND	83.6	30-120	NA	NA	
Pentachlorophenol	0.139	0.051	0.0072	mg/kg dry	0.171	ND	81.4	50-120	NA	NA	
Picloram	ND	0.051	0.011	mg/kg dry	0.171	ND	NA	30-100	NA	NA	
Triclopyr	0.154	0.051	0.0062	mg/kg dry	0.171	ND	90.0	30-120	NA	NA	
Surrogate: D.C.A.A.	0.158			mg/kg dry	0.171	NA	92.6	50-125			

Matrix Spike Duplicate (B9F0449-MSD1)

Source: 0902844-05

Prepared: 06/23/09 Analyzed: 06/30/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.154	0.051	0.0092	mg/kg dry	0.170	ND	90.2	30-130	0.354	25	
2,4,5-T.P.	0.153	0.051	0.0072	mg/kg dry	0.170	ND	90.0	40-130	1.68	25	
2,4-D	0.151	0.051	0.012	mg/kg dry	0.170	ND	88.8	30-125	6.86	25	
2,4-D.B.	0.167	0.051	0.011	mg/kg dry	0.170	ND	98.0	70-130	2.98	25	
Bentazon	0.160	0.051	0.0092	mg/kg dry	0.170	ND	93.8	65-125	0.133	25	
Dicamba	0.102	0.051	0.0082	mg/kg dry	0.170	ND	59.6	30-120	16.2	25	
Dinoseb	0.100	0.051	0.0051	mg/kg dry	0.170	ND	58.8	30-120	3.81	25	
M.C.P.A.	0.149	0.051	0.014	mg/kg dry	0.170	ND	87.2	30-120	4.08	25	
Pentachlorophenol	0.137	0.051	0.0072	mg/kg dry	0.170	ND	80.2	50-120	1.62	25	
Picloram	ND	0.051	0.011	mg/kg dry	0.170	ND	NA	30-100	NA	25	
Triclopyr	0.155	0.051	0.0062	mg/kg dry	0.170	ND	90.8	30-120	0.752	25	
Surrogate: D.C.A.A.	0.151			mg/kg dry	0.170	NA	88.6	50-125			

BRAUN INTERTEC

11001 Hampshire Ave. S.
Minneapolis, MN 55438
952.995.2000 Phone
952.995.2020 Fax

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore PH2
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902844
Project Mgr: Steven J. Albrecht
Account ID: B01058

0902844



Chain of Custody
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23 / 19 - B.O.S.S.O.C. 3.50
Project Name: UMore PH2 No: 28190

Sample Identification	Collection		Matrix		Type	Number of Containers/Preservative													Total No. of Containers	Remarks										
	Date	Time	Water	Soil	Grab	Comp.	QC	Volatile Organics (Pres.) *1	Semivolatile Organics *2	Dissolved Metals (HNO ₃)	Total Metals (HNO ₃)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H ₂ SO ₄) *4	Oil and Grease (H ₂ SO ₄)	Sulfide (Zn Acetate)	Methane	Bacteria (Na ₂ S ₂ O ₃)			DRO (HCl)	VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH) *1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	Moisture (plastic vial, unpres.)			
1. SOC3-TT7-0.51	6/8/09	1100	X		X																			X	X			3	Analyze List 1 and 2 pesticides ↓ ↓ ↓ ↓ ↓	
2. SOC3-TT8-0.51	↓	1300	X		X																			X	X			3		
3. SOC3-TT1-1.2'	6/7/09	1000	X		X																			X	X			3		
4. SOC3-TT15-3.4'		1030	X		X																			X	X			3		
5. SOC3-TT15-5'		1045	X		X																			X	X			3		
6. SOC3-TT2-5'		1400	X		X																			X	X			3		
7. SOC3-TT2-3.4'	↓	1430	X		X																			X	X			3		
8.																													1.40e +0E	
9.																														
10.																														
11.																														
12.																														

Common Parameter/Container - Preservation Key
 *1 - Volatile Organics = BTEX, GRQ, TPH, Full List
 *2 - Semivolatile Organics = PAHs, PCB, Dioxins, Full List, Herbicide/Pesticide/PCBs
 *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
 *4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By: [Signature] On Ice? 0 Date: 6/10/09 Time: 7:45
 Received by: [Signature] Date: 6/11/09 Time: 10:23
 Relinquished By: _____ On Ice? Y Date: _____ Time: _____
 Received by: _____ Date: _____ Time: _____
 Samples Shipped Via: Air Freight Federal Express Other _____
 Air Bill Number: _____
 Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\RLG\FORMS\Chain of Custody Form - RLG Rev. 07/01/05

BRAUN **INTERTEC**

Braun Intertec Corporation
11001 Hampshire Avenue S.
Minneapolis, MN 55438

Phone: 952.995.2000
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Web: braunintertec.com

Ms. Kelly Nepl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

August 12, 2009

Work Order #: 0902879
(Revised)

RE: UMore Park

Dear Kelly Nepl:

Braun Intertec Corporation received samples for the project identified above on June 12, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,



Steven J. Albrecht
Associate Principal



Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117

Wisconsin DNR: 999462640

Providing engineering and environmental solutions since 1957

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Park
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up as bolded. They are considered "hits." The MDL is a statistically derived number that indicates, with high confidence, that an analyte can be detected above noise level. If a result is less than this value it is marked as "ND" for "Non-Detect." If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate. This is consistent with the *CLP Statement of Work* and the *National Functional Guidelines*.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Park
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

Qualifiers and Abbreviations

vn	The surrogate recovery is below the laboratory generated control limits.
vfa	The method reporting limit (MRL) was raised for one or more analytes; a dilution of the sample was necessary due to high analyte levels and/or matrix interferences.
sur	One or more surrogate recoveries reported with this sample analysis are outside of the laboratory control limits.
sd	See case narrative section for further information.
qo	The relative percent difference (RPD) was outside of laboratory control limits for the matrix spike (MS) and matrix spike duplicate (MSD) samples.
qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
J	Detected but below the Method Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
gp	The relative percent difference (RPD) for the laboratory control sample and laboratory control sample duplicate is outside of laboratory control limits.
go	The laboratory control sample recovery is outside of laboratory control limits.
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Park
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

Case Narrative

One of the laboratory control samples for List 1 was inadvertently spiked with double the normal amount standard. The recoveries reported are corrected but the relative per cent difference can't be reported for that batch. The recoveries of all of the compounds for both the laboratory control sample and laboratory control sample duplicate were within limits.

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Park
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GP-FB-1 (Water)	0902879-01	Water	06/10/09 12:00	06/12/09 11:00
SOC3-GP3	0902879-02	Water	06/10/09 11:30	06/12/09 11:00
SS1	0902879-03	Soil	06/11/09 15:00	06/12/09 11:00
SS2	0902879-04	Soil	06/11/09 15:30	06/12/09 11:00
SS3	0902879-05	Soil	06/11/09 15:45	06/12/09 11:00
SS4	0902879-06	Soil	06/11/09 16:15	06/12/09 11:00
SS5	0902879-07	Soil	06/11/09 17:10	06/12/09 11:00

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Park
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler 2

Temperature: 3.0 °C	Received on Ice: Yes	Preservation Confirmed: No
COC Included: Yes	Hand Delivered by Sampler: No	Temperature Blank: Yes
Custody Seals Used: No	Sufficient Sample Provided: Yes	COC Complete: Yes
Custody Seals Intact: NA	Headspace Present (VOC): No	COC & Labels Agree: Yes

Cooler: Cooler #1

Temperature: 2.6 °C	Received on Ice: Yes	Preservation Confirmed: No
COC Included: Yes	Hand Delivered by Sampler: No	Temperature Blank: Yes
Custody Seals Used: No	Sufficient Sample Provided: Yes	COC Complete: Yes
Custody Seals Intact: NA	Headspace Present (VOC): No	COC & Labels Agree: Yes

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Park
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

GP-FB-1 (Water)

0902879-01 (Water)

6/10/09 12:00

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.53	0.26	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Alachlor	ND	0.53	0.20	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Atrazine	ND	0.53	0.25	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Chlorpyrifos	ND	0.53	0.35	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Cyanazine	ND	0.53	0.51	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Deisopropylatrazine	ND	0.53	0.27	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Desethylatrazine	ND	0.53	0.31	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Dimethenamid	ND	0.53	0.25	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
EPTC	ND	0.53	0.23	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Ethalfuralin	ND	0.53	0.49	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Fonofos	ND	0.53	0.31	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Metolachlor	ND	0.53	0.29	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Metribuzin	ND	0.53	0.37	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Pendimethalin	ND	0.53	0.26	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Phorate	ND	1.1	0.62	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	go, gp, qo
Prometon	ND	0.53	0.31	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Propachlor	ND	0.53	0.15	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Propazine	ND	0.53	0.22	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Simazine	ND	0.53	0.33	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Terbufos	ND	1.1	0.57	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	go, gp, qo
Triallate	ND	0.53	0.35	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Trifluralin	ND	0.53	0.23	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Surrogate: Atrazine-d5	85.2 %	Limits: 50-120%			B9F0350	6/17/09	6/23/09	EPA 8270C	
Surrogate: Diazinon-d10	87.5 %	Limits: 50-120%			B9F0350	6/17/09	6/23/09	EPA 8270C	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.57	0.36	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4,5-T.P.	ND	0.57	0.33	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4-D	ND	0.57	0.30	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4-D.B.	ND	0.57	0.17	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Bentazon	ND	0.57	0.26	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Dicamba	ND	0.57	0.44	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Dinoseb	ND	0.57	0.40	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
M.C.P.A.	ND	0.34	0.34	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Park
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

GP-FB-1 (Water)

0902879-01 (Water)

6/10/09 12:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Pentachlorophenol	ND	0.57	0.45	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Picloram	ND	0.57	0.29	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	gp
Triclopyr	ND	0.57	0.47	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	go
<i>Surrogate: D.C.A.A.</i>	86.8 %	<i>Limits: 65-130%</i>			<i>B9F0321</i>	<i>6/16/09</i>	<i>6/23/09</i>	<i>EPA 8270C</i>	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Park
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC3-GP3
0902879-02 (Water)
6/10/09 11:30

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.75	0.37	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Alachlor	ND	0.75	0.28	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Atrazine	ND	0.75	0.35	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Chlorpyrifos	ND	0.75	0.50	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Cyanazine	ND	0.75	0.72	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Deisopropylatrazine	ND	0.75	0.38	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Desethylatrazine	ND	0.75	0.43	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Dimethenamid	ND	0.75	0.35	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
EPTC	ND	0.75	0.32	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Ethalfuralin	ND	0.75	0.70	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Fonofos	ND	0.75	0.44	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Metolachlor	ND	0.75	0.41	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Metribuzin	ND	0.75	0.52	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Pendimethalin	ND	0.75	0.37	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Phorate	ND	1.5	0.87	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	go, gp, qo
Prometon	ND	0.75	0.44	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Propachlor	ND	0.75	0.21	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Propazine	ND	0.75	0.31	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Simazine	ND	0.75	0.47	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Terbufos	ND	1.5	0.81	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	go, gp, qo
Triallate	ND	0.75	0.50	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Trifluralin	ND	0.75	0.32	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Surrogate: Atrazine-d5	84.5 %	Limits: 50-120%			B9F0350	6/17/09	6/23/09	EPA 8270C	
Surrogate: Diazinon-d10	87.9 %	Limits: 50-120%			B9F0350	6/17/09	6/23/09	EPA 8270C	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.69	0.43	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4,5-T.P.	ND	0.69	0.39	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4-D	ND	0.69	0.37	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4-D.B.	ND	0.69	0.21	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Bentazon	ND	0.69	0.31	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Dicamba	ND	0.69	0.53	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Dinoseb	ND	0.69	0.48	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
M.C.P.A.	ND	0.42	0.41	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Park
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC3-GP3

0902879-02 (Water)

6/10/09 11:30

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Pentachlorophenol	ND	0.69	0.54	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Picloram	ND	0.69	0.35	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	gp
Triclopyr	ND	0.69	0.57	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	go
<i>Surrogate: D.C.A.A.</i>	<i>81.6 %</i>	<i>Limits: 65-130%</i>			<i>B9F0321</i>	<i>6/16/09</i>	<i>6/23/09</i>	<i>EPA 8270C</i>	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Park
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

SS1

0902879-03 (Soil)

6/11/09 15:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	78	0.050	0.010	% Wt	B9F0260	6/15/09	6/15/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.051	0.013	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Alachlor	ND	0.051	0.0089	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Atrazine	ND	0.051	0.013	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Chlorpyrifos	ND	0.051	0.0089	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Cyanazine	ND	0.051	0.010	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Deisopropylatrazine	ND	0.051	0.010	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Desethylatrazine	ND	0.051	0.014	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Dimethenamid	ND	0.051	0.0076	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
EPTC	ND	0.051	0.0076	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Ethalfuralin	ND	0.051	0.018	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Fonofos	ND	0.051	0.0051	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metolachlor	0.0063 J	0.051	0.0038	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metribuzin	ND	0.051	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Pendimethalin	ND	0.051	0.020	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Phorate	ND	0.051	0.0076	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Prometon	ND	0.051	0.0076	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propachlor	ND	0.051	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propazine	ND	0.051	0.0089	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Simazine	ND	0.051	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Terbufos	ND	0.051	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Triallate	ND	0.051	0.0064	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Trifluralin	ND	0.051	0.018	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Atrazine-d5	56.1 %	Limits: 70-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	vn
Surrogate: Diazinon-d10	38.8 %	Limits: 50-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	vn

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Park
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

SS1

0902879-03 (Soil)

6/11/09 15:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.064	0.011	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
2,4,5-T.P.	ND	0.064	0.0089	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
2,4-D	ND	0.064	0.015	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
2,4-D.B.	ND	0.064	0.014	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Bentazon	ND	0.064	0.011	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Dicamba	ND	0.064	0.010	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Dinoseb	ND	0.064	0.0064	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
M.C.P.A.	ND	0.064	0.018	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Pentachlorophenol	ND	0.064	0.0089	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Picloram	ND	0.064	0.014	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	go, gp, qn
Triclopyr	ND	0.064	0.0076	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Surrogate: D.C.A.A.	86.4 %	Limits: 50-125%			B9F0485	6/24/09	6/30/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Park
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

SS2

0902879-04 (Soil)

6/11/09 15:30

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	74	0.050	0.010	% Wt	B9F0260	6/15/09	6/15/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

sd, sur

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.054	0.013	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Alachlor	ND	0.054	0.0094	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Atrazine	ND	0.054	0.013	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Chlorpyrifos	ND	0.054	0.0094	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Cyanazine	ND	0.054	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Deisopropylatrazine	ND	0.054	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Desethylatrazine	ND	0.054	0.015	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Dimethenamid	ND	0.054	0.0081	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
EPTC	ND	0.054	0.0081	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Ethalfuralin	ND	0.054	0.019	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Fonofos	ND	0.054	0.0054	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metolachlor	0.011 J	0.054	0.0040	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metribuzin	ND	0.054	0.012	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Pendimethalin	0.045 J	0.054	0.021	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Phorate	ND	0.054	0.0081	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Prometon	ND	0.054	0.0081	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propachlor	ND	0.054	0.012	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propazine	ND	0.054	0.0094	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Simazine	ND	0.054	0.012	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Terbufos	2.3	0.27	0.060	mg/kg dry	B9F0342	6/17/09	6/23/09	EPA 8270C	vfa
Triallate	ND	0.054	0.0067	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Trifluralin	ND	0.054	0.019	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Atrazine-d5	75.0 %	Limits: 70-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Diazinon-d10	41.1 %	Limits: 50-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	vn

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Park
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

SS2

0902879-04 (Soil)

6/11/09 15:30

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.067	0.012	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
2,4,5-T.P.	ND	0.067	0.0094	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
2,4-D	ND	0.067	0.016	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
2,4-D.B.	ND	0.067	0.015	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Bentazon	ND	0.067	0.012	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Dicamba	ND	0.067	0.011	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Dinoseb	ND	0.067	0.0067	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
M.C.P.A.	ND	0.067	0.019	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Pentachlorophenol	ND	0.067	0.0094	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Picloram	ND	0.067	0.015	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	go, gp, qn
Triclopyr	ND	0.067	0.0081	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Surrogate: D.C.A.A.	86.0 %	Limits: 50-125%			B9F0485	6/24/09	6/30/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Park
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

SS3

0902879-05 (Soil)

6/11/09 15:45

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	80	0.050	0.010	% Wt	B9F0260	6/15/09	6/15/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

sd, sur

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.050	0.013	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Alachlor	ND	0.050	0.0088	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Atrazine	ND	0.050	0.013	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Chlorpyrifos	ND	0.050	0.0088	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Cyanazine	ND	0.050	0.010	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Deisopropylatrazine	ND	0.050	0.010	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Desethylatrazine	ND	0.050	0.014	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Dimethenamid	ND	0.050	0.0075	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
EPTC	ND	0.050	0.0075	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Ethalfuralin	ND	0.050	0.018	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Fonofos	ND	0.050	0.0050	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metolachlor	0.063	0.050	0.0038	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metribuzin	ND	0.050	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Pendimethalin	ND	0.050	0.020	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Phorate	ND	0.050	0.0075	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Prometon	ND	0.050	0.0075	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propachlor	ND	0.050	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propazine	ND	0.050	0.0088	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Simazine	ND	0.050	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Terbufos	ND	0.050	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Triallate	ND	0.050	0.0063	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Trifluralin	ND	0.050	0.018	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Atrazine-d5	78.3 %	Limits: 70-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Diazinon-d10	40.8 %	Limits: 50-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	vn

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore Park Client Contact: Ms. Kelly Neppi PO Number:	Work Order #: 0902879 Project Mgr: Steven J. Albrecht Account ID: B01058
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SS3

0902879-05 (Soil)

6/11/09 15:45

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.063	0.011	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
2,4,5-T.P.	ND	0.063	0.0088	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
2,4-D	ND	0.063	0.015	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
2,4-D.B.	ND	0.063	0.014	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Bentazon	ND	0.063	0.011	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Dicamba	ND	0.063	0.010	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Dinoseb	ND	0.063	0.0063	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
M.C.P.A.	ND	0.063	0.018	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Pentachlorophenol	ND	0.063	0.0088	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Picloram	ND	0.063	0.014	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	go, gp, qn
Triclopyr	ND	0.063	0.0075	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Surrogate: D.C.A.A.	83.4 %	Limits: 50-125%			B9F0485	6/24/09	6/30/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Park
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PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

SS4

0902879-06 (Soil)

6/11/09 16:15

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	82	0.050	0.010	% Wt	B9F0260	6/15/09	6/15/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

sd

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.049	0.012	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Alachlor	ND	0.049	0.0085	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Atrazine	ND	0.049	0.012	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Chlorpyrifos	ND	0.049	0.0085	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Cyanazine	ND	0.049	0.0098	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Deisopropylatrazine	ND	0.049	0.0098	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Desethylatrazine	ND	0.049	0.013	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Dimethenamid	ND	0.049	0.0073	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
EPTC	ND	0.049	0.0073	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Ethalfuralin	ND	0.049	0.017	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Fonofos	ND	0.049	0.0049	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metolachlor	0.015 J	0.049	0.0037	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metribuzin	ND	0.049	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Pendimethalin	ND	0.049	0.020	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Phorate	ND	0.049	0.0073	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Prometon	ND	0.049	0.0073	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propachlor	ND	0.049	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propazine	ND	0.049	0.0085	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Simazine	ND	0.049	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Terbufos	ND	0.049	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Triallate	ND	0.049	0.0061	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Trifluralin	ND	0.049	0.017	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Atrazine-d5	80.4 %	Limits: 70-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Diazinon-d10	56.8 %	Limits: 50-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Park
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

SS4

0902879-06 (Soil)

6/11/09 16:15

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.061	0.011	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
2,4,5-T.P.	ND	0.061	0.0085	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
2,4-D	ND	0.061	0.015	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
2,4-D.B.	ND	0.061	0.013	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Bentazon	ND	0.061	0.011	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Dicamba	ND	0.061	0.0098	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Dinoseb	ND	0.061	0.0061	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
M.C.P.A.	ND	0.061	0.017	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Pentachlorophenol	ND	0.061	0.0085	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Picloram	ND	0.061	0.013	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	go, gp, qn
Triclopyr	ND	0.061	0.0073	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Surrogate: D.C.A.A.	75.4 %	Limits: 50-125%			B9F0485	6/24/09	6/30/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
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Client Ref: UMore Park
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

SS5

0902879-07 (Soil)

6/11/09 17:10

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	79	0.050	0.010	% Wt	B9F0260	6/15/09	6/15/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

sd

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.051	0.013	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Alachlor	ND	0.051	0.0089	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Atrazine	ND	0.051	0.013	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Chlorpyrifos	ND	0.051	0.0089	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Cyanazine	ND	0.051	0.010	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Deisopropylatrazine	ND	0.051	0.010	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Desethylatrazine	ND	0.051	0.014	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Dimethenamid	ND	0.051	0.0076	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
EPTC	ND	0.051	0.0076	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Ethalfuralin	ND	0.051	0.018	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Fonofos	ND	0.051	0.0051	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metolachlor	0.081	0.051	0.0038	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Metribuzin	ND	0.051	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Pendimethalin	0.026 J	0.051	0.020	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Phorate	ND	0.051	0.0076	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Prometon	ND	0.051	0.0076	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propachlor	ND	0.051	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Propazine	ND	0.051	0.0089	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Simazine	ND	0.051	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Terbufos	ND	0.051	0.011	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Triallate	ND	0.051	0.0064	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Trifluralin	0.30	0.051	0.018	mg/kg dry	B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Atrazine-d5	77.7 %	Limits: 70-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	
Surrogate: Diazinon-d10	61.1 %	Limits: 50-120%			B9F0342	6/17/09	6/18/09	EPA 8270C	

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Account ID: B01058

SS5

0902879-07 (Soil)

6/11/09 17:10

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.064	0.011	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
2,4,5-T.P.	ND	0.064	0.0089	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
2,4-D	ND	0.064	0.015	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
2,4-D.B.	ND	0.064	0.014	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Bentazon	ND	0.064	0.011	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Dicamba	ND	0.064	0.010	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Dinoseb	ND	0.064	0.0064	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
M.C.P.A.	ND	0.064	0.018	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Pentachlorophenol	ND	0.064	0.0089	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Picloram	ND	0.064	0.014	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	go, gp, qn
Triclopyr	ND	0.064	0.0076	mg/kg dry	B9F0485	6/24/09	6/30/09	EPA 8270C	
Surrogate: D.C.A.A.	87.0 %	Limits: 50-125%			B9F0485	6/24/09	6/30/09	EPA 8270C	



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Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore Park Client Contact: Ms. Kelly Nepl PO Number:	Work Order #: 0902879 Project Mgr: Steven J. Albrecht Account ID: B01058
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Classical Chemistry Parameters - Quality Control

Batch B9F0260 - % Solids

Method Blank (B9F0260-BLK1)

Prepared & Analyzed: 06/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	ND	0.050	0.010	% Wt	NA	NA	NA	NA	NA	NA	

Duplicate (B9F0260-DUP1)

Source: 0902864-01

Prepared & Analyzed: 06/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	91.3	0.050	0.010	% Wt	NA	93.6	NA	NA	2.45	20	

Standard Reference Material (B9F0260-SRM1)

Prepared & Analyzed: 06/15/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	86.9			% Wt	91.3	NA	95.2	90-110	NA	NA	

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Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0342 - EPA 3545

Method Blank (B9F0342-BLK1)

Prepared: 06/17/09 Analyzed: 06/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	ND	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Alachlor	ND	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Atrazine	ND	0.040	0.010	mg/kg	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	ND	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Cyanazine	ND	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	ND	0.040	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Desethylatrazine	ND	0.040	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Dimethenamid	ND	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
EPTC	ND	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Ethalfuralin	ND	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Fonofos	ND	0.040	0.0040	mg/kg	NA	NA	NA	NA	NA	NA	
Metolachlor	ND	0.040	0.0030	mg/kg	NA	NA	NA	NA	NA	NA	
Metribuzin	ND	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Pendimethalin	ND	0.040	0.016	mg/kg	NA	NA	NA	NA	NA	NA	
Phorate	ND	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Prometon	ND	0.040	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Propachlor	ND	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Propazine	ND	0.040	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Simazine	ND	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Terbufos	ND	0.040	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Triallate	ND	0.040	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
Trifluralin	ND	0.040	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	0.253			mg/kg	0.328	NA	77.2	70-120			
Surrogate: Diazinon-d10	0.260			mg/kg	0.328	NA	79.2	50-120			

Laboratory Control Sample (B9F0342-BS1)

Prepared: 06/17/09 Analyzed: 06/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.666	0.040	0.010	mg/kg	0.661	NA	101	70-120	NA	NA	
Alachlor	0.661	0.040	0.0070	mg/kg	0.661	NA	100	75-120	NA	NA	
Atrazine	0.640	0.040	0.010	mg/kg	0.661	NA	96.8	70-120	NA	NA	
Chlorpyrifos	0.641	0.040	0.0070	mg/kg	0.661	NA	97.1	70-120	NA	NA	
Cyanazine	0.681	0.040	0.0080	mg/kg	0.661	NA	103	70-120	NA	NA	
Deisopropylatrazine	0.616	0.040	0.0080	mg/kg	0.661	NA	93.3	70-120	NA	NA	
Desethylatrazine	0.679	0.040	0.011	mg/kg	0.661	NA	103	70-120	NA	NA	
Dimethenamid	0.652	0.040	0.0060	mg/kg	0.661	NA	98.6	70-120	NA	NA	
EPTC	0.521	0.040	0.0060	mg/kg	0.661	NA	79.0	60-115	NA	NA	
Ethalfuralin	0.688	0.040	0.014	mg/kg	0.661	NA	104	70-120	NA	NA	
Fonofos	0.642	0.040	0.0040	mg/kg	0.661	NA	97.2	70-120	NA	NA	
Metolachlor	0.662	0.040	0.0030	mg/kg	0.661	NA	100	70-120	NA	NA	
Metribuzin	0.666	0.040	0.0090	mg/kg	0.661	NA	101	75-120	NA	NA	
Pendimethalin	0.629	0.040	0.016	mg/kg	0.661	NA	95.2	75-120	NA	NA	
Phorate	0.639	0.040	0.0060	mg/kg	0.661	NA	96.8	70-115	NA	NA	
Prometon	0.690	0.040	0.0060	mg/kg	0.661	NA	104	75-120	NA	NA	
Propachlor	0.660	0.040	0.0090	mg/kg	0.661	NA	99.9	75-115	NA	NA	



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Client Ref: UMore Park
 Client Contact: Ms. Kelly Neppel
 PO Number:

Work Order #: 0902879
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0342 - EPA 3545

Laboratory Control Sample (B9F0342-BS1)

Prepared: 06/17/09 Analyzed: 06/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Propazine	0.622	0.040	0.0070	mg/kg	0.661	NA	94.1	70-120	NA	NA	
Simazine	0.543	0.040	0.0090	mg/kg	0.661	NA	82.2	50-110	NA	NA	
Terbufos	0.612	0.040	0.0090	mg/kg	0.661	NA	92.7	70-115	NA	NA	
Triallate	0.622	0.040	0.0050	mg/kg	0.661	NA	94.2	70-120	NA	NA	
Trifluralin	0.617	0.040	0.014	mg/kg	0.661	NA	93.4	80-115	NA	NA	
Surrogate: Atrazine-d5	0.295			mg/kg	0.330	NA	89.3	70-120			
Surrogate: Diazinon-d10	0.299			mg/kg	0.330	NA	90.4	50-120			

Matrix Spike (B9F0342-MS1)

Source: 0902879-07

Prepared: 06/17/09 Analyzed: 06/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.300	0.051	0.013	mg/kg dry	0.419	ND	71.6	50-110	NA	NA	
Alachlor	0.307	0.051	0.0089	mg/kg dry	0.419	ND	73.3	40-110	NA	NA	
Atrazine	0.324	0.051	0.013	mg/kg dry	0.419	ND	77.5	45-115	NA	NA	
Chlorpyrifos	0.236	0.051	0.0089	mg/kg dry	0.419	ND	56.3	30-125	NA	NA	
Cyanazine	0.353	0.051	0.010	mg/kg dry	0.419	ND	84.4	30-125	NA	NA	
Deisopropylatrazine	0.305	0.051	0.010	mg/kg dry	0.419	ND	72.9	30-125	NA	NA	
Desethylatrazine	0.363	0.051	0.014	mg/kg dry	0.419	ND	86.7	30-125	NA	NA	
Dimethenamid	0.313	0.051	0.0076	mg/kg dry	0.419	ND	74.8	55-110	NA	NA	
EPTC	0.256	0.051	0.0076	mg/kg dry	0.419	ND	61.2	40-105	NA	NA	
Ethalfuralin	0.233	0.051	0.018	mg/kg dry	0.419	ND	55.6	30-125	NA	NA	
Fonofos	0.264	0.051	0.0051	mg/kg dry	0.419	ND	63.1	30-120	NA	NA	
Metolachlor	0.364	0.051	0.0038	mg/kg dry	0.419	0.0809	67.7	40-115	NA	NA	
Metribuzin	0.298	0.051	0.011	mg/kg dry	0.419	ND	71.3	40-115	NA	NA	
Pendimethalin	0.243	0.051	0.020	mg/kg dry	0.419	0.0263	51.8	30-115	NA	NA	
Phorate	0.239	0.051	0.0076	mg/kg dry	0.419	ND	57.1	35-110	NA	NA	
Prometon	0.310	0.051	0.0076	mg/kg dry	0.419	ND	74.0	50-115	NA	NA	
Propachlor	0.321	0.051	0.011	mg/kg dry	0.419	ND	76.8	55-110	NA	NA	
Propazine	0.298	0.051	0.0089	mg/kg dry	0.419	ND	71.1	30-125	NA	NA	
Simazine	0.277	0.051	0.011	mg/kg dry	0.419	ND	66.1	40-115	NA	NA	
Terbufos	0.222	0.051	0.011	mg/kg dry	0.419	ND	53.1	30-125	NA	NA	
Triallate	0.223	0.051	0.0064	mg/kg dry	0.419	ND	53.4	30-110	NA	NA	
Trifluralin	0.481	0.051	0.018	mg/kg dry	0.419	0.297	43.8	30-120	NA	NA	
Surrogate: Atrazine-d5	0.304			mg/kg dry	0.419	NA	72.7	70-120			
Surrogate: Diazinon-d10	0.238			mg/kg dry	0.419	NA	56.8	50-120			

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Client Ref: UMore Park
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PO Number:

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Project Mgr: Steven J. Albrecht
Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0342 - EPA 3545

Matrix Spike Duplicate (B9F0342-MSD1)

Source: 0902879-07

Prepared: 06/17/09 Analyzed: 06/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.318	0.051	0.013	mg/kg dry	0.423	ND	75.2	50-110	5.93	25	
Alachlor	0.330	0.051	0.0089	mg/kg dry	0.423	ND	78.0	40-110	7.24	25	
Atrazine	0.356	0.051	0.013	mg/kg dry	0.423	ND	84.1	45-115	9.19	25	
Chlorpyrifos	0.240	0.051	0.0089	mg/kg dry	0.423	ND	56.8	30-125	1.91	35	
Cyanazine	0.388	0.051	0.010	mg/kg dry	0.423	ND	91.7	30-125	9.31	25	
Deisopropylatrazine	0.339	0.051	0.010	mg/kg dry	0.423	ND	80.2	30-125	10.6	25	
Desethylatrazine	0.403	0.051	0.014	mg/kg dry	0.423	ND	95.2	30-125	10.4	25	
Dimethenamid	0.340	0.051	0.0076	mg/kg dry	0.423	ND	80.3	55-110	8.12	25	
EPTC	0.281	0.051	0.0076	mg/kg dry	0.423	ND	66.5	40-105	9.32	25	
Ethalfuralin	0.247	0.051	0.018	mg/kg dry	0.423	ND	58.4	30-125	5.94	35	
Fonofos	0.282	0.051	0.0051	mg/kg dry	0.423	ND	66.7	30-120	6.57	35	
Metolachlor	0.399	0.051	0.0038	mg/kg dry	0.423	0.0809	75.3	40-115	9.18	25	
Metribuzin	0.316	0.051	0.011	mg/kg dry	0.423	ND	74.8	40-115	5.82	25	
Pendimethalin	0.255	0.051	0.020	mg/kg dry	0.423	0.0263	54.0	30-115	4.58	35	
Phorate	0.260	0.051	0.0076	mg/kg dry	0.423	ND	61.4	35-110	8.28	35	
Prometon	0.324	0.051	0.0076	mg/kg dry	0.423	ND	76.6	50-115	4.48	25	
Propachlor	0.358	0.051	0.011	mg/kg dry	0.423	ND	84.6	55-110	10.7	25	
Propazine	0.331	0.051	0.0089	mg/kg dry	0.423	ND	78.4	30-125	10.8	25	
Simazine	0.310	0.051	0.011	mg/kg dry	0.423	ND	73.2	40-115	11.2	25	
Terbufos	0.238	0.051	0.011	mg/kg dry	0.423	ND	56.3	30-125	6.88	35	
Triallate	0.235	0.051	0.0064	mg/kg dry	0.423	ND	55.5	30-110	4.88	35	
Trifluralin	0.512	0.051	0.018	mg/kg dry	0.423	0.297	50.8	30-120	6.28	35	
Surrogate: Atrazine-d5	0.341			mg/kg dry	0.423	NA	80.7	70-120			
Surrogate: Diazinon-d10	0.300			mg/kg dry	0.423	NA	70.9	50-120			

Batch B9F0350 - EPA 3520C

Method Blank (B9F0350-BLK1)

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	ND	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Alachlor	ND	0.50	0.19	ug/L	NA	NA	NA	NA	NA	NA	
Atrazine	ND	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	ND	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Cyanazine	ND	0.50	0.48	ug/L	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	ND	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
Desethylatrazine	ND	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Dimethenamid	ND	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
EPTC	ND	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Ethalfuralin	ND	0.50	0.47	ug/L	NA	NA	NA	NA	NA	NA	
Fonofos	ND	0.50	0.30	ug/L	NA	NA	NA	NA	NA	NA	
Metolachlor	ND	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
Metribuzin	ND	0.50	0.35	ug/L	NA	NA	NA	NA	NA	NA	
Pendimethalin	ND	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Phorate	ND	1.0	0.58	ug/L	NA	NA	NA	NA	NA	NA	

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Client Ref: UMore Park
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PO Number:

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Project Mgr: Steven J. Albrecht
Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0350 - EPA 3520C

Method Blank (B9F0350-BLK1)

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	ND	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Propachlor	ND	0.50	0.14	ug/L	NA	NA	NA	NA	NA	NA	
Propazine	ND	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Simazine	ND	0.50	0.32	ug/L	NA	NA	NA	NA	NA	NA	
Terbufos	ND	1.0	0.54	ug/L	NA	NA	NA	NA	NA	NA	
Triallate	ND	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Trifluralin	ND	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	9.41			ug/L	10.0	NA	94.1	50-120			
Surrogate: Diazinon-d10	8.87			ug/L	10.0	NA	88.7	50-120			

Laboratory Control Sample (B9F0350-BS1)

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	9.15	0.50	0.25	ug/L	10.0	NA	91.5	65-115	NA	NA	
Alachlor	9.01	0.50	0.19	ug/L	10.0	NA	90.1	65-115	NA	NA	
Atrazine	8.93	0.50	0.24	ug/L	10.0	NA	89.3	65-115	NA	NA	
Chlorpyrifos	8.76	0.50	0.34	ug/L	10.0	NA	87.6	65-115	NA	NA	
Cyanazine	10.5	0.50	0.48	ug/L	10.0	NA	105	65-115	NA	NA	
Deisopropylatrazine	8.02	0.50	0.26	ug/L	10.0	NA	80.2	65-115	NA	NA	
Desethylatrazine	9.52	0.50	0.29	ug/L	10.0	NA	95.2	65-115	NA	NA	
Dimethenamid	8.84	0.50	0.24	ug/L	10.0	NA	88.4	65-115	NA	NA	
EPTC	5.27	0.50	0.22	ug/L	10.0	NA	52.7	50-110	NA	NA	
Ethalfuralin	8.01	0.50	0.47	ug/L	10.0	NA	80.1	65-115	NA	NA	
Fonofos	7.16	0.50	0.30	ug/L	10.0	NA	71.6	55-115	NA	NA	
Metolachlor	9.43	0.50	0.28	ug/L	10.0	NA	94.3	70-120	NA	NA	
Metribuzin	9.33	0.50	0.35	ug/L	10.0	NA	93.3	70-120	NA	NA	
Pendimethalin	8.51	0.50	0.25	ug/L	10.0	NA	85.1	65-115	NA	NA	
Phorate	0.940 J	1.0	0.58	ug/L	10.0	NA	9.40	30-100	NA	NA	
Prometon	9.50	0.50	0.29	ug/L	10.0	NA	95.0	70-120	NA	NA	
Propachlor	7.67	0.50	0.14	ug/L	10.0	NA	76.7	65-115	NA	NA	
Propazine	8.65	0.50	0.21	ug/L	10.0	NA	86.5	65-115	NA	NA	
Simazine	7.92	0.50	0.32	ug/L	10.0	NA	79.2	65-115	NA	NA	
Terbufos	1.21	1.0	0.54	ug/L	10.0	NA	12.1	30-100	NA	NA	
Triallate	7.68	0.50	0.34	ug/L	10.0	NA	76.8	65-115	NA	NA	
Trifluralin	7.34	0.50	0.21	ug/L	10.0	NA	73.4	65-115	NA	NA	
Surrogate: Atrazine-d5	8.36			ug/L	10.0	NA	83.6	50-120			
Surrogate: Diazinon-d10	8.02			ug/L	10.0	NA	80.2	50-120			

Barr Engineering Company
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Client Ref: UMore Park
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0350 - EPA 3520C

Laboratory Control Sample Duplicate (B9F0350-BSD1)

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	9.05	0.50	0.25	ug/L	10.0	NA	90.5	65-115	1.10	25	
Alachlor	8.94	0.50	0.19	ug/L	10.0	NA	89.4	65-115	0.780	25	
Atrazine	8.63	0.50	0.24	ug/L	10.0	NA	86.3	65-115	3.42	25	
Chlorpyrifos	8.86	0.50	0.34	ug/L	10.0	NA	88.6	65-115	1.14	25	
Cyanazine	9.85	0.50	0.48	ug/L	10.0	NA	98.5	65-115	6.29	25	
Deisopropylatrazine	7.65	0.50	0.26	ug/L	10.0	NA	76.5	65-115	4.72	25	
Desethylatrazine	9.26	0.50	0.29	ug/L	10.0	NA	92.6	65-115	2.77	25	
Dimethenamid	8.84	0.50	0.24	ug/L	10.0	NA	88.4	65-115	0.00	25	
EPTC	6.23	0.50	0.22	ug/L	10.0	NA	62.3	50-110	16.7	30	
Ethalfuralin	8.74	0.50	0.47	ug/L	10.0	NA	87.4	65-115	8.72	30	
Fonofos	8.38	0.50	0.30	ug/L	10.0	NA	83.8	55-115	15.7	30	
Metolachlor	9.02	0.50	0.28	ug/L	10.0	NA	90.2	70-120	4.44	25	
Metribuzin	8.94	0.50	0.35	ug/L	10.0	NA	89.4	70-120	4.27	25	
Pendimethalin	8.16	0.50	0.25	ug/L	10.0	NA	81.6	65-115	4.20	25	
Phorate	4.76	1.0	0.58	ug/L	10.0	NA	47.6	30-100	134	30	
Prometon	9.22	0.50	0.29	ug/L	10.0	NA	92.2	70-120	2.99	30	
Propachlor	8.49	0.50	0.14	ug/L	10.0	NA	84.9	65-115	10.1	30	
Propazine	8.49	0.50	0.21	ug/L	10.0	NA	84.9	65-115	1.87	25	
Simazine	7.60	0.50	0.32	ug/L	10.0	NA	76.0	65-115	4.12	25	
Terbufos	4.95	1.0	0.54	ug/L	10.0	NA	49.5	30-100	121	30	
Triallate	8.08	0.50	0.34	ug/L	10.0	NA	80.8	65-115	5.08	25	
Trifluralin	8.11	0.50	0.21	ug/L	10.0	NA	81.1	65-115	9.97	25	
Surrogate: Atrazine-d5	8.17			ug/L	10.0	NA	81.7	50-120			
Surrogate: Diazinon-d10	8.28			ug/L	10.0	NA	82.8	50-120			

Matrix Spike (B9F0350-MS1)

Source: 0902881-03RE1

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.8	0.63	0.32	ug/L	12.7	ND	85.7	65-115	NA	NA	
Alachlor	10.4	0.63	0.24	ug/L	12.7	ND	82.2	65-115	NA	NA	
Atrazine	10.0	0.63	0.30	ug/L	12.7	ND	79.1	65-115	NA	NA	
Chlorpyrifos	10.2	0.63	0.43	ug/L	12.7	ND	80.2	60-115	NA	NA	
Cyanazine	11.4	0.63	0.61	ug/L	12.7	ND	89.8	65-120	NA	NA	
Deisopropylatrazine	8.89	0.63	0.33	ug/L	12.7	ND	70.2	65-115	NA	NA	
Desethylatrazine	10.5	0.63	0.37	ug/L	12.7	ND	83.2	65-115	NA	NA	
Dimethenamid	10.2	0.63	0.30	ug/L	12.7	ND	80.7	65-120	NA	NA	
EPTC	7.92	0.63	0.27	ug/L	12.7	ND	62.6	50-110	NA	NA	
Ethalfuralin	11.0	0.63	0.59	ug/L	12.7	ND	86.9	65-115	NA	NA	
Fonofos	9.95	0.63	0.37	ug/L	12.7	ND	78.6	55-115	NA	NA	
Metolachlor	10.5	0.63	0.35	ug/L	12.7	ND	83.1	65-120	NA	NA	
Metribuzin	10.6	0.63	0.44	ug/L	12.7	ND	83.4	65-120	NA	NA	
Pendimethalin	9.39	0.63	0.32	ug/L	12.7	ND	74.2	60-115	NA	NA	
Phorate	4.58	1.3	0.74	ug/L	12.7	ND	36.2	30-100	NA	NA	
Prometon	10.5	0.63	0.37	ug/L	12.7	ND	83.2	70-120	NA	NA	
Propachlor	10.3	0.63	0.18	ug/L	12.7	ND	81.1	65-115	NA	NA	



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Client Ref: UMore Park
 Client Contact: Ms. Kelly Neppel
 PO Number:

Work Order #: 0902879
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0350 - EPA 3520C

Matrix Spike (B9F0350-MS1)

Source: 0902881-03RE1

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Propazine	10.0	0.63	0.26	ug/L	12.7	ND	79.1	65-115	NA	NA	
Simazine	8.76	0.63	0.40	ug/L	12.7	ND	69.2	60-115	NA	NA	
Terbufos	4.89	1.3	0.69	ug/L	12.7	ND	38.6	30-100	NA	NA	
Triallate	9.78	0.63	0.43	ug/L	12.7	ND	77.3	60-115	NA	NA	
Trifluralin	9.75	0.63	0.27	ug/L	12.7	ND	77.0	65-115	NA	NA	
Surrogate: Atrazine-d5	9.70			ug/L	12.7	NA	76.6	50-120			
Surrogate: Diazinon-d10	9.77			ug/L	12.7	NA	77.2	50-120			

Matrix Spike Duplicate (B9F0350-MSD1)

Source: 0902881-03RE1

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.9	0.63	0.32	ug/L	12.7	ND	86.1	65-115	0.466	30	
Alachlor	10.8	0.63	0.24	ug/L	12.7	ND	85.2	65-115	3.58	30	
Atrazine	10.3	0.63	0.30	ug/L	12.7	ND	81.3	65-115	2.74	30	
Chlorpyrifos	10.1	0.63	0.43	ug/L	12.7	ND	80.1	60-115	0.125	30	
Cyanazine	11.5	0.63	0.61	ug/L	12.7	ND	90.8	65-120	1.11	30	
Deisopropylatrazine	9.38	0.63	0.33	ug/L	12.7	ND	74.1	65-115	5.41	30	
Desethylatrazine	10.8	0.63	0.37	ug/L	12.7	ND	85.2	65-115	2.38	30	
Dimethenamid	10.4	0.63	0.30	ug/L	12.7	ND	81.9	65-120	1.48	30	
EPTC	8.09	0.63	0.27	ug/L	12.7	ND	63.9	50-110	2.06	30	
Ethalfuralin	10.5	0.63	0.59	ug/L	12.7	ND	83.2	65-115	4.35	30	
Fonofos	10.5	0.63	0.37	ug/L	12.7	ND	82.8	55-115	5.20	30	
Metolachlor	10.6	0.63	0.35	ug/L	12.7	ND	84.1	65-120	1.20	30	
Metribuzin	10.9	0.63	0.44	ug/L	12.7	ND	86.1	65-120	3.19	30	
Pendimethalin	9.20	0.63	0.32	ug/L	12.7	ND	72.7	60-115	2.04	30	
Phorate	9.32	1.3	0.74	ug/L	12.7	ND	73.6	30-100	68.1	30	
Prometon	10.6	0.63	0.37	ug/L	12.7	ND	84.0	70-120	0.957	30	
Propachlor	10.4	0.63	0.18	ug/L	12.7	ND	82.5	65-115	1.71	30	
Propazine	10.2	0.63	0.26	ug/L	12.7	ND	80.8	65-115	2.13	30	
Simazine	8.87	0.63	0.40	ug/L	12.7	ND	70.1	60-115	1.29	30	
Terbufos	9.19	1.3	0.69	ug/L	12.7	ND	72.6	30-100	61.2	30	
Triallate	9.76	0.63	0.43	ug/L	12.7	ND	77.1	60-115	0.259	30	
Trifluralin	9.62	0.63	0.27	ug/L	12.7	ND	76.0	65-115	1.31	30	
Surrogate: Atrazine-d5	9.76			ug/L	12.7	NA	77.1	50-120			
Surrogate: Diazinon-d10	9.71			ug/L	12.7	NA	76.7	50-120			

Barr Engineering Company
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Client Ref: UMore Park
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0321 - EPA 3510C

Method Blank (B9F0321-BLK1)

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	ND	0.50	0.31	ug/L	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	ND	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D	ND	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D.B.	ND	0.50	0.15	ug/L	NA	NA	NA	NA	NA	NA	
Bentazon	ND	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Dicamba	ND	0.50	0.38	ug/L	NA	NA	NA	NA	NA	NA	
Dinoseb	ND	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
M.C.P.A.	ND	0.30	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	ND	0.50	0.39	ug/L	NA	NA	NA	NA	NA	NA	
Picloram	ND	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Triclopyr	ND	0.50	0.41	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	4.23			ug/L	5.00	NA	84.6	65-130			

Laboratory Control Sample (B9F0321-BS1)

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	3.50	0.50	0.31	ug/L	5.00	NA	70.0	70-130	NA	NA	
2,4,5-T.P.	3.74	0.50	0.28	ug/L	5.00	NA	74.8	70-130	NA	NA	
2,4-D	3.67	0.50	0.26	ug/L	5.00	NA	73.4	70-130	NA	NA	
2,4-D.B.	3.98	0.50	0.15	ug/L	5.00	NA	79.6	75-140	NA	NA	
Bentazon	4.05	0.50	0.22	ug/L	5.00	NA	81.0	75-135	NA	NA	
Dicamba	3.63	0.50	0.38	ug/L	5.00	NA	72.6	65-130	NA	NA	
Dinoseb	2.85	0.50	0.34	ug/L	5.00	NA	57.0	40-125	NA	NA	
M.C.P.A.	3.68	0.30	0.29	ug/L	5.00	NA	73.6	70-130	NA	NA	
Pentachlorophenol	3.59	0.50	0.39	ug/L	5.00	NA	71.8	70-120	NA	NA	
Picloram	3.02	0.50	0.25	ug/L	5.00	NA	60.4	60-125	NA	NA	
Triclopyr	3.68	0.50	0.41	ug/L	5.00	NA	73.6	75-125	NA	NA	
Surrogate: D.C.A.A.	4.11			ug/L	5.00	NA	82.2	65-130			

Laboratory Control Sample Duplicate (B9F0321-BSD1)

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.21	0.50	0.31	ug/L	5.00	NA	84.2	70-130	18.4	20	
2,4,5-T.P.	4.33	0.50	0.28	ug/L	5.00	NA	86.6	70-130	14.6	20	
2,4-D	4.29	0.50	0.26	ug/L	5.00	NA	85.8	70-130	15.6	20	
2,4-D.B.	4.79	0.50	0.15	ug/L	5.00	NA	95.8	75-140	18.5	20	
Bentazon	4.85	0.50	0.22	ug/L	5.00	NA	97.0	75-135	18.0	20	
Dicamba	4.32	0.50	0.38	ug/L	5.00	NA	86.4	65-130	17.4	20	
Dinoseb	3.10	0.50	0.34	ug/L	5.00	NA	62.0	40-125	8.40	20	
M.C.P.A.	4.41	0.30	0.29	ug/L	5.00	NA	88.2	70-130	18.0	20	
Pentachlorophenol	4.17	0.50	0.39	ug/L	5.00	NA	83.4	70-120	14.9	20	
Picloram	3.70	0.50	0.25	ug/L	5.00	NA	74.0	60-125	20.2	20	
Triclopyr	4.23	0.50	0.41	ug/L	5.00	NA	84.6	75-125	13.9	20	
Surrogate: D.C.A.A.	4.60			ug/L	5.00	NA	92.0	65-130			



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Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore Park Client Contact: Ms. Kelly Neppel PO Number:	Work Order #: 0902879 Project Mgr: Steven J. Albrecht Account ID: B01058
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Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0321 - EPA 3510C

Laboratory Control Sample Duplicate (B9F0321-BSD1)

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Matrix Spike (B9F0321-MS1)

Source: 0902881-03

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	5.21	0.61	0.38	ug/L	6.10	ND	85.4	70-140	NA	NA	
2,4,5-T.P.	5.43	0.61	0.35	ug/L	6.10	ND	89.0	70-135	NA	NA	
2,4-D	5.02	0.61	0.32	ug/L	6.10	ND	82.4	70-140	NA	NA	
2,4-D.B.	5.60	0.61	0.18	ug/L	6.10	ND	91.8	75-140	NA	NA	
Bentazon	5.56	0.61	0.27	ug/L	6.10	ND	91.2	70-140	NA	NA	
Dicamba	5.21	0.61	0.46	ug/L	6.10	ND	85.4	65-140	NA	NA	
Dinoseb	4.17	0.61	0.42	ug/L	6.10	ND	68.4	40-130	NA	NA	
M.C.P.A.	4.76	0.37	0.36	ug/L	6.10	ND	78.0	60-140	NA	NA	
Pentachlorophenol	3.85	0.61	0.48	ug/L	6.10	ND	63.2	60-120	NA	NA	
Picloram	4.62	0.61	0.31	ug/L	6.10	ND	75.8	45-140	NA	NA	
Triclopyr	5.46	0.61	0.50	ug/L	6.10	ND	89.6	75-125	NA	NA	

Surrogate: D.C.A.A.

5.66 ug/L 6.10 NA 92.8 65-130

Matrix Spike Duplicate (B9F0321-MSD1)

Source: 0902881-03

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.60	0.56	0.35	ug/L	5.56	ND	82.8	70-140	12.4	25	
2,4,5-T.P.	4.52	0.56	0.32	ug/L	5.56	ND	81.4	70-135	18.2	25	
2,4-D	4.52	0.56	0.29	ug/L	5.56	ND	81.4	70-140	10.5	25	
2,4-D.B.	4.99	0.56	0.17	ug/L	5.56	ND	89.8	75-140	11.5	25	
Bentazon	4.78	0.56	0.25	ug/L	5.56	ND	86.0	70-140	15.2	25	
Dicamba	4.49	0.56	0.42	ug/L	5.56	ND	80.8	65-140	14.8	25	
Dinoseb	3.81	0.56	0.38	ug/L	5.56	ND	68.6	40-130	9.01	25	
M.C.P.A.	4.01	0.33	0.32	ug/L	5.56	ND	72.2	60-140	17.0	25	
Pentachlorophenol	3.63	0.56	0.44	ug/L	5.56	ND	65.4	60-120	5.89	25	
Picloram	3.98	0.56	0.28	ug/L	5.56	ND	71.6	45-140	15.0	25	
Triclopyr	4.70	0.56	0.45	ug/L	5.56	ND	84.6	75-125	15.0	25	

Surrogate: D.C.A.A.

4.80 ug/L 5.56 NA 86.4 65-130

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4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Park
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0485 - EPA 3545

Method Blank (B9F0485-BLK1)

Prepared: 06/24/09 Analyzed: 06/30/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	ND	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	ND	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D	ND	0.050	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D.B.	ND	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Bentazon	ND	0.050	0.0090	mg/kg	NA	NA	NA	NA	NA	NA	
Dicamba	ND	0.050	0.0080	mg/kg	NA	NA	NA	NA	NA	NA	
Dinoseb	ND	0.050	0.0050	mg/kg	NA	NA	NA	NA	NA	NA	
M.C.P.A.	ND	0.050	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	ND	0.050	0.0070	mg/kg	NA	NA	NA	NA	NA	NA	
Picloram	ND	0.050	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Triclopyr	ND	0.050	0.0060	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	0.148			mg/kg	0.164	NA	90.0	50-125			

Laboratory Control Sample (B9F0485-BS1)

Prepared: 06/24/09 Analyzed: 06/30/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.119	0.050	0.0090	mg/kg	0.165	NA	72.2	60-125	NA	NA	
2,4,5-T.P.	0.138	0.050	0.0070	mg/kg	0.165	NA	83.2	65-125	NA	NA	
2,4-D	0.112	0.050	0.012	mg/kg	0.165	NA	67.6	60-125	NA	NA	
2,4-D.B.	0.147	0.050	0.011	mg/kg	0.165	NA	88.6	70-130	NA	NA	
Bentazon	0.146	0.050	0.0090	mg/kg	0.165	NA	88.2	65-125	NA	NA	
Dicamba	0.120	0.050	0.0080	mg/kg	0.165	NA	72.4	60-120	NA	NA	
Dinoseb	0.0761	0.050	0.0050	mg/kg	0.165	NA	46.0	30-120	NA	NA	
M.C.P.A.	0.116	0.050	0.014	mg/kg	0.165	NA	70.2	60-115	NA	NA	
Pentachlorophenol	0.102	0.050	0.0070	mg/kg	0.165	NA	61.6	50-120	NA	NA	
Picloram	0.0404 J	0.050	0.011	mg/kg	0.165	NA	24.4	30-100	NA	NA	
Triclopyr	0.133	0.050	0.0060	mg/kg	0.165	NA	80.4	65-120	NA	NA	
Surrogate: D.C.A.A.	0.135			mg/kg	0.165	NA	81.6	50-125			

Laboratory Control Sample Duplicate (B9F0485-BSD1)

Prepared: 06/24/09 Analyzed: 06/30/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.132	0.050	0.0090	mg/kg	0.166	NA	79.4	60-125	10.1	25	
2,4,5-T.P.	0.143	0.050	0.0070	mg/kg	0.166	NA	86.0	65-125	3.87	25	
2,4-D	0.141	0.050	0.012	mg/kg	0.166	NA	85.0	60-125	23.4	25	
2,4-D.B.	0.156	0.050	0.011	mg/kg	0.166	NA	93.8	70-130	6.27	25	
Bentazon	0.157	0.050	0.0090	mg/kg	0.166	NA	94.2	65-125	7.14	25	
Dicamba	0.143	0.050	0.0080	mg/kg	0.166	NA	86.0	60-120	17.7	25	
Dinoseb	0.0855	0.050	0.0050	mg/kg	0.166	NA	51.4	30-120	11.7	25	
M.C.P.A.	0.134	0.050	0.014	mg/kg	0.166	NA	80.6	60-115	14.4	25	
Pentachlorophenol	0.124	0.050	0.0070	mg/kg	0.166	NA	74.6	50-120	19.6	25	
Picloram	0.0685	0.050	0.011	mg/kg	0.166	NA	41.2	30-100	51.7	25	
Triclopyr	0.146	0.050	0.0060	mg/kg	0.166	NA	88.0	65-120	9.59	25	
Surrogate: D.C.A.A.	0.139			mg/kg	0.166	NA	83.8	50-125			



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Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore Park Client Contact: Ms. Kelly Neppel PO Number:	Work Order #: 0902879 Project Mgr: Steven J. Albrecht Account ID: B01058
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Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0485 - EPA 3545

Laboratory Control Sample Duplicate (B9F0485-BSD1)

Prepared: 06/24/09 Analyzed: 06/30/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Matrix Spike (B9F0485-MS1)

Source: 0902879-07

Prepared: 06/24/09 Analyzed: 06/30/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.175	0.064	0.011	mg/kg dry	0.208	ND	84.2	30-130	NA	NA	
2,4,5-T.P.	0.186	0.064	0.0089	mg/kg dry	0.208	ND	89.4	40-130	NA	NA	
2,4-D	0.190	0.064	0.015	mg/kg dry	0.208	ND	91.2	30-125	NA	NA	
2,4-D.B.	0.200	0.064	0.014	mg/kg dry	0.208	ND	96.2	70-130	NA	NA	
Bentazon	0.201	0.064	0.011	mg/kg dry	0.208	ND	96.6	65-125	NA	NA	
Dicamba	0.182	0.064	0.010	mg/kg dry	0.208	ND	87.6	30-120	NA	NA	
Dinoseb	0.134	0.064	0.0064	mg/kg dry	0.208	ND	64.6	30-120	NA	NA	
M.C.P.A.	0.184	0.064	0.018	mg/kg dry	0.208	ND	88.4	30-120	NA	NA	
Pentachlorophenol	0.164	0.064	0.0089	mg/kg dry	0.208	ND	79.0	50-120	NA	NA	
Picloram	ND	0.064	0.014	mg/kg dry	0.208	ND	NA	30-100	NA	NA	
Triclopyr	0.181	0.064	0.0076	mg/kg dry	0.208	ND	87.0	30-120	NA	NA	

Surrogate: D.C.A.A.

0.187 mg/kg dry 0.208 NA 89.8 50-125

Matrix Spike Duplicate (B9F0485-MSD1)

Source: 0902879-07

Prepared: 06/24/09 Analyzed: 06/30/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.164	0.064	0.011	mg/kg dry	0.210	ND	78.4	30-130	6.44	25	
2,4,5-T.P.	0.183	0.064	0.0089	mg/kg dry	0.210	ND	87.4	40-130	1.57	25	
2,4-D	0.176	0.064	0.015	mg/kg dry	0.210	ND	83.8	30-125	7.77	25	
2,4-D.B.	0.195	0.064	0.014	mg/kg dry	0.210	ND	93.0	70-130	2.69	25	
Bentazon	0.195	0.064	0.011	mg/kg dry	0.210	ND	93.0	65-125	3.11	25	
Dicamba	0.179	0.064	0.010	mg/kg dry	0.210	ND	85.4	30-120	1.85	25	
Dinoseb	0.125	0.064	0.0064	mg/kg dry	0.210	ND	59.4	30-120	7.70	25	
M.C.P.A.	0.188	0.064	0.018	mg/kg dry	0.210	ND	89.6	30-120	2.04	25	
Pentachlorophenol	0.159	0.064	0.0089	mg/kg dry	0.210	ND	76.0	50-120	3.18	25	
Picloram	0.0218 J	0.064	0.014	mg/kg dry	0.210	ND	10.4	30-100	NA	25	
Triclopyr	0.192	0.064	0.0076	mg/kg dry	0.210	ND	91.4	30-120	5.62	25	

Surrogate: D.C.A.A.

0.189 mg/kg dry 0.210 NA 90.0 50-125

BRAUN INTERTEC

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Minneapolis, MN 55438
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Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Park
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902879
Project Mgr: Steven J. Albrecht
Account ID: B01058

0902879

Chain of Custody				Number of Containers/Preservative														COC <u>1</u> of <u>1</u>					
BARR 4700 West 77th Street Minneapolis, MN 55435-4803 (952) 832-2600				Water							Soil							Project Manager: <u>JME</u>					
Project Number <u>23/19-BOS-50.C35.0</u>				Volatile Organics (Pres.) *1							VOCs (2-oz lared MeOH) *7							Project Contact: <u>KSN</u>					
Project Name <u>UMore Park</u> No <u>28508</u>				Semivolatile Organics *2							GRO, BTEX (2-oz lared MeOH) *9							Sampled by: <u>ESC</u>					
Sample Identification	Collection		Matrix			Type	OC	Dissolved Metals (HNO ₃)	Total Metals (HNO ₃)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H ₂ SO ₄) *4	Oil and Grease (H ₂ SO ₄)	Sulfide (Zn Acetate)	Merhane	Bacteria (Na ₂ S ₂ O ₃)	DRO (HCl)	Pesticides	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)	Total No. Of Containers	Laboratory: <u>Braun</u>
	Date	Time	Water	Soil	Grab																		
1. GP-EB-1(water)	6/10/09	1200	X																		3	Remarks: Pest H ₂ Method 8270C	
2. SOC3-GP3	6/10/09	1130	X		X																3		
3. SS1	6/11/09	1500	X	X															1	2	3		
4. SS2	6/11/09	1530	X	X															1	2	3		
5. SS3	6/11/09	1545	X	X															1	2	3		
6. SS4	6/11/09	1615	X	X															1	2	3		
7. SS5	6/11/09	1700	X	X															1	2	3		
8. SS5 (MS)	6/11/09	1705	X		X														1	2	3		
9. SS5 (MSD)	6/11/09	1710	Y		X														1	2	3		
10.																							CH2: 3.0°C
11.																							CH#: 2.6°C +165
12.																							

Common Parameter/Container - Preservation Key
 *1 - Volatile Organics = BTEX, GRO, TPH, Full List
 *2 - Semivolatile Organics = PAHs, PCB, Dioxins, Full List, Herbicide/Pesticide/PCBs
 *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
 *4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By: [Signature] On Ice? N Date/Time: 6/11/09 2130
 Received By: [Signature] Date/Time: 6/12/09 1100

Samples Shipped Via: Air Freight Federal Express Sampler Other _____
 Air Bill Number: _____

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

BRAUN **INTERTEC**

Braun Intertec Corporation
11001 Hampshire Avenue S.
Minneapolis, MN 55438

Phone: 952.995.2000
Fax: 952.995.2020
Web: braunintertec.com

Ms. Kelly Nepl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

August 12, 2009

Work Order #: 0902881
(Revised)

RE: [none]

Dear Kelly Nepl:

Braun Intertec Corporation received samples for the project identified above on June 12, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,



Steven J. Albrecht
Associate Principal



Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117

Wisconsin DNR: 999462640

Providing engineering and environmental solutions since 1957

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: [none]
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902881
Project Mgr: Steven J. Albrecht
Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up as bolded. They are considered "hits." The MDL is a statistically derived number that indicates, with high confidence, that an analyte can be detected above noise level. If a result is less than this value it is marked as "ND" for "Non-Detect." If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate. This is consistent with the *CLP Statement of Work* and the *National Functional Guidelines*.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: [none]
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902881
Project Mgr: Steven J. Albrecht
Account ID: B01058

Qualifiers and Abbreviations

vn	The surrogate recovery is below the laboratory generated control limits.
sur	One or more surrogate recoveries reported with this sample analysis are outside of the laboratory control limits.
qo	The relative percent difference (RPD) was outside of laboratory control limits for the matrix spike (MS) and matrix spike duplicate (MSD) samples.
J	Detected but below the Method Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
gp	The relative percent difference (RPD) for the laboratory control sample and laboratory control sample duplicate is outside of laboratory control limits.
go	The laboratory control sample recovery is outside of laboratory control limits.
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: [none]
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902881
Project Mgr: Steven J. Albrecht
Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-B1-001	0902881-01	Water	06/11/09 10:55	06/12/09 11:00
MW-E2-209	0902881-02	Water	06/11/09 13:10	06/12/09 11:00
MW-E2-009	0902881-03	Water	06/11/09 14:35	06/12/09 11:00
WSW-207605	0902881-04	Water	06/11/09 16:35	06/12/09 11:00

Barr Engineering Company
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Minneapolis, MN 55435-4803

Client Ref: [none]
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902881
Project Mgr: Steven J. Albrecht
Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler 2

Temperature: 1.3 °C
COC Included: Yes
Custody Seals Used: No
Custody Seals Intact: NA

Received on Ice: Yes
Hand Delivered by Sampler: No
Sufficient Sample Provided: Yes
Headspace Present (VOC): No

Preservation Confirmed: No
Temperature Blank: Yes
COC Complete: Yes
COC & Labels Agree: Yes

Cooler: Cooler #1

Temperature: 0.8 °C
COC Included: Yes
Custody Seals Used: No
Custody Seals Intact: NA

Received on Ice: Yes
Hand Delivered by Sampler: No
Sufficient Sample Provided: Yes
Headspace Present (VOC): No

Preservation Confirmed: No
Temperature Blank: Yes
COC Complete: Yes
COC & Labels Agree: Yes

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: [none]
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902881
Project Mgr: Steven J. Albrecht
Account ID: B01058

MW-B1-001
0902881-01 (Water)
6/11/09 10:55

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.50	0.25	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Alachlor	ND	0.50	0.19	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Atrazine	ND	0.50	0.24	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Chlorpyrifos	ND	0.50	0.34	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Cyanazine	ND	0.50	0.48	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Deisopropylatrazine	ND	0.50	0.26	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Desethylatrazine	ND	0.50	0.29	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Dimethenamid	ND	0.50	0.24	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
EPTC	ND	0.50	0.22	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Ethalfuralin	ND	0.50	0.47	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Fonofos	ND	0.50	0.30	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Metolachlor	ND	0.50	0.28	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Metribuzin	ND	0.50	0.35	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Pendimethalin	ND	0.50	0.25	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Phorate	ND	1.0	0.58	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	go, gp, qo
Prometon	ND	0.50	0.29	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Propachlor	ND	0.50	0.14	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Propazine	ND	0.50	0.21	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Simazine	ND	0.50	0.32	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Terbufos	ND	1.0	0.54	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	go, gp, qo
Triallate	ND	0.50	0.34	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Trifluralin	ND	0.50	0.21	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Surrogate: Atrazine-d5	85.3 %	Limits: 50-120%			B9F0350	6/17/09	6/23/09	EPA 8270C	
Surrogate: Diazinon-d10	87.9 %	Limits: 50-120%			B9F0350	6/17/09	6/23/09	EPA 8270C	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.50	0.31	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4,5-T.P.	ND	0.50	0.28	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4-D	ND	0.50	0.26	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4-D.B.	ND	0.50	0.15	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Bentazon	ND	0.50	0.22	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Dicamba	ND	0.50	0.38	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Dinoseb	ND	0.50	0.34	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
M.C.P.A.	ND	0.30	0.29	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
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Client Ref: [none]
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0902881
Project Mgr: Steven J. Albrecht
Account ID: B01058

MW-B1-001
0902881-01 (Water)
6/11/09 10:55

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Pentachlorophenol	ND	0.50	0.39	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Picloram	ND	0.50	0.25	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	gp
Triclopyr	ND	0.50	0.41	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	go
<i>Surrogate: D.C.A.A.</i>	85.4 %	<i>Limits: 65-130%</i>			<i>B9F0321</i>	<i>6/16/09</i>	<i>6/23/09</i>	<i>EPA 8270C</i>	

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Client Ref: [none]
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0902881
Project Mgr: Steven J. Albrecht
Account ID: B01058

MW-E2-209
0902881-02 (Water)
6/11/09 13:10

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.50	0.25	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Alachlor	ND	0.50	0.19	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Atrazine	ND	0.50	0.24	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Chlorpyrifos	ND	0.50	0.34	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Cyanazine	ND	0.50	0.48	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Deisopropylatrazine	ND	0.50	0.26	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Desethylatrazine	ND	0.50	0.29	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Dimethenamid	ND	0.50	0.24	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
EPTC	ND	0.50	0.22	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Ethalfuralin	ND	0.50	0.47	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Fonofos	ND	0.50	0.30	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Metolachlor	ND	0.50	0.28	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Metribuzin	ND	0.50	0.35	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Pendimethalin	ND	0.50	0.25	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Phorate	ND	1.0	0.58	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	go, gp, qo
Prometon	ND	0.50	0.29	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Propachlor	ND	0.50	0.14	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Propazine	ND	0.50	0.21	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Simazine	ND	0.50	0.32	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Terbufos	ND	1.0	0.54	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	go, gp, qo
Triallate	ND	0.50	0.34	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Trifluralin	ND	0.50	0.21	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Surrogate: Atrazine-d5	84.7 %	Limits: 50-120%			B9F0350	6/17/09	6/23/09	EPA 8270C	
Surrogate: Diazinon-d10	89.0 %	Limits: 50-120%			B9F0350	6/17/09	6/23/09	EPA 8270C	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.50	0.31	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4,5-T.P.	ND	0.50	0.28	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4-D	ND	0.50	0.26	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4-D.B.	ND	0.50	0.15	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Bentazon	ND	0.50	0.22	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Dicamba	ND	0.50	0.38	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Dinoseb	ND	0.50	0.34	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
M.C.P.A.	ND	0.30	0.29	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
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Client Ref: [none]
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902881
Project Mgr: Steven J. Albrecht
Account ID: B01058

MW-E2-209
0902881-02 (Water)
6/11/09 13:10

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Pentachlorophenol	ND	0.50	0.39	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Picloram	ND	0.50	0.25	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	gp
Triclopyr	ND	0.50	0.41	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	go
<i>Surrogate: D.C.A.A.</i>	83.6 %	<i>Limits: 65-130%</i>			<i>B9F0321</i>	<i>6/16/09</i>	<i>6/23/09</i>	<i>EPA 8270C</i>	

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Client Ref: [none]
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902881
Project Mgr: Steven J. Albrecht
Account ID: B01058

MW-E2-009
0902881-03 (Water)
6/11/09 14:35

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.60	0.30	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Alachlor	ND	0.60	0.23	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Atrazine	ND	0.60	0.29	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Chlorpyrifos	ND	0.60	0.41	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Cyanazine	ND	0.60	0.58	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Deisopropylatrazine	ND	0.60	0.31	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Desethylatrazine	ND	0.60	0.35	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Dimethenamid	ND	0.60	0.28	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
EPTC	ND	0.60	0.26	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Ethalfuralin	ND	0.60	0.56	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Fonofos	ND	0.60	0.36	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Metolachlor	ND	0.60	0.33	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Metribuzin	ND	0.60	0.42	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Pendimethalin	ND	0.60	0.30	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Phorate	ND	1.2	0.70	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	go, gp, qo
Prometon	ND	0.60	0.35	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Propachlor	ND	0.60	0.17	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Propazine	ND	0.60	0.25	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Simazine	ND	0.60	0.38	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Terbufos	ND	1.2	0.65	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	go, gp, qo
Triallate	ND	0.60	0.41	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Trifluralin	ND	0.60	0.26	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Surrogate: Atrazine-d5	90.4 %	Limits: 50-120%			B9F0350	6/17/09	6/23/09	EPA 8270C	
Surrogate: Diazinon-d10	92.8 %	Limits: 50-120%			B9F0350	6/17/09	6/23/09	EPA 8270C	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.59	0.37	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4,5-T.P.	ND	0.59	0.33	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4-D	ND	0.59	0.31	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4-D.B.	ND	0.59	0.18	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Bentazon	ND	0.59	0.26	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Dicamba	ND	0.59	0.45	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Dinoseb	ND	0.59	0.40	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
M.C.P.A.	ND	0.35	0.34	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
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Client Ref: [none]
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0902881
Project Mgr: Steven J. Albrecht
Account ID: B01058

MW-E2-009
0902881-03 (Water)
6/11/09 14:35

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Pentachlorophenol	ND	0.59	0.46	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Picloram	ND	0.59	0.30	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	gp
Triclopyr	ND	0.59	0.48	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	go
<i>Surrogate: D.C.A.A.</i>	<i>78.8 %</i>	<i>Limits: 65-130%</i>			<i>B9F0321</i>	<i>6/16/09</i>	<i>6/23/09</i>	<i>EPA 8270C</i>	

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Project Mgr: Steven J. Albrecht
Account ID: B01058

WSW-207605
0902881-04 (Water)
6/11/09 16:35

Neutral Extractable Pesticides (MDA List 1)

sur

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.50	0.25	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Alachlor	ND	0.50	0.19	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Atrazine	ND	0.50	0.24	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Chlorpyrifos	ND	0.50	0.34	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Cyanazine	ND	0.50	0.48	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Deisopropylatrazine	ND	0.50	0.26	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Desethylatrazine	ND	0.50	0.29	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Dimethenamid	ND	0.50	0.24	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
EPTC	ND	0.50	0.22	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Ethalfuralin	ND	0.50	0.47	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Fonofos	ND	0.50	0.30	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Metolachlor	ND	0.50	0.28	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Metribuzin	ND	0.50	0.35	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Pendimethalin	ND	0.50	0.25	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Phorate	ND	1.0	0.58	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	go, gp, qo
Prometon	ND	0.50	0.29	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Propachlor	ND	0.50	0.14	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Propazine	ND	0.50	0.21	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Simazine	ND	0.50	0.32	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Terbufos	ND	1.0	0.54	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	go, gp, qo
Triallate	ND	0.50	0.34	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Trifluralin	ND	0.50	0.21	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Surrogate: Atrazine-d5	25.2 %	Limits: 50-120%			B9F0350	6/17/09	6/23/09	EPA 8270C	vn
Surrogate: Diazinon-d10	25.5 %	Limits: 50-120%			B9F0350	6/17/09	6/23/09	EPA 8270C	vn

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.50	0.31	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4,5-T.P.	ND	0.50	0.28	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4-D	ND	0.50	0.26	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4-D.B.	ND	0.50	0.15	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Bentazon	ND	0.50	0.22	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Dicamba	ND	0.50	0.38	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Dinoseb	ND	0.50	0.34	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
M.C.P.A.	ND	0.30	0.29	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	

Barr Engineering Company
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Work Order #: 0902881
Project Mgr: Steven J. Albrecht
Account ID: B01058

WSW-207605
0902881-04 (Water)
6/11/09 16:35

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Pentachlorophenol	ND	0.50	0.39	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Picloram	ND	0.50	0.25	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	gp
Triclopyr	ND	0.50	0.41	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	go
<i>Surrogate: D.C.A.A.</i>	<i>91.2 %</i>	<i>Limits: 65-130%</i>			<i>B9F0321</i>	<i>6/16/09</i>	<i>6/23/09</i>	<i>EPA 8270C</i>	

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Client Ref: [none]
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Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0350 - EPA 3520C

Method Blank (B9F0350-BLK1)

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	ND	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Alachlor	ND	0.50	0.19	ug/L	NA	NA	NA	NA	NA	NA	
Atrazine	ND	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	ND	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Cyanazine	ND	0.50	0.48	ug/L	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	ND	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
Desethylatrazine	ND	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Dimethenamid	ND	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
EPTC	ND	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Ethalfuralin	ND	0.50	0.47	ug/L	NA	NA	NA	NA	NA	NA	
Fonofos	ND	0.50	0.30	ug/L	NA	NA	NA	NA	NA	NA	
Metolachlor	ND	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
Metribuzin	ND	0.50	0.35	ug/L	NA	NA	NA	NA	NA	NA	
Pendimethalin	ND	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Phorate	ND	1.0	0.58	ug/L	NA	NA	NA	NA	NA	NA	
Prometon	ND	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Propachlor	ND	0.50	0.14	ug/L	NA	NA	NA	NA	NA	NA	
Propazine	ND	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Simazine	ND	0.50	0.32	ug/L	NA	NA	NA	NA	NA	NA	
Terbufos	ND	1.0	0.54	ug/L	NA	NA	NA	NA	NA	NA	
Triallate	ND	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Trifluralin	ND	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	9.41			ug/L	10.0	NA	94.1	50-120			
Surrogate: Diazinon-d10	8.87			ug/L	10.0	NA	88.7	50-120			

Laboratory Control Sample (B9F0350-BS1)

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	9.15	0.50	0.25	ug/L	10.0	NA	91.5	65-115	NA	NA	
Alachlor	9.01	0.50	0.19	ug/L	10.0	NA	90.1	65-115	NA	NA	
Atrazine	8.93	0.50	0.24	ug/L	10.0	NA	89.3	65-115	NA	NA	
Chlorpyrifos	8.76	0.50	0.34	ug/L	10.0	NA	87.6	65-115	NA	NA	
Cyanazine	10.5	0.50	0.48	ug/L	10.0	NA	105	65-115	NA	NA	
Deisopropylatrazine	8.02	0.50	0.26	ug/L	10.0	NA	80.2	65-115	NA	NA	
Desethylatrazine	9.52	0.50	0.29	ug/L	10.0	NA	95.2	65-115	NA	NA	
Dimethenamid	8.84	0.50	0.24	ug/L	10.0	NA	88.4	65-115	NA	NA	
EPTC	5.27	0.50	0.22	ug/L	10.0	NA	52.7	50-110	NA	NA	
Ethalfuralin	8.01	0.50	0.47	ug/L	10.0	NA	80.1	65-115	NA	NA	
Fonofos	7.16	0.50	0.30	ug/L	10.0	NA	71.6	55-115	NA	NA	
Metolachlor	9.43	0.50	0.28	ug/L	10.0	NA	94.3	70-120	NA	NA	
Metribuzin	9.33	0.50	0.35	ug/L	10.0	NA	93.3	70-120	NA	NA	
Pendimethalin	8.51	0.50	0.25	ug/L	10.0	NA	85.1	65-115	NA	NA	
Phorate	0.940 J	1.0	0.58	ug/L	10.0	NA	9.40	30-100	NA	NA	
Prometon	9.50	0.50	0.29	ug/L	10.0	NA	95.0	70-120	NA	NA	
Propachlor	7.67	0.50	0.14	ug/L	10.0	NA	76.7	65-115	NA	NA	



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Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: [none] Client Contact: Ms. Kelly Neppel PO Number:	Work Order #: 0902881 Project Mgr: Steven J. Albrecht Account ID: B01058
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Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0350 - EPA 3520C

Laboratory Control Sample (B9F0350-BS1)

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Propazine	8.65	0.50	0.21	ug/L	10.0	NA	86.5	65-115	NA	NA	
Simazine	7.92	0.50	0.32	ug/L	10.0	NA	79.2	65-115	NA	NA	
Terbufos	1.21	1.0	0.54	ug/L	10.0	NA	12.1	30-100	NA	NA	
Triallate	7.68	0.50	0.34	ug/L	10.0	NA	76.8	65-115	NA	NA	
Trifluralin	7.34	0.50	0.21	ug/L	10.0	NA	73.4	65-115	NA	NA	
Surrogate: Atrazine-d5	8.36			ug/L	10.0	NA	83.6	50-120			
Surrogate: Diazinon-d10	8.02			ug/L	10.0	NA	80.2	50-120			

Laboratory Control Sample Duplicate (B9F0350-BSD1)

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	9.05	0.50	0.25	ug/L	10.0	NA	90.5	65-115	1.10	25	
Alachlor	8.94	0.50	0.19	ug/L	10.0	NA	89.4	65-115	0.780	25	
Atrazine	8.63	0.50	0.24	ug/L	10.0	NA	86.3	65-115	3.42	25	
Chlorpyrifos	8.86	0.50	0.34	ug/L	10.0	NA	88.6	65-115	1.14	25	
Cyanazine	9.85	0.50	0.48	ug/L	10.0	NA	98.5	65-115	6.29	25	
Deisopropylatrazine	7.65	0.50	0.26	ug/L	10.0	NA	76.5	65-115	4.72	25	
Desethylatrazine	9.26	0.50	0.29	ug/L	10.0	NA	92.6	65-115	2.77	25	
Dimethenamid	8.84	0.50	0.24	ug/L	10.0	NA	88.4	65-115	0.00	25	
EPTC	6.23	0.50	0.22	ug/L	10.0	NA	62.3	50-110	16.7	30	
Ethalfuralin	8.74	0.50	0.47	ug/L	10.0	NA	87.4	65-115	8.72	30	
Fonofos	8.38	0.50	0.30	ug/L	10.0	NA	83.8	55-115	15.7	30	
Metolachlor	9.02	0.50	0.28	ug/L	10.0	NA	90.2	70-120	4.44	25	
Metribuzin	8.94	0.50	0.35	ug/L	10.0	NA	89.4	70-120	4.27	25	
Pendimethalin	8.16	0.50	0.25	ug/L	10.0	NA	81.6	65-115	4.20	25	
Phorate	4.76	1.0	0.58	ug/L	10.0	NA	47.6	30-100	134	30	
Prometon	9.22	0.50	0.29	ug/L	10.0	NA	92.2	70-120	2.99	30	
Propachlor	8.49	0.50	0.14	ug/L	10.0	NA	84.9	65-115	10.1	30	
Propazine	8.49	0.50	0.21	ug/L	10.0	NA	84.9	65-115	1.87	25	
Simazine	7.60	0.50	0.32	ug/L	10.0	NA	76.0	65-115	4.12	25	
Terbufos	4.95	1.0	0.54	ug/L	10.0	NA	49.5	30-100	121	30	
Triallate	8.08	0.50	0.34	ug/L	10.0	NA	80.8	65-115	5.08	25	
Trifluralin	8.11	0.50	0.21	ug/L	10.0	NA	81.1	65-115	9.97	25	
Surrogate: Atrazine-d5	8.17			ug/L	10.0	NA	81.7	50-120			
Surrogate: Diazinon-d10	8.28			ug/L	10.0	NA	82.8	50-120			

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Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902881
Project Mgr: Steven J. Albrecht
Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0350 - EPA 3520C

Matrix Spike (B9F0350-MS1)

Source: 0902881-03RE1

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.8	0.63	0.32	ug/L	12.7	ND	85.7	65-115	NA	NA	
Alachlor	10.4	0.63	0.24	ug/L	12.7	ND	82.2	65-115	NA	NA	
Atrazine	10.0	0.63	0.30	ug/L	12.7	ND	79.1	65-115	NA	NA	
Chlorpyrifos	10.2	0.63	0.43	ug/L	12.7	ND	80.2	60-115	NA	NA	
Cyanazine	11.4	0.63	0.61	ug/L	12.7	ND	89.8	65-120	NA	NA	
Deisopropylatrazine	8.89	0.63	0.33	ug/L	12.7	ND	70.2	65-115	NA	NA	
Desethylatrazine	10.5	0.63	0.37	ug/L	12.7	ND	83.2	65-115	NA	NA	
Dimethenamid	10.2	0.63	0.30	ug/L	12.7	ND	80.7	65-120	NA	NA	
EPTC	7.92	0.63	0.27	ug/L	12.7	ND	62.6	50-110	NA	NA	
Ethalfuralin	11.0	0.63	0.59	ug/L	12.7	ND	86.9	65-115	NA	NA	
Fonofos	9.95	0.63	0.37	ug/L	12.7	ND	78.6	55-115	NA	NA	
Metolachlor	10.5	0.63	0.35	ug/L	12.7	ND	83.1	65-120	NA	NA	
Metribuzin	10.6	0.63	0.44	ug/L	12.7	ND	83.4	65-120	NA	NA	
Pendimethalin	9.39	0.63	0.32	ug/L	12.7	ND	74.2	60-115	NA	NA	
Phorate	4.58	1.3	0.74	ug/L	12.7	ND	36.2	30-100	NA	NA	
Prometon	10.5	0.63	0.37	ug/L	12.7	ND	83.2	70-120	NA	NA	
Propachlor	10.3	0.63	0.18	ug/L	12.7	ND	81.1	65-115	NA	NA	
Propazine	10.0	0.63	0.26	ug/L	12.7	ND	79.1	65-115	NA	NA	
Simazine	8.76	0.63	0.40	ug/L	12.7	ND	69.2	60-115	NA	NA	
Terbufos	4.89	1.3	0.69	ug/L	12.7	ND	38.6	30-100	NA	NA	
Triallate	9.78	0.63	0.43	ug/L	12.7	ND	77.3	60-115	NA	NA	
Trifluralin	9.75	0.63	0.27	ug/L	12.7	ND	77.0	65-115	NA	NA	
Surrogate: Atrazine-d5	9.70			ug/L	12.7	NA	76.6	50-120			
Surrogate: Diazinon-d10	9.77			ug/L	12.7	NA	77.2	50-120			

Matrix Spike Duplicate (B9F0350-MSD1)

Source: 0902881-03RE1

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.9	0.63	0.32	ug/L	12.7	ND	86.1	65-115	0.466	30	
Alachlor	10.8	0.63	0.24	ug/L	12.7	ND	85.2	65-115	3.58	30	
Atrazine	10.3	0.63	0.30	ug/L	12.7	ND	81.3	65-115	2.74	30	
Chlorpyrifos	10.1	0.63	0.43	ug/L	12.7	ND	80.1	60-115	0.125	30	
Cyanazine	11.5	0.63	0.61	ug/L	12.7	ND	90.8	65-120	1.11	30	
Deisopropylatrazine	9.38	0.63	0.33	ug/L	12.7	ND	74.1	65-115	5.41	30	
Desethylatrazine	10.8	0.63	0.37	ug/L	12.7	ND	85.2	65-115	2.38	30	
Dimethenamid	10.4	0.63	0.30	ug/L	12.7	ND	81.9	65-120	1.48	30	
EPTC	8.09	0.63	0.27	ug/L	12.7	ND	63.9	50-110	2.06	30	
Ethalfuralin	10.5	0.63	0.59	ug/L	12.7	ND	83.2	65-115	4.35	30	
Fonofos	10.5	0.63	0.37	ug/L	12.7	ND	82.8	55-115	5.20	30	
Metolachlor	10.6	0.63	0.35	ug/L	12.7	ND	84.1	65-120	1.20	30	
Metribuzin	10.9	0.63	0.44	ug/L	12.7	ND	86.1	65-120	3.19	30	
Pendimethalin	9.20	0.63	0.32	ug/L	12.7	ND	72.7	60-115	2.04	30	
Phorate	9.32	1.3	0.74	ug/L	12.7	ND	73.6	30-100	68.1	30	
Prometon	10.6	0.63	0.37	ug/L	12.7	ND	84.0	70-120	0.957	30	
Propachlor	10.4	0.63	0.18	ug/L	12.7	ND	82.5	65-115	1.71	30	



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Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0350 - EPA 3520C

Matrix Spike Duplicate (B9F0350-MSD1)

Source: 0902881-03RE1

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Propazine	10.2	0.63	0.26	ug/L	12.7	ND	80.8	65-115	2.13	30	
Simazine	8.87	0.63	0.40	ug/L	12.7	ND	70.1	60-115	1.29	30	
Terbufos	9.19	1.3	0.69	ug/L	12.7	ND	72.6	30-100	61.2	30	
Triallate	9.76	0.63	0.43	ug/L	12.7	ND	77.1	60-115	0.259	30	
Trifluralin	9.62	0.63	0.27	ug/L	12.7	ND	76.0	65-115	1.31	30	
Surrogate: Atrazine-d5	9.76			ug/L	12.7	NA	77.1	50-120			
Surrogate: Diazinon-d10	9.71			ug/L	12.7	NA	76.7	50-120			



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Work Order #: 0902881
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0321 - EPA 3510C

Method Blank (B9F0321-BLK1)

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	ND	0.50	0.31	ug/L	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	ND	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D	ND	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D.B.	ND	0.50	0.15	ug/L	NA	NA	NA	NA	NA	NA	
Bentazon	ND	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Dicamba	ND	0.50	0.38	ug/L	NA	NA	NA	NA	NA	NA	
Dinoseb	ND	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
M.C.P.A.	ND	0.30	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	ND	0.50	0.39	ug/L	NA	NA	NA	NA	NA	NA	
Picloram	ND	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Triclopyr	ND	0.50	0.41	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	4.23			ug/L	5.00	NA	84.6	65-130			

Laboratory Control Sample (B9F0321-BS1)

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	3.50	0.50	0.31	ug/L	5.00	NA	70.0	70-130	NA	NA	
2,4,5-T.P.	3.74	0.50	0.28	ug/L	5.00	NA	74.8	70-130	NA	NA	
2,4-D	3.67	0.50	0.26	ug/L	5.00	NA	73.4	70-130	NA	NA	
2,4-D.B.	3.98	0.50	0.15	ug/L	5.00	NA	79.6	75-140	NA	NA	
Bentazon	4.05	0.50	0.22	ug/L	5.00	NA	81.0	75-135	NA	NA	
Dicamba	3.63	0.50	0.38	ug/L	5.00	NA	72.6	65-130	NA	NA	
Dinoseb	2.85	0.50	0.34	ug/L	5.00	NA	57.0	40-125	NA	NA	
M.C.P.A.	3.68	0.30	0.29	ug/L	5.00	NA	73.6	70-130	NA	NA	
Pentachlorophenol	3.59	0.50	0.39	ug/L	5.00	NA	71.8	70-120	NA	NA	
Picloram	3.02	0.50	0.25	ug/L	5.00	NA	60.4	60-125	NA	NA	
Triclopyr	3.68	0.50	0.41	ug/L	5.00	NA	73.6	75-125	NA	NA	
Surrogate: D.C.A.A.	4.11			ug/L	5.00	NA	82.2	65-130			

Laboratory Control Sample Duplicate (B9F0321-BSD1)

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.21	0.50	0.31	ug/L	5.00	NA	84.2	70-130	18.4	20	
2,4,5-T.P.	4.33	0.50	0.28	ug/L	5.00	NA	86.6	70-130	14.6	20	
2,4-D	4.29	0.50	0.26	ug/L	5.00	NA	85.8	70-130	15.6	20	
2,4-D.B.	4.79	0.50	0.15	ug/L	5.00	NA	95.8	75-140	18.5	20	
Bentazon	4.85	0.50	0.22	ug/L	5.00	NA	97.0	75-135	18.0	20	
Dicamba	4.32	0.50	0.38	ug/L	5.00	NA	86.4	65-130	17.4	20	
Dinoseb	3.10	0.50	0.34	ug/L	5.00	NA	62.0	40-125	8.40	20	
M.C.P.A.	4.41	0.30	0.29	ug/L	5.00	NA	88.2	70-130	18.0	20	
Pentachlorophenol	4.17	0.50	0.39	ug/L	5.00	NA	83.4	70-120	14.9	20	
Picloram	3.70	0.50	0.25	ug/L	5.00	NA	74.0	60-125	20.2	20	
Triclopyr	4.23	0.50	0.41	ug/L	5.00	NA	84.6	75-125	13.9	20	
Surrogate: D.C.A.A.	4.60			ug/L	5.00	NA	92.0	65-130			



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 PO Number:

Work Order #: 0902881
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0321 - EPA 3510C

Laboratory Control Sample Duplicate (B9F0321-BSD1)

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Matrix Spike (B9F0321-MS1)

Source: 0902881-03

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	5.21	0.61	0.38	ug/L	6.10	ND	85.4	70-140	NA	NA	
2,4,5-T.P.	5.43	0.61	0.35	ug/L	6.10	ND	89.0	70-135	NA	NA	
2,4-D	5.02	0.61	0.32	ug/L	6.10	ND	82.4	70-140	NA	NA	
2,4-D.B.	5.60	0.61	0.18	ug/L	6.10	ND	91.8	75-140	NA	NA	
Bentazon	5.56	0.61	0.27	ug/L	6.10	ND	91.2	70-140	NA	NA	
Dicamba	5.21	0.61	0.46	ug/L	6.10	ND	85.4	65-140	NA	NA	
Dinoseb	4.17	0.61	0.42	ug/L	6.10	ND	68.4	40-130	NA	NA	
M.C.P.A.	4.76	0.37	0.36	ug/L	6.10	ND	78.0	60-140	NA	NA	
Pentachlorophenol	3.85	0.61	0.48	ug/L	6.10	ND	63.2	60-120	NA	NA	
Picloram	4.62	0.61	0.31	ug/L	6.10	ND	75.8	45-140	NA	NA	
Triclopyr	5.46	0.61	0.50	ug/L	6.10	ND	89.6	75-125	NA	NA	

Surrogate: D.C.A.A.

5.66 ug/L 6.10 NA 92.8 65-130

Matrix Spike Duplicate (B9F0321-MSD1)

Source: 0902881-03

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.60	0.56	0.35	ug/L	5.56	ND	82.8	70-140	12.4	25	
2,4,5-T.P.	4.52	0.56	0.32	ug/L	5.56	ND	81.4	70-135	18.2	25	
2,4-D	4.52	0.56	0.29	ug/L	5.56	ND	81.4	70-140	10.5	25	
2,4-D.B.	4.99	0.56	0.17	ug/L	5.56	ND	89.8	75-140	11.5	25	
Bentazon	4.78	0.56	0.25	ug/L	5.56	ND	86.0	70-140	15.2	25	
Dicamba	4.49	0.56	0.42	ug/L	5.56	ND	80.8	65-140	14.8	25	
Dinoseb	3.81	0.56	0.38	ug/L	5.56	ND	68.6	40-130	9.01	25	
M.C.P.A.	4.01	0.33	0.32	ug/L	5.56	ND	72.2	60-140	17.0	25	
Pentachlorophenol	3.63	0.56	0.44	ug/L	5.56	ND	65.4	60-120	5.89	25	
Picloram	3.98	0.56	0.28	ug/L	5.56	ND	71.6	45-140	15.0	25	
Triclopyr	4.70	0.56	0.45	ug/L	5.56	ND	84.6	75-125	15.0	25	

Surrogate: D.C.A.A.

4.80 ug/L 5.56 NA 86.4 65-130

BRAUN INTERTEC

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Client Ref: [none]
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902881
Project Mgr: Steven J. Albrecht
Account ID: B01058

0902881

Chain of Custody
4700 West 77th Street
BARR Minneapolis, MN 55435-4803
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Project Number: 23 / 19 - 0 B05G WAS 330
Project Name: № 28314

Sample Identification	Collection		Matrix		Type	Number of Containers/Preservative													Total No. Of Containers	COC ____ of ____	Remarks:					
	Date	Time	Water	Soil	Grab Comp. OC	Water	Soil																			
						Volatiles Organics (Pres.) *1	Semivolatiles Organics *2	Dissolved Metals (HNO ₃)	Total Metals (HNO ₃)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H ₂ SO ₄) *4	Oil and Grease (H ₂ SO ₄)	Sulfide (Zn Acetate)	Methane	Bacteria (Na ₂ S ₂ O ₃)	DRO (HCl)	VOCs (2-oz Iared MeOH) *7	GRX, BTEX (2-oz Iared MeOH) *7	DRO (2-oz Iared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)			
1. MW-B1-001	6/11/09	1055	✓		✓		3																	3	List 1 & 2 Pesticide	
2. MW-E2-209	↓	1310	✓		✓		3																	3		
3. MW-E2-009	↓	1435	✓		✓		3																	3		
4. WSW-207605	↓	1635	✓		✓		3																	3		
5.																										
6.																										
7.																										
8.																										
9.																										
10.																										
11.																										
12.																										

Common Parameter/Container - Preservation Key
 *1 - Volatile Organics = BTEX, GRX TPH, Full List
 *2 - Semivolatiles Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
 *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
 *4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Requisitioned By: [Signature] Date: 6/11/09 Time:
 Requisitioned by: On Ice? Date: Time:
 Air Freight Federal Express Sample
 Other
 Received by: [Signature] Date: 6/12/09 Time: 11:00
 Received by: Date: Time:
 Samples Shipped VIA: Air Bill Number:
 Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

BRAUN **INTERTEC**

Braun Intertec Corporation
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Ms. Kelly Nepl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

August 12, 2009

Work Order #: 0902951
(Revised)

RE: 23/19-0B05 SOC 300

Dear Kelly Nepl:

Braun Intertec Corporation received samples for the project identified above on June 12, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,



Steven J. Albrecht
Associate Principal



Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117

Wisconsin DNR: 999462640

Providing engineering and environmental solutions since 1957

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803Client Ref: 23/19-0B05 SOC 300
Client Contact: Ms. Kelly Nepl
PO Number:Work Order #: 0902951
Project Mgr: Steven J. Albrecht
Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a “story” about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini “case narrative” that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each “cooler” is identified and the conditions associated with that cooler are documented. A “cooler” is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be “Total Petroleum Hydrocarbons.” Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an “M” (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word “dry” will appear next to the units. If the word “dry” does not appear then the result is “as received.”

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up as bolded. They are considered “hits.” The MDL is a statistically derived number that indicates, with high confidence, that an analyte can be detected above noise level. If a result is less than this value it is marked as “ND” for “Non-Detect.” If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a “J” flag denoting that it has been detected but that the result is an estimate. This is consistent with the *CLP Statement of Work* and the *National Functional Guidelines*.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: 23/19-0B05 SOC 300
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902951
Project Mgr: Steven J. Albrecht
Account ID: B01058

Qualifiers and Abbreviations

qo	The relative percent difference (RPD) was outside of laboratory control limits for the matrix spike (MS) and matrix spike duplicate (MSD) samples.
J	Detected but below the Method Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
gp	The relative percent difference (RPD) for the laboratory control sample and laboratory control sample duplicate is outside of laboratory control limits.
go	The laboratory control sample recovery is outside of laboratory control limits.
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound



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PO Number:

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Project Mgr: Steven J. Albrecht
Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FB-1	0902951-01	Water	06/11/09 15:25	06/12/09 12:00



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Conditions Upon Receipt

Cooler: Cooler #1

Temperature: 0.8 °C
COC Included: Yes
Custody Seals Used: No
Custody Seals Intact: NA

Received on Ice: Yes
Hand Delivered by Sampler: No
Sufficient Sample Provided: Yes
Headspace Present (VOC): No

Preservation Confirmed: No
Temperature Blank: No
COC Complete: Yes
COC & Labels Agree: Yes

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Project Mgr: Steven J. Albrecht
Account ID: B01058

FB-1
0902951-01 (Water)
6/11/09 15:25

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.52	0.26	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Alachlor	ND	0.52	0.19	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Atrazine	ND	0.52	0.24	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Chlorpyrifos	ND	0.52	0.35	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Cyanazine	ND	0.52	0.50	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Deisopropylatrazine	ND	0.52	0.26	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Desethylatrazine	ND	0.52	0.30	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Dimethenamid	ND	0.52	0.24	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
EPTC	ND	0.52	0.22	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Ethalfuralin	ND	0.52	0.48	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Fonofos	ND	0.52	0.30	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Metolachlor	ND	0.52	0.28	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Metribuzin	ND	0.52	0.36	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Pendimethalin	ND	0.52	0.26	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Phorate	ND	1.0	0.60	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	go, gp, qo
Prometon	ND	0.52	0.30	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Propachlor	ND	0.52	0.14	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Propazine	ND	0.52	0.21	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Simazine	ND	0.52	0.33	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Terbufos	ND	1.0	0.56	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	go, gp, qo
Triallate	ND	0.52	0.35	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Trifluralin	ND	0.52	0.22	ug/L	B9F0350	6/17/09	6/23/09	EPA 8270C	
Surrogate: Atrazine-d5	84.6 %	Limits: 50-120%			B9F0350	6/17/09	6/23/09	EPA 8270C	
Surrogate: Diazinon-d10	91.3 %	Limits: 50-120%			B9F0350	6/17/09	6/23/09	EPA 8270C	

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PO Number:

Work Order #: 0902951
Project Mgr: Steven J. Albrecht
Account ID: B01058

FB-1
0902951-01 (Water)
6/11/09 15:25

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.50	0.31	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4,5-T.P.	ND	0.50	0.28	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4-D	ND	0.50	0.26	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
2,4-D.B.	ND	0.50	0.15	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Bentazon	ND	0.50	0.22	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Dicamba	ND	0.50	0.38	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Dinoseb	ND	0.50	0.34	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
M.C.P.A.	ND	0.30	0.29	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Pentachlorophenol	ND	0.50	0.39	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	
Picloram	ND	0.50	0.25	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	gp
Triclopyr	ND	0.50	0.41	ug/L	B9F0321	6/16/09	6/23/09	EPA 8270C	go
Surrogate: D.C.A.A.	91.4 %	Limits: 65-130%			B9F0321	6/16/09	6/23/09	EPA 8270C	

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Project Mgr: Steven J. Albrecht
Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0350 - EPA 3520C

Method Blank (B9F0350-BLK1)

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	ND	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Alachlor	ND	0.50	0.19	ug/L	NA	NA	NA	NA	NA	NA	
Atrazine	ND	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	ND	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Cyanazine	ND	0.50	0.48	ug/L	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	ND	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
Desethylatrazine	ND	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Dimethenamid	ND	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
EPTC	ND	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Ethalfuralin	ND	0.50	0.47	ug/L	NA	NA	NA	NA	NA	NA	
Fonofos	ND	0.50	0.30	ug/L	NA	NA	NA	NA	NA	NA	
Metolachlor	ND	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
Metribuzin	ND	0.50	0.35	ug/L	NA	NA	NA	NA	NA	NA	
Pendimethalin	ND	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Phorate	ND	1.0	0.58	ug/L	NA	NA	NA	NA	NA	NA	
Prometon	ND	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Propachlor	ND	0.50	0.14	ug/L	NA	NA	NA	NA	NA	NA	
Propazine	ND	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Simazine	ND	0.50	0.32	ug/L	NA	NA	NA	NA	NA	NA	
Terbufos	ND	1.0	0.54	ug/L	NA	NA	NA	NA	NA	NA	
Triallate	ND	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Trifluralin	ND	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	9.41			ug/L	10.0	NA	94.1	50-120			
Surrogate: Diazinon-d10	8.87			ug/L	10.0	NA	88.7	50-120			

Laboratory Control Sample (B9F0350-BS1)

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	9.15	0.50	0.25	ug/L	10.0	NA	91.5	65-115	NA	NA	
Alachlor	9.01	0.50	0.19	ug/L	10.0	NA	90.1	65-115	NA	NA	
Atrazine	8.93	0.50	0.24	ug/L	10.0	NA	89.3	65-115	NA	NA	
Chlorpyrifos	8.76	0.50	0.34	ug/L	10.0	NA	87.6	65-115	NA	NA	
Cyanazine	10.5	0.50	0.48	ug/L	10.0	NA	105	65-115	NA	NA	
Deisopropylatrazine	8.02	0.50	0.26	ug/L	10.0	NA	80.2	65-115	NA	NA	
Desethylatrazine	9.52	0.50	0.29	ug/L	10.0	NA	95.2	65-115	NA	NA	
Dimethenamid	8.84	0.50	0.24	ug/L	10.0	NA	88.4	65-115	NA	NA	
EPTC	5.27	0.50	0.22	ug/L	10.0	NA	52.7	50-110	NA	NA	
Ethalfuralin	8.01	0.50	0.47	ug/L	10.0	NA	80.1	65-115	NA	NA	
Fonofos	7.16	0.50	0.30	ug/L	10.0	NA	71.6	55-115	NA	NA	
Metolachlor	9.43	0.50	0.28	ug/L	10.0	NA	94.3	70-120	NA	NA	
Metribuzin	9.33	0.50	0.35	ug/L	10.0	NA	93.3	70-120	NA	NA	
Pendimethalin	8.51	0.50	0.25	ug/L	10.0	NA	85.1	65-115	NA	NA	
Phorate	0.940 J	1.0	0.58	ug/L	10.0	NA	9.40	30-100	NA	NA	
Prometon	9.50	0.50	0.29	ug/L	10.0	NA	95.0	70-120	NA	NA	
Propachlor	7.67	0.50	0.14	ug/L	10.0	NA	76.7	65-115	NA	NA	



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Client Ref: 23/19-0B05 SOC 300
 Client Contact: Ms. Kelly Neppel
 PO Number:

Work Order #: 0902951
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0350 - EPA 3520C

Laboratory Control Sample (B9F0350-BS1)

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Propazine	8.65	0.50	0.21	ug/L	10.0	NA	86.5	65-115	NA	NA	
Simazine	7.92	0.50	0.32	ug/L	10.0	NA	79.2	65-115	NA	NA	
Terbufos	1.21	1.0	0.54	ug/L	10.0	NA	12.1	30-100	NA	NA	
Triallate	7.68	0.50	0.34	ug/L	10.0	NA	76.8	65-115	NA	NA	
Trifluralin	7.34	0.50	0.21	ug/L	10.0	NA	73.4	65-115	NA	NA	
Surrogate: Atrazine-d5	8.36			ug/L	10.0	NA	83.6	50-120			
Surrogate: Diazinon-d10	8.02			ug/L	10.0	NA	80.2	50-120			

Laboratory Control Sample Duplicate (B9F0350-BSD1)

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	9.05	0.50	0.25	ug/L	10.0	NA	90.5	65-115	1.10	25	
Alachlor	8.94	0.50	0.19	ug/L	10.0	NA	89.4	65-115	0.780	25	
Atrazine	8.63	0.50	0.24	ug/L	10.0	NA	86.3	65-115	3.42	25	
Chlorpyrifos	8.86	0.50	0.34	ug/L	10.0	NA	88.6	65-115	1.14	25	
Cyanazine	9.85	0.50	0.48	ug/L	10.0	NA	98.5	65-115	6.29	25	
Deisopropylatrazine	7.65	0.50	0.26	ug/L	10.0	NA	76.5	65-115	4.72	25	
Desethylatrazine	9.26	0.50	0.29	ug/L	10.0	NA	92.6	65-115	2.77	25	
Dimethenamid	8.84	0.50	0.24	ug/L	10.0	NA	88.4	65-115	0.00	25	
EPTC	6.23	0.50	0.22	ug/L	10.0	NA	62.3	50-110	16.7	30	
Ethalfuralin	8.74	0.50	0.47	ug/L	10.0	NA	87.4	65-115	8.72	30	
Fonofos	8.38	0.50	0.30	ug/L	10.0	NA	83.8	55-115	15.7	30	
Metolachlor	9.02	0.50	0.28	ug/L	10.0	NA	90.2	70-120	4.44	25	
Metribuzin	8.94	0.50	0.35	ug/L	10.0	NA	89.4	70-120	4.27	25	
Pendimethalin	8.16	0.50	0.25	ug/L	10.0	NA	81.6	65-115	4.20	25	
Phorate	4.76	1.0	0.58	ug/L	10.0	NA	47.6	30-100	134	30	
Prometon	9.22	0.50	0.29	ug/L	10.0	NA	92.2	70-120	2.99	30	
Propachlor	8.49	0.50	0.14	ug/L	10.0	NA	84.9	65-115	10.1	30	
Propazine	8.49	0.50	0.21	ug/L	10.0	NA	84.9	65-115	1.87	25	
Simazine	7.60	0.50	0.32	ug/L	10.0	NA	76.0	65-115	4.12	25	
Terbufos	4.95	1.0	0.54	ug/L	10.0	NA	49.5	30-100	121	30	
Triallate	8.08	0.50	0.34	ug/L	10.0	NA	80.8	65-115	5.08	25	
Trifluralin	8.11	0.50	0.21	ug/L	10.0	NA	81.1	65-115	9.97	25	
Surrogate: Atrazine-d5	8.17			ug/L	10.0	NA	81.7	50-120			
Surrogate: Diazinon-d10	8.28			ug/L	10.0	NA	82.8	50-120			



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 Minneapolis, MN 55435-4803

Client Ref: 23/19-0B05 SOC 300
 Client Contact: Ms. Kelly Neppel
 PO Number:

Work Order #: 0902951
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0350 - EPA 3520C

Matrix Spike (B9F0350-MS1)

Source: 0902881-03RE1

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.8	0.63	0.32	ug/L	12.7	ND	85.7	65-115	NA	NA	
Alachlor	10.4	0.63	0.24	ug/L	12.7	ND	82.2	65-115	NA	NA	
Atrazine	10.0	0.63	0.30	ug/L	12.7	ND	79.1	65-115	NA	NA	
Chlorpyrifos	10.2	0.63	0.43	ug/L	12.7	ND	80.2	60-115	NA	NA	
Cyanazine	11.4	0.63	0.61	ug/L	12.7	ND	89.8	65-120	NA	NA	
Deisopropylatrazine	8.89	0.63	0.33	ug/L	12.7	ND	70.2	65-115	NA	NA	
Desethylatrazine	10.5	0.63	0.37	ug/L	12.7	ND	83.2	65-115	NA	NA	
Dimethenamid	10.2	0.63	0.30	ug/L	12.7	ND	80.7	65-120	NA	NA	
EPTC	7.92	0.63	0.27	ug/L	12.7	ND	62.6	50-110	NA	NA	
Ethalfuralin	11.0	0.63	0.59	ug/L	12.7	ND	86.9	65-115	NA	NA	
Fonofos	9.95	0.63	0.37	ug/L	12.7	ND	78.6	55-115	NA	NA	
Metolachlor	10.5	0.63	0.35	ug/L	12.7	ND	83.1	65-120	NA	NA	
Metribuzin	10.6	0.63	0.44	ug/L	12.7	ND	83.4	65-120	NA	NA	
Pendimethalin	9.39	0.63	0.32	ug/L	12.7	ND	74.2	60-115	NA	NA	
Phorate	4.58	1.3	0.74	ug/L	12.7	ND	36.2	30-100	NA	NA	
Prometon	10.5	0.63	0.37	ug/L	12.7	ND	83.2	70-120	NA	NA	
Propachlor	10.3	0.63	0.18	ug/L	12.7	ND	81.1	65-115	NA	NA	
Propazine	10.0	0.63	0.26	ug/L	12.7	ND	79.1	65-115	NA	NA	
Simazine	8.76	0.63	0.40	ug/L	12.7	ND	69.2	60-115	NA	NA	
Terbufos	4.89	1.3	0.69	ug/L	12.7	ND	38.6	30-100	NA	NA	
Triallate	9.78	0.63	0.43	ug/L	12.7	ND	77.3	60-115	NA	NA	
Trifluralin	9.75	0.63	0.27	ug/L	12.7	ND	77.0	65-115	NA	NA	
Surrogate: Atrazine-d5	9.70			ug/L	12.7	NA	76.6	50-120			
Surrogate: Diazinon-d10	9.77			ug/L	12.7	NA	77.2	50-120			

Matrix Spike Duplicate (B9F0350-MSD1)

Source: 0902881-03RE1

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.9	0.63	0.32	ug/L	12.7	ND	86.1	65-115	0.466	30	
Alachlor	10.8	0.63	0.24	ug/L	12.7	ND	85.2	65-115	3.58	30	
Atrazine	10.3	0.63	0.30	ug/L	12.7	ND	81.3	65-115	2.74	30	
Chlorpyrifos	10.1	0.63	0.43	ug/L	12.7	ND	80.1	60-115	0.125	30	
Cyanazine	11.5	0.63	0.61	ug/L	12.7	ND	90.8	65-120	1.11	30	
Deisopropylatrazine	9.38	0.63	0.33	ug/L	12.7	ND	74.1	65-115	5.41	30	
Desethylatrazine	10.8	0.63	0.37	ug/L	12.7	ND	85.2	65-115	2.38	30	
Dimethenamid	10.4	0.63	0.30	ug/L	12.7	ND	81.9	65-120	1.48	30	
EPTC	8.09	0.63	0.27	ug/L	12.7	ND	63.9	50-110	2.06	30	
Ethalfuralin	10.5	0.63	0.59	ug/L	12.7	ND	83.2	65-115	4.35	30	
Fonofos	10.5	0.63	0.37	ug/L	12.7	ND	82.8	55-115	5.20	30	
Metolachlor	10.6	0.63	0.35	ug/L	12.7	ND	84.1	65-120	1.20	30	
Metribuzin	10.9	0.63	0.44	ug/L	12.7	ND	86.1	65-120	3.19	30	
Pendimethalin	9.20	0.63	0.32	ug/L	12.7	ND	72.7	60-115	2.04	30	
Phorate	9.32	1.3	0.74	ug/L	12.7	ND	73.6	30-100	68.1	30	
Prometon	10.6	0.63	0.37	ug/L	12.7	ND	84.0	70-120	0.957	30	
Propachlor	10.4	0.63	0.18	ug/L	12.7	ND	82.5	65-115	1.71	30	



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Barr Engineering Company
4700 West 77th Street
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Client Ref: 23/19-0B05 SOC 300
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0902951
Project Mgr: Steven J. Albrecht
Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0350 - EPA 3520C

Matrix Spike Duplicate (B9F0350-MSD1)

Source: 0902881-03RE1

Prepared: 06/17/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Propazine	10.2	0.63	0.26	ug/L	12.7	ND	80.8	65-115	2.13	30	
Simazine	8.87	0.63	0.40	ug/L	12.7	ND	70.1	60-115	1.29	30	
Terbufos	9.19	1.3	0.69	ug/L	12.7	ND	72.6	30-100	61.2	30	
Triallate	9.76	0.63	0.43	ug/L	12.7	ND	77.1	60-115	0.259	30	
Trifluralin	9.62	0.63	0.27	ug/L	12.7	ND	76.0	65-115	1.31	30	
Surrogate: Atrazine-d5	9.76			ug/L	12.7	NA	77.1	50-120			
Surrogate: Diazinon-d10	9.71			ug/L	12.7	NA	76.7	50-120			

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Client Ref: 23/19-0B05 SOC 300
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902951
Project Mgr: Steven J. Albrecht
Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0321 - EPA 3510C

Method Blank (B9F0321-BLK1)

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	ND	0.50	0.31	ug/L	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	ND	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D	ND	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D.B.	ND	0.50	0.15	ug/L	NA	NA	NA	NA	NA	NA	
Bentazon	ND	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Dicamba	ND	0.50	0.38	ug/L	NA	NA	NA	NA	NA	NA	
Dinoseb	ND	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
M.C.P.A.	ND	0.30	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	ND	0.50	0.39	ug/L	NA	NA	NA	NA	NA	NA	
Picloram	ND	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Triclopyr	ND	0.50	0.41	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	4.23			ug/L	5.00	NA	84.6	65-130			

Laboratory Control Sample (B9F0321-BS1)

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	3.50	0.50	0.31	ug/L	5.00	NA	70.0	70-130	NA	NA	
2,4,5-T.P.	3.74	0.50	0.28	ug/L	5.00	NA	74.8	70-130	NA	NA	
2,4-D	3.67	0.50	0.26	ug/L	5.00	NA	73.4	70-130	NA	NA	
2,4-D.B.	3.98	0.50	0.15	ug/L	5.00	NA	79.6	75-140	NA	NA	
Bentazon	4.05	0.50	0.22	ug/L	5.00	NA	81.0	75-135	NA	NA	
Dicamba	3.63	0.50	0.38	ug/L	5.00	NA	72.6	65-130	NA	NA	
Dinoseb	2.85	0.50	0.34	ug/L	5.00	NA	57.0	40-125	NA	NA	
M.C.P.A.	3.68	0.30	0.29	ug/L	5.00	NA	73.6	70-130	NA	NA	
Pentachlorophenol	3.59	0.50	0.39	ug/L	5.00	NA	71.8	70-120	NA	NA	
Picloram	3.02	0.50	0.25	ug/L	5.00	NA	60.4	60-125	NA	NA	
Triclopyr	3.68	0.50	0.41	ug/L	5.00	NA	73.6	75-125	NA	NA	
Surrogate: D.C.A.A.	4.11			ug/L	5.00	NA	82.2	65-130			

Laboratory Control Sample Duplicate (B9F0321-BSD1)

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.21	0.50	0.31	ug/L	5.00	NA	84.2	70-130	18.4	20	
2,4,5-T.P.	4.33	0.50	0.28	ug/L	5.00	NA	86.6	70-130	14.6	20	
2,4-D	4.29	0.50	0.26	ug/L	5.00	NA	85.8	70-130	15.6	20	
2,4-D.B.	4.79	0.50	0.15	ug/L	5.00	NA	95.8	75-140	18.5	20	
Bentazon	4.85	0.50	0.22	ug/L	5.00	NA	97.0	75-135	18.0	20	
Dicamba	4.32	0.50	0.38	ug/L	5.00	NA	86.4	65-130	17.4	20	
Dinoseb	3.10	0.50	0.34	ug/L	5.00	NA	62.0	40-125	8.40	20	
M.C.P.A.	4.41	0.30	0.29	ug/L	5.00	NA	88.2	70-130	18.0	20	
Pentachlorophenol	4.17	0.50	0.39	ug/L	5.00	NA	83.4	70-120	14.9	20	
Picloram	3.70	0.50	0.25	ug/L	5.00	NA	74.0	60-125	20.2	20	
Triclopyr	4.23	0.50	0.41	ug/L	5.00	NA	84.6	75-125	13.9	20	
Surrogate: D.C.A.A.	4.60			ug/L	5.00	NA	92.0	65-130			



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Barr Engineering Company
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Client Ref: 23/19-0B05 SOC 300
 Client Contact: Ms. Kelly Neppl
 PO Number:

Work Order #: 0902951
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0321 - EPA 3510C

Laboratory Control Sample Duplicate (B9F0321-BSD1)

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Matrix Spike (B9F0321-MS1)

Source: 0902881-03

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	5.21	0.61	0.38	ug/L	6.10	ND	85.4	70-140	NA	NA	
2,4,5-T.P.	5.43	0.61	0.35	ug/L	6.10	ND	89.0	70-135	NA	NA	
2,4-D	5.02	0.61	0.32	ug/L	6.10	ND	82.4	70-140	NA	NA	
2,4-D.B.	5.60	0.61	0.18	ug/L	6.10	ND	91.8	75-140	NA	NA	
Bentazon	5.56	0.61	0.27	ug/L	6.10	ND	91.2	70-140	NA	NA	
Dicamba	5.21	0.61	0.46	ug/L	6.10	ND	85.4	65-140	NA	NA	
Dinoseb	4.17	0.61	0.42	ug/L	6.10	ND	68.4	40-130	NA	NA	
M.C.P.A.	4.76	0.37	0.36	ug/L	6.10	ND	78.0	60-140	NA	NA	
Pentachlorophenol	3.85	0.61	0.48	ug/L	6.10	ND	63.2	60-120	NA	NA	
Picloram	4.62	0.61	0.31	ug/L	6.10	ND	75.8	45-140	NA	NA	
Triclopyr	5.46	0.61	0.50	ug/L	6.10	ND	89.6	75-125	NA	NA	

Surrogate: D.C.A.A.

5.66 ug/L 6.10 NA 92.8 65-130

Matrix Spike Duplicate (B9F0321-MSD1)

Source: 0902881-03

Prepared: 06/16/09 Analyzed: 06/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.60	0.56	0.35	ug/L	5.56	ND	82.8	70-140	12.4	25	
2,4,5-T.P.	4.52	0.56	0.32	ug/L	5.56	ND	81.4	70-135	18.2	25	
2,4-D	4.52	0.56	0.29	ug/L	5.56	ND	81.4	70-140	10.5	25	
2,4-D.B.	4.99	0.56	0.17	ug/L	5.56	ND	89.8	75-140	11.5	25	
Bentazon	4.78	0.56	0.25	ug/L	5.56	ND	86.0	70-140	15.2	25	
Dicamba	4.49	0.56	0.42	ug/L	5.56	ND	80.8	65-140	14.8	25	
Dinoseb	3.81	0.56	0.38	ug/L	5.56	ND	68.6	40-130	9.01	25	
M.C.P.A.	4.01	0.33	0.32	ug/L	5.56	ND	72.2	60-140	17.0	25	
Pentachlorophenol	3.63	0.56	0.44	ug/L	5.56	ND	65.4	60-120	5.89	25	
Picloram	3.98	0.56	0.28	ug/L	5.56	ND	71.6	45-140	15.0	25	
Triclopyr	4.70	0.56	0.45	ug/L	5.56	ND	84.6	75-125	15.0	25	

Surrogate: D.C.A.A.

4.80 ug/L 5.56 NA 86.4 65-130

BRAUN INTERTEC

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Barr Engineering Company
4700 West 77th Street
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Client Ref: 23/19-0B05 SOC 300
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0902951
Project Mgr: Steven J. Albrecht
Account ID: B01058

0902951

Chain of Custody				Number of Containers/Preservative												COC _____ of _____																				
BARR 4700 West 77th Street Minneapolis, MN 55435-4803 (952) 832-2600				SOC 300												Project Manager: <u>JME</u>																				
Project Number <u>23/19-0B05</u>				Project Name <u>No 28312</u>												Project Contact: <u>KSN</u>																				
Sample Identification				Collection		Matrix		Type	Total No. of Containers												Sampled by: <u>KST</u>															
				Date	Time	Water	Soil	Grab	Comp.	QC	Volatile Organics (Pres.) *1	Semivolatile Organics *2	Dissolved Metals (HNO ₃)	Total Metals (HNO ₃)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H ₂ SO ₄) *4	Oil and Grease (H ₂ SO ₄)	Sulfide (Zn Acetate)	Methane	Bacteria (Na ₂ S ₂ O ₃)	DRO (HCl)	VOCs (2-oz tared MeOH) *1	GRX, BTEX (2-oz tared MeOH) *1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCS (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)	Laboratory: <u>Braun</u>							
																					Remarks:															
1.	<u>FB-1</u>	<u>6/11/09</u>	<u>1525</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>																												<u>3</u>	<u>List 1-2 Pesticides</u>	
2.																																				
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12.																																				

Hold FB-1 for contact JME before analyzing

OK to run 6/11/09 -CL

0.30C +ICE

Requisitioned By: [Signature] On Ice? Y N Date: 6/11/09 Time: _____
 Requisitioned By: _____ On Ice? Y N Date: _____ Time: _____
 Samples Shipped VIA: Air Freight Federal Express Sample Other _____ Air Bill Number: _____
 Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

BRAUN INTERTEC

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Ms. Kelly Nepl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

August 12, 2009

Work Order #: 0903011
(Revised)

RE: UMore Phase 2

Dear Kelly Nepl:

Braun Intertec Corporation received samples for the project identified above on June 17, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,



Steven J. Albrecht
Associate Principal



Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117

Wisconsin DNR: 999462640

Providing engineering and environmental solutions since 1957

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Phase 2
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0903011
Project Mgr: Steven J. Albrecht
Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up as bolded. They are considered "hits." The MDL is a statistically derived number that indicates, with high confidence, that an analyte can be detected above noise level. If a result is less than this value it is marked as "ND" for "Non-Detect." If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate. This is consistent with the *CLP Statement of Work* and the *National Functional Guidelines*.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.



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Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Phase 2
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0903011
Project Mgr: Steven J. Albrecht
Account ID: B01058

Qualifiers and Abbreviations

qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Phase 2
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0903011
Project Mgr: Steven J. Albrecht
Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC3-TT6 - 0-1'	0903011-01	Soil	06/15/09 14:00	06/17/09 13:55
SOC3-TT9 - 7-8'	0903011-02	Soil	06/15/09 14:30	06/17/09 13:55
SOC3-TT3 - 0.5'	0903011-03	Soil	06/15/09 15:30	06/17/09 13:55
SOC3-TT13 - 1'	0903011-04	Soil	06/15/09 16:00	06/17/09 13:55



11001 Hampshire Ave. S.
Minneapolis, MN 55438
952.995.2000 Phone
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Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Phase 2
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0903011
Project Mgr: Steven J. Albrecht
Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler #1

Temperature: 2.4 °C
COC Included: Yes
Custody Seals Used: No
Custody Seals Intact: NA

Received on Ice: Yes
Hand Delivered by Sampler: No
Sufficient Sample Provided: Yes
Headspace Present (VOC): No

Preservation Confirmed: No
Temperature Blank: Yes
COC Complete: Yes
COC & Labels Agree: Yes

Barr Engineering Company
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Minneapolis, MN 55435-4803

Client Ref: UMore Phase 2
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PO Number:

Work Order #: 0903011
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC3-TT6 - 0-1'

0903011-01 (Soil)

6/15/09 14:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	80	0.050	0.010	% Wt	B9F0380	6/18/09	6/18/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.15	0.037	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Alachlor	ND	0.15	0.026	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Atrazine	ND	0.15	0.037	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Chlorpyrifos	ND	0.15	0.026	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Cyanazine	ND	0.15	0.030	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Deisopropylatrazine	ND	0.15	0.030	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Desethylatrazine	ND	0.15	0.041	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Dimethenamid	ND	0.15	0.022	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
EPTC	ND	0.15	0.022	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Ethalfuralin	ND	0.15	0.052	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Fonofos	ND	0.15	0.015	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Metolachlor	ND	0.15	0.011	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Metribuzin	ND	0.15	0.033	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Pendimethalin	ND	0.15	0.059	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Phorate	ND	0.15	0.022	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Prometon	ND	0.15	0.022	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Propachlor	ND	0.15	0.033	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Propazine	ND	0.15	0.026	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Simazine	ND	0.15	0.033	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Terbufos	ND	0.15	0.033	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Triallate	ND	0.15	0.018	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Trifluralin	ND	0.15	0.052	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Surrogate: Atrazine-d5	57.0 %	Limits: 50-125%			B9F0564	6/29/09	7/7/09	EPA 8270C	
Surrogate: Diazinon-d10	62.7 %	Limits: 35-120%			B9F0564	6/29/09	7/7/09	EPA 8270C	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore Phase 2 Client Contact: Ms. Kelly Neppel PO Number:	Work Order #: 0903011 Project Mgr: Steven J. Albrecht Account ID: B01058
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SOC3-TT6 - 0-1'

0903011-01 (Soil)

6/15/09 14:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.18	0.032	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
2,4,5-T.P.	ND	0.18	0.025	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
2,4-D	ND	0.18	0.043	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
2,4-D.B.	ND	0.18	0.039	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Bentazon	ND	0.18	0.032	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	qn
Dicamba	ND	0.18	0.028	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Dinoseb	ND	0.18	0.018	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
M.C.P.A.	ND	0.18	0.050	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Pentachlorophenol	ND	0.18	0.025	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Picloram	ND	0.18	0.039	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Triclopyr	ND	0.18	0.021	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Surrogate: D.C.A.A.	81.8 %	Limits: 50-125%			B9F0563	6/29/09	7/6/09	EPA 8270C	

Barr Engineering Company
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Account ID: B01058

SOC3-TT9 - 7-8'

0903011-02 (Soil)

6/15/09 14:30

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	97	0.050	0.010	% Wt	B9F0380	6/18/09	6/18/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.12	0.030	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Alachlor	ND	0.12	0.021	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Atrazine	ND	0.12	0.030	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Chlorpyrifos	ND	0.12	0.021	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Cyanazine	ND	0.12	0.024	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Deisopropylatrazine	ND	0.12	0.024	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Desethylatrazine	ND	0.12	0.033	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Dimethenamid	ND	0.12	0.018	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
EPTC	ND	0.12	0.018	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Ethalfuralin	ND	0.12	0.042	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Fonofos	ND	0.12	0.012	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Metolachlor	ND	0.12	0.0089	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Metribuzin	ND	0.12	0.027	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Pendimethalin	ND	0.12	0.048	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Phorate	ND	0.12	0.018	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Prometon	ND	0.12	0.018	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Propachlor	ND	0.12	0.027	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Propazine	ND	0.12	0.021	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Simazine	ND	0.12	0.027	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Terbufos	ND	0.12	0.027	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Triallate	ND	0.12	0.015	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Trifluralin	ND	0.12	0.042	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Surrogate: Atrazine-d5	81.6 %	Limits: 50-125%			B9F0564	6/29/09	7/7/09	EPA 8270C	
Surrogate: Diazinon-d10	79.6 %	Limits: 35-120%			B9F0564	6/29/09	7/7/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Phase 2
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0903011
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC3-TT9 - 7-8'

0903011-02 (Soil)

6/15/09 14:30

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.15	0.028	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
2,4,5-T.P.	ND	0.15	0.021	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
2,4-D	ND	0.15	0.037	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
2,4-D.B.	ND	0.15	0.034	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Bentazon	ND	0.15	0.028	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	qn
Dicamba	ND	0.15	0.025	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Dinoseb	ND	0.15	0.015	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
M.C.P.A.	ND	0.15	0.043	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Pentachlorophenol	ND	0.15	0.021	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Picloram	ND	0.15	0.034	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Triclopyr	ND	0.15	0.018	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Surrogate: D.C.A.A.	78.2 %	Limits: 50-125%			B9F0563	6/29/09	7/6/09	EPA 8270C	

Barr Engineering Company
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Client Ref: UMore Phase 2
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0903011
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC3-TT3 - 0.5'

0903011-03 (Soil)

6/15/09 15:30

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	97	0.050	0.010	% Wt	B9F0380	6/18/09	6/18/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.12	0.030	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Alachlor	ND	0.12	0.021	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Atrazine	ND	0.12	0.030	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Chlorpyrifos	ND	0.12	0.021	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Cyanazine	ND	0.12	0.024	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Deisopropylatrazine	ND	0.12	0.024	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Desethylatrazine	ND	0.12	0.033	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Dimethenamid	ND	0.12	0.018	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
EPTC	ND	0.12	0.018	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Ethalfuralin	ND	0.12	0.042	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Fonofos	ND	0.12	0.012	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Metolachlor	ND	0.12	0.0090	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Metribuzin	ND	0.12	0.027	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Pendimethalin	ND	0.12	0.048	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Phorate	ND	0.12	0.018	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Prometon	ND	0.12	0.018	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Propachlor	ND	0.12	0.027	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Propazine	ND	0.12	0.021	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Simazine	ND	0.12	0.027	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Terbufos	ND	0.12	0.027	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Triallate	ND	0.12	0.015	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Trifluralin	ND	0.12	0.042	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Surrogate: Atrazine-d5	75.7 %	Limits: 50-125%			B9F0564	6/29/09	7/7/09	EPA 8270C	
Surrogate: Diazinon-d10	76.6 %	Limits: 35-120%			B9F0564	6/29/09	7/7/09	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Phase 2
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0903011
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC3-TT3 - 0.5'

0903011-03 (Soil)

6/15/09 15:30

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.15	0.027	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
2,4,5-T.P.	ND	0.15	0.021	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
2,4-D	ND	0.15	0.037	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
2,4-D.B.	ND	0.15	0.034	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Bentazon	ND	0.15	0.027	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	qn
Dicamba	ND	0.15	0.024	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Dinoseb	ND	0.15	0.015	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
M.C.P.A.	ND	0.15	0.043	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Pentachlorophenol	ND	0.15	0.021	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Picloram	ND	0.15	0.034	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Triclopyr	ND	0.15	0.018	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Surrogate: D.C.A.A.	73.2 %	Limits: 50-125%			B9F0563	6/29/09	7/6/09	EPA 8270C	

Barr Engineering Company
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Minneapolis, MN 55435-4803

Client Ref: UMore Phase 2
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0903011
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC3-TT13 - 1'

0903011-04 (Soil)

6/15/09 16:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
% Solids	94	0.050	0.010	% Wt	B9F0380	6/18/09	6/18/09	EPA 3545 7.2	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	ND	0.13	0.032	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Alachlor	ND	0.13	0.022	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Atrazine	ND	0.13	0.032	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Chlorpyrifos	ND	0.13	0.022	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Cyanazine	ND	0.13	0.025	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Deisopropylatrazine	ND	0.13	0.025	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Desethylatrazine	ND	0.13	0.035	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Dimethenamid	ND	0.13	0.019	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
EPTC	ND	0.13	0.019	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Ethalfuralin	ND	0.13	0.044	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Fonofos	ND	0.13	0.013	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Metolachlor	ND	0.13	0.0095	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Metribuzin	ND	0.13	0.029	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Pendimethalin	ND	0.13	0.051	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Phorate	ND	0.13	0.019	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Prometon	ND	0.13	0.019	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Propachlor	ND	0.13	0.029	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Propazine	ND	0.13	0.022	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Simazine	ND	0.13	0.029	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Terbufos	ND	0.13	0.029	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Triallate	ND	0.13	0.016	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Trifluralin	ND	0.13	0.044	mg/kg dry	B9F0564	6/29/09	7/7/09	EPA 8270C	
Surrogate: Atrazine-d5	82.4 %	Limits: 50-125%			B9F0564	6/29/09	7/7/09	EPA 8270C	
Surrogate: Diazinon-d10	85.9 %	Limits: 35-120%			B9F0564	6/29/09	7/7/09	EPA 8270C	

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Minneapolis, MN 55435-4803

Client Ref: UMore Phase 2
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0903011
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC3-TT13 - 1'

0903011-04 (Soil)

6/15/09 16:00

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	ND	0.15	0.027	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
2,4,5-T.P.	ND	0.15	0.021	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
2,4-D	ND	0.15	0.037	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
2,4-D.B.	ND	0.15	0.034	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Bentazon	ND	0.15	0.027	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	qn
Dicamba	ND	0.15	0.024	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Dinoseb	ND	0.15	0.015	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
M.C.P.A.	ND	0.15	0.043	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Pentachlorophenol	ND	0.15	0.021	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Picloram	ND	0.15	0.034	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Triclopyr	ND	0.15	0.018	mg/kg dry	B9F0563	6/29/09	7/6/09	EPA 8270C	
Surrogate: D.C.A.A.	74.8 %	Limits: 50-125%			B9F0563	6/29/09	7/6/09	EPA 8270C	



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Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore Phase 2 Client Contact: Ms. Kelly Nepl PO Number:	Work Order #: 0903011 Project Mgr: Steven J. Albrecht Account ID: B01058
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Classical Chemistry Parameters - Quality Control

Batch B9F0380 - % Solids

Method Blank (B9F0380-BLK1)

Prepared & Analyzed: 06/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	ND	0.050	0.010	% Wt	NA	NA	NA	NA	NA	NA	

Duplicate (B9F0380-DUP1)

Source: 0903011-04

Prepared & Analyzed: 06/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	93.0	0.050	0.010	% Wt	NA	93.7	NA	NA	0.695	20	

Standard Reference Material (B9F0380-SRM1)

Prepared & Analyzed: 06/18/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	88.1			% Wt	91.3	NA	96.5	90-110	NA	NA	

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Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0564 - EPA 3546

Method Blank (B9F0564-BLK1)

Prepared: 06/29/09 Analyzed: 07/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	ND	0.079	0.020	mg/kg	NA	NA	NA	NA	NA	NA	
Alachlor	ND	0.079	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Atrazine	ND	0.079	0.020	mg/kg	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	ND	0.079	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Cyanazine	ND	0.079	0.016	mg/kg	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	ND	0.079	0.016	mg/kg	NA	NA	NA	NA	NA	NA	
Desethylatrazine	ND	0.079	0.022	mg/kg	NA	NA	NA	NA	NA	NA	
Dimethenamid	ND	0.079	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
EPTC	ND	0.079	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
Ethalfuralin	ND	0.079	0.028	mg/kg	NA	NA	NA	NA	NA	NA	
Fonofos	ND	0.079	0.0079	mg/kg	NA	NA	NA	NA	NA	NA	
Metolachlor	ND	0.079	0.0059	mg/kg	NA	NA	NA	NA	NA	NA	
Metribuzin	ND	0.079	0.018	mg/kg	NA	NA	NA	NA	NA	NA	
Pendimethalin	ND	0.079	0.031	mg/kg	NA	NA	NA	NA	NA	NA	
Phorate	ND	0.079	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
Prometon	ND	0.079	0.012	mg/kg	NA	NA	NA	NA	NA	NA	
Propachlor	ND	0.079	0.018	mg/kg	NA	NA	NA	NA	NA	NA	
Propazine	ND	0.079	0.014	mg/kg	NA	NA	NA	NA	NA	NA	
Simazine	ND	0.079	0.018	mg/kg	NA	NA	NA	NA	NA	NA	
Terbufos	ND	0.079	0.018	mg/kg	NA	NA	NA	NA	NA	NA	
Triallate	ND	0.079	0.0098	mg/kg	NA	NA	NA	NA	NA	NA	
Trifluralin	ND	0.079	0.028	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	0.543			mg/kg	0.656	NA	82.8	50-125			
Surrogate: Diazinon-d10	0.561			mg/kg	0.656	NA	85.5	35-120			

Laboratory Control Sample (B9F0564-BS1)

Prepared: 06/29/09 Analyzed: 07/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.534	0.079	0.020	mg/kg	0.662	NA	80.7	70-120	NA	NA	
Alachlor	0.545	0.079	0.014	mg/kg	0.662	NA	82.3	70-120	NA	NA	
Atrazine	0.553	0.079	0.020	mg/kg	0.662	NA	83.5	70-120	NA	NA	
Chlorpyrifos	0.499	0.079	0.014	mg/kg	0.662	NA	75.3	70-120	NA	NA	
Cyanazine	0.542	0.079	0.016	mg/kg	0.662	NA	81.9	70-120	NA	NA	
Deisopropylatrazine	0.530	0.079	0.016	mg/kg	0.662	NA	80.0	65-115	NA	NA	
Desethylatrazine	0.561	0.079	0.022	mg/kg	0.662	NA	84.7	70-120	NA	NA	
Dimethenamid	0.527	0.079	0.012	mg/kg	0.662	NA	79.6	70-120	NA	NA	
EPTC	0.423	0.079	0.012	mg/kg	0.662	NA	63.8	60-105	NA	NA	
Ethalfuralin	0.533	0.079	0.028	mg/kg	0.662	NA	80.5	70-120	NA	NA	
Fonofos	0.503	0.079	0.0079	mg/kg	0.662	NA	76.0	70-115	NA	NA	
Metolachlor	0.542	0.079	0.0060	mg/kg	0.662	NA	81.8	70-120	NA	NA	
Metribuzin	0.564	0.079	0.018	mg/kg	0.662	NA	85.1	70-120	NA	NA	
Pendimethalin	0.582	0.079	0.032	mg/kg	0.662	NA	87.9	70-120	NA	NA	
Phorate	0.498	0.079	0.012	mg/kg	0.662	NA	75.2	70-115	NA	NA	
Prometon	0.548	0.079	0.012	mg/kg	0.662	NA	82.8	70-120	NA	NA	
Propachlor	0.510	0.079	0.018	mg/kg	0.662	NA	77.0	70-115	NA	NA	



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Barr Engineering Company
 4700 West 77th Street
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Client Ref: UMore Phase 2
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 PO Number:

Work Order #: 0903011
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0564 - EPA 3546

Laboratory Control Sample (B9F0564-BS1)

Prepared: 06/29/09 Analyzed: 07/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Propazine	0.529	0.079	0.014	mg/kg	0.662	NA	79.9	70-120	NA	NA	
Simazine	0.509	0.079	0.018	mg/kg	0.662	NA	76.8	60-115	NA	NA	
Terbufos	0.507	0.079	0.018	mg/kg	0.662	NA	76.6	70-115	NA	NA	
Triallate	0.501	0.079	0.0099	mg/kg	0.662	NA	75.7	70-115	NA	NA	
Trifluralin	0.493	0.079	0.028	mg/kg	0.662	NA	74.5	70-115	NA	NA	
Surrogate: Atrazine-d5	0.523			mg/kg	0.662	NA	78.9	50-125			
Surrogate: Diazinon-d10	0.517			mg/kg	0.662	NA	78.0	35-120			

Laboratory Control Sample Duplicate (B9F0564-BSD1)

Prepared: 06/29/09 Analyzed: 07/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.518	0.076	0.019	mg/kg	0.636	NA	81.5	70-120	3.04	20	
Alachlor	0.515	0.076	0.013	mg/kg	0.636	NA	81.0	70-120	5.61	20	
Atrazine	0.524	0.076	0.019	mg/kg	0.636	NA	82.3	70-120	5.47	20	
Chlorpyrifos	0.481	0.076	0.013	mg/kg	0.636	NA	75.6	70-120	3.63	20	
Cyanazine	0.504	0.076	0.015	mg/kg	0.636	NA	79.2	70-120	7.37	20	
Deisopropylatrazine	0.497	0.076	0.015	mg/kg	0.636	NA	78.2	65-115	6.30	20	
Desethylatrazine	0.533	0.076	0.021	mg/kg	0.636	NA	83.8	70-120	5.09	20	
Dimethenamid	0.505	0.076	0.011	mg/kg	0.636	NA	79.4	70-120	4.27	20	
EPTC	0.425	0.076	0.011	mg/kg	0.636	NA	66.8	60-105	0.571	20	
Ethalfuralin	0.517	0.076	0.027	mg/kg	0.636	NA	81.3	70-120	3.03	20	
Fonofos	0.489	0.076	0.0076	mg/kg	0.636	NA	76.8	70-115	2.98	20	
Metolachlor	0.515	0.076	0.0057	mg/kg	0.636	NA	80.9	70-120	5.13	20	
Metribuzin	0.525	0.076	0.017	mg/kg	0.636	NA	82.6	70-120	7.00	20	
Pendimethalin	0.550	0.076	0.031	mg/kg	0.636	NA	86.5	70-120	5.63	20	
Phorate	0.487	0.076	0.011	mg/kg	0.636	NA	76.6	70-115	2.18	20	
Prometon	0.506	0.076	0.011	mg/kg	0.636	NA	79.6	70-120	7.96	20	
Propachlor	0.501	0.076	0.017	mg/kg	0.636	NA	78.8	70-115	1.71	20	
Propazine	0.503	0.076	0.013	mg/kg	0.636	NA	79.0	70-120	5.16	20	
Simazine	0.472	0.076	0.017	mg/kg	0.636	NA	74.2	60-115	7.46	20	
Terbufos	0.485	0.076	0.017	mg/kg	0.636	NA	76.3	70-115	4.42	20	
Triallate	0.485	0.076	0.0095	mg/kg	0.636	NA	76.3	70-115	3.23	20	
Trifluralin	0.482	0.076	0.027	mg/kg	0.636	NA	75.7	70-115	2.43	20	
Surrogate: Atrazine-d5	0.494			mg/kg	0.636	NA	77.7	50-125			
Surrogate: Diazinon-d10	0.493			mg/kg	0.636	NA	77.5	35-120			



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 PO Number:

Work Order #: 0903011
 Project Mgr: Steven J. Albrecht
 Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0564 - EPA 3546

Matrix Spike (B9F0564-MS1)

Source: 0903011-02

Prepared: 06/29/09 Analyzed: 07/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.736	0.12	0.030	mg/kg dry	0.985	ND	74.7	50-120	NA	NA	
Alachlor	0.769	0.12	0.021	mg/kg dry	0.985	ND	78.1	55-120	NA	NA	
Atrazine	0.768	0.12	0.030	mg/kg dry	0.985	ND	78.0	60-120	NA	NA	
Chlorpyrifos	0.725	0.12	0.021	mg/kg dry	0.985	ND	73.6	40-125	NA	NA	
Cyanazine	0.737	0.12	0.024	mg/kg dry	0.985	ND	74.8	55-125	NA	NA	
Deisopropylatrazine	0.725	0.12	0.024	mg/kg dry	0.985	ND	73.6	55-120	NA	NA	
Desethylatrazine	0.767	0.12	0.033	mg/kg dry	0.985	ND	77.9	60-125	NA	NA	
Dimethenamid	0.740	0.12	0.018	mg/kg dry	0.985	ND	75.1	55-120	NA	NA	
EPTC	0.626	0.12	0.018	mg/kg dry	0.985	ND	63.5	40-105	NA	NA	
Ethalfuralin	0.742	0.12	0.041	mg/kg dry	0.985	ND	75.3	40-120	NA	NA	
Fonofos	0.708	0.12	0.012	mg/kg dry	0.985	ND	71.9	45-115	NA	NA	
Metolachlor	0.752	0.12	0.0089	mg/kg dry	0.985	ND	76.3	50-125	NA	NA	
Metribuzin	0.794	0.12	0.027	mg/kg dry	0.985	ND	80.6	55-125	NA	NA	
Pendimethalin	0.803	0.12	0.047	mg/kg dry	0.985	ND	81.5	40-120	NA	NA	
Phorate	0.715	0.12	0.018	mg/kg dry	0.985	ND	72.6	40-115	NA	NA	
Prometon	0.738	0.12	0.018	mg/kg dry	0.985	ND	74.9	60-125	NA	NA	
Propachlor	0.734	0.12	0.027	mg/kg dry	0.985	ND	74.5	60-115	NA	NA	
Propazine	0.735	0.12	0.021	mg/kg dry	0.985	ND	74.6	55-120	NA	NA	
Simazine	0.718	0.12	0.027	mg/kg dry	0.985	ND	72.9	50-120	NA	NA	
Terbufos	0.712	0.12	0.027	mg/kg dry	0.985	ND	72.3	40-120	NA	NA	
Triallate	0.711	0.12	0.015	mg/kg dry	0.985	ND	72.2	40-115	NA	NA	
Trifluralin	0.685	0.12	0.041	mg/kg dry	0.985	ND	69.5	40-115	NA	NA	
Surrogate: Atrazine-d5	0.725			mg/kg dry	0.985	NA	73.6	50-125			
Surrogate: Diazinon-d10	0.718			mg/kg dry	0.985	NA	72.9	35-120			

Matrix Spike Duplicate (B9F0564-MSD1)

Source: 0903011-02

Prepared: 06/29/09 Analyzed: 07/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	0.801	0.12	0.030	mg/kg dry	0.987	ND	81.2	50-120	8.53	25	
Alachlor	0.790	0.12	0.021	mg/kg dry	0.987	ND	80.0	55-120	2.60	25	
Atrazine	0.808	0.12	0.030	mg/kg dry	0.987	ND	81.9	60-120	5.07	25	
Chlorpyrifos	0.765	0.12	0.021	mg/kg dry	0.987	ND	77.5	40-125	5.35	25	
Cyanazine	0.808	0.12	0.024	mg/kg dry	0.987	ND	81.9	55-125	9.25	25	
Deisopropylatrazine	0.810	0.12	0.024	mg/kg dry	0.987	ND	82.1	55-120	11.1	25	
Desethylatrazine	0.832	0.12	0.033	mg/kg dry	0.987	ND	84.3	60-125	8.08	25	
Dimethenamid	0.795	0.12	0.018	mg/kg dry	0.987	ND	80.6	55-120	7.26	25	
EPTC	0.663	0.12	0.018	mg/kg dry	0.987	ND	67.2	40-105	5.85	25	
Ethalfuralin	0.766	0.12	0.041	mg/kg dry	0.987	ND	77.6	40-120	3.20	25	
Fonofos	0.744	0.12	0.012	mg/kg dry	0.987	ND	75.4	45-115	4.94	25	
Metolachlor	0.805	0.12	0.0089	mg/kg dry	0.987	ND	81.6	50-125	6.90	25	
Metribuzin	0.842	0.12	0.027	mg/kg dry	0.987	ND	85.3	55-125	5.86	25	
Pendimethalin	0.884	0.12	0.047	mg/kg dry	0.987	ND	89.6	40-120	9.66	25	
Phorate	0.725	0.12	0.018	mg/kg dry	0.987	ND	73.5	40-115	1.42	25	
Prometon	0.806	0.12	0.018	mg/kg dry	0.987	ND	81.7	60-125	8.88	25	
Propachlor	0.758	0.12	0.027	mg/kg dry	0.987	ND	76.8	60-115	3.23	25	



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Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9F0564 - EPA 3546

Matrix Spike Duplicate (B9F0564-MSD1)

Source: 0903011-02

Prepared: 06/29/09 Analyzed: 07/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Propazine	0.782	0.12	0.021	mg/kg dry	0.987	ND	79.2	55-120	6.17	25	
Simazine	0.729	0.12	0.027	mg/kg dry	0.987	ND	73.9	50-120	1.55	25	
Terbufos	0.753	0.12	0.027	mg/kg dry	0.987	ND	76.3	40-120	5.58	25	
Triallate	0.746	0.12	0.015	mg/kg dry	0.987	ND	75.6	40-115	4.79	25	
Trifluralin	0.719	0.12	0.041	mg/kg dry	0.987	ND	72.8	40-115	4.83	25	
Surrogate: Atrazine-d5	0.758			mg/kg dry	0.987	NA	76.8	50-125			
Surrogate: Diazinon-d10	0.750			mg/kg dry	0.987	NA	76.0	35-120			

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Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0563 - EPA 3546

Method Blank (B9F0563-BLK1)

Prepared: 06/29/09 Analyzed: 07/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	ND	0.095	0.017	mg/kg	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	ND	0.095	0.013	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D	ND	0.095	0.023	mg/kg	NA	NA	NA	NA	NA	NA	
2,4-D.B.	ND	0.095	0.021	mg/kg	NA	NA	NA	NA	NA	NA	
Bentazon	ND	0.095	0.017	mg/kg	NA	NA	NA	NA	NA	NA	
Dicamba	ND	0.095	0.015	mg/kg	NA	NA	NA	NA	NA	NA	
Dinoseb	ND	0.095	0.0095	mg/kg	NA	NA	NA	NA	NA	NA	
M.C.P.A.	ND	0.095	0.027	mg/kg	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	ND	0.095	0.013	mg/kg	NA	NA	NA	NA	NA	NA	
Picloram	ND	0.095	0.021	mg/kg	NA	NA	NA	NA	NA	NA	
Triclopyr	ND	0.095	0.011	mg/kg	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	0.285			mg/kg	0.318	NA	89.8	50-125			

Laboratory Control Sample (B9F0563-BS1)

Prepared: 06/29/09 Analyzed: 07/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.257	0.098	0.018	mg/kg	0.328	NA	78.4	60-125	NA	NA	
2,4,5-T.P.	0.272	0.098	0.014	mg/kg	0.328	NA	83.0	65-125	NA	NA	
2,4-D	0.279	0.098	0.024	mg/kg	0.328	NA	85.0	60-125	NA	NA	
2,4-D.B.	0.282	0.098	0.022	mg/kg	0.328	NA	85.8	70-130	NA	NA	
Bentazon	0.291	0.098	0.018	mg/kg	0.328	NA	88.6	65-125	NA	NA	
Dicamba	0.276	0.098	0.016	mg/kg	0.328	NA	84.2	60-120	NA	NA	
Dinoseb	0.129	0.098	0.0098	mg/kg	0.328	NA	39.4	30-120	NA	NA	
M.C.P.A.	0.269	0.098	0.028	mg/kg	0.328	NA	82.0	60-115	NA	NA	
Pentachlorophenol	0.217	0.098	0.014	mg/kg	0.328	NA	66.0	50-120	NA	NA	
Picloram	0.241	0.098	0.022	mg/kg	0.328	NA	73.4	30-100	NA	NA	
Triclopyr	0.263	0.098	0.012	mg/kg	0.328	NA	80.2	65-120	NA	NA	
Surrogate: D.C.A.A.	0.271			mg/kg	0.328	NA	82.6	50-125			

Laboratory Control Sample Duplicate (B9F0563-BSD1)

Prepared: 06/29/09 Analyzed: 07/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.264	0.10	0.018	mg/kg	0.333	NA	79.4	60-125	2.66	25	
2,4,5-T.P.	0.266	0.10	0.014	mg/kg	0.333	NA	80.0	65-125	2.29	25	
2,4-D	0.294	0.10	0.024	mg/kg	0.333	NA	88.4	60-125	5.31	25	
2,4-D.B.	0.280	0.10	0.022	mg/kg	0.333	NA	84.0	70-130	0.732	25	
Bentazon	0.283	0.10	0.018	mg/kg	0.333	NA	85.0	65-125	2.76	25	
Dicamba	0.278	0.10	0.016	mg/kg	0.333	NA	83.4	60-120	0.434	25	
Dinoseb	0.170	0.10	0.010	mg/kg	0.333	NA	51.2	30-120	27.4	25	
M.C.P.A.	0.258	0.10	0.028	mg/kg	0.333	NA	77.4	60-115	4.38	25	
Pentachlorophenol	0.230	0.10	0.014	mg/kg	0.333	NA	69.0	50-120	5.83	25	
Picloram	0.230	0.10	0.022	mg/kg	0.333	NA	69.0	30-100	4.79	25	
Triclopyr	0.252	0.10	0.012	mg/kg	0.333	NA	75.8	65-120	4.25	25	
Surrogate: D.C.A.A.	0.272			mg/kg	0.333	NA	81.8	50-125			



11001 Hampshire Ave. S.
 Minneapolis, MN 55438
 952.995.2000 Phone
 952.995.2020 Fax

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore Phase 2 Client Contact: Ms. Kelly Neppel PO Number:	Work Order #: 0903011 Project Mgr: Steven J. Albrecht Account ID: B01058
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Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9F0563 - EPA 3546

Laboratory Control Sample Duplicate (B9F0563-BSD1)

Prepared: 06/29/09 Analyzed: 07/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Matrix Spike (B9F0563-MS1)

Source: 0903011-03

Prepared: 06/29/09 Analyzed: 07/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.437	0.15	0.027	mg/kg dry	0.500	ND	87.4	30-130	NA	NA	
2,4,5-T.P.	0.435	0.15	0.021	mg/kg dry	0.500	ND	87.0	40-130	NA	NA	
2,4-D	0.427	0.15	0.036	mg/kg dry	0.500	ND	85.4	30-125	NA	NA	
2,4-D.B.	0.428	0.15	0.033	mg/kg dry	0.500	ND	85.6	70-130	NA	NA	
Bentazon	0.273	0.15	0.027	mg/kg dry	0.500	ND	54.6	65-125	NA	NA	
Dicamba	0.428	0.15	0.024	mg/kg dry	0.500	ND	85.6	30-120	NA	NA	
Dinoseb	0.275	0.15	0.015	mg/kg dry	0.500	ND	55.0	30-120	NA	NA	
M.C.P.A.	0.427	0.15	0.042	mg/kg dry	0.500	ND	85.4	30-120	NA	NA	
Pentachlorophenol	0.370	0.15	0.021	mg/kg dry	0.500	ND	74.0	50-120	NA	NA	
Picloram	0.302	0.15	0.033	mg/kg dry	0.500	ND	60.4	30-100	NA	NA	
Triclopyr	0.437	0.15	0.018	mg/kg dry	0.500	ND	87.4	30-120	NA	NA	

Surrogate: D.C.A.A.

0.439 mg/kg dry 0.500 NA 87.8 50-125

Matrix Spike Duplicate (B9F0563-MSD1)

Source: 0903011-03

Prepared: 06/29/09 Analyzed: 07/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	0.373	0.15	0.027	mg/kg dry	0.497	ND	75.0	30-130	15.9	25	
2,4,5-T.P.	0.409	0.15	0.021	mg/kg dry	0.497	ND	82.4	40-130	6.11	25	
2,4-D	0.403	0.15	0.036	mg/kg dry	0.497	ND	81.2	30-125	5.72	25	
2,4-D.B.	0.426	0.15	0.033	mg/kg dry	0.497	ND	85.8	70-130	0.445	25	
Bentazon	0.340	0.15	0.027	mg/kg dry	0.497	ND	68.4	65-125	21.8	25	
Dicamba	0.392	0.15	0.024	mg/kg dry	0.497	ND	79.0	30-120	8.70	25	
Dinoseb	0.214	0.15	0.015	mg/kg dry	0.497	ND	43.0	30-120	25.2	25	
M.C.P.A.	0.402	0.15	0.042	mg/kg dry	0.497	ND	81.0	30-120	5.97	25	
Pentachlorophenol	0.356	0.15	0.021	mg/kg dry	0.497	ND	71.6	50-120	3.97	25	
Picloram	0.275	0.15	0.033	mg/kg dry	0.497	ND	55.4	30-100	9.31	25	
Triclopyr	0.401	0.15	0.018	mg/kg dry	0.497	ND	80.8	30-120	8.52	25	

Surrogate: D.C.A.A.

0.391 mg/kg dry 0.497 NA 78.6 50-125

BRAUN INTERTEC

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Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore Phase 2
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0903011
Project Mgr: Steven J. Albrecht
Account ID: B01058

0903011

BARR
Chain of Custody
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number
23 / 19 - B0550C 350

Project Name
UMore Phase 2 No 28077

Sample Identification	Collection		Matrix		Type	Number of Containers/Preservative																		Total No. Of Containers	Remarks			
	Date	Time	Water	Soil		Graph	Comp	QC	Water									Soil										
									Volatiles Organics (Pres.) *1	Semivolatile Organics *2	Dissolved Metals (HNO ₃)	Total Metals (HNO ₃)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H ₂ SO ₄) *4	Oil and Grease (H ₂ SO ₄)	Sulfide (Zn Acetate)	Methane	Bacteria (Na ₂ S ₂ O ₃)	DRO (HCl)	VOCs (2-oz tared MeOH) *1	GRX, BTEX (2-oz tared MeOH) *1	DRO (2-oz tared) - 25 grams			Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)
1. SOC3-TT6-0-1'	6/15/09	1400	X	X																				3	Analyze List 1 and 2 Pesticides			
2. SOC3-TT9-7-8'		1430	X	X																				3				
3. SOC3-TT3- 0-5'		1530	X	X																				3				
4. SOC3-TT13- TT3-1'		1600	X	X																				3				
5.																												
6.																												
7.																												
8.																												
9.																												
10.																												
11.																												
12.																										2.4°C + ICE + TT3		

Common Parameter/Container - Preservation Key

*1 - Volatile Organics = BTEX, GRX, TPH, Full List
*2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
*3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By: <i>[Signature]</i>	On Ice? <input checked="" type="checkbox"/> N	Date: 6/16/09	Time: 700	Received by: <i>[Signature]</i>	Date: 6/17/09	Time: 12:45
Relinquished By: <i>[Signature]</i>	On Ice? <input checked="" type="checkbox"/> N	Date: 6/17/09	Time: 13:29	Received by: <i>[Signature]</i>	Date: 6/17/09	Time: 1355
Samples Shipped Via: <input type="checkbox"/> Air Freight <input type="checkbox"/> Federal Express <input type="checkbox"/> Shipper <input type="checkbox"/> Other _____				Air Bill Number:		

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

HRL0521FORMS/Chain of Custody Form RLG Rev. 07/01/05

BRAUN **INTERTEC**

Braun Intertec Corporation
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Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

September 25, 2009

Work Order #: 0905208

RE: UMore UMA-SSI/RI 23/19-B05.07 SOC 325

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 21, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,



Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117

Wisconsin DNR: 999462640

Providing engineering and environmental solutions since 1957

Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SOC 325	Work Order #: 0905208
4700 West 77th Street	Client Contact: Ms. Kelly Neppel	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SOC 325
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0905208
Project Mgr: Steven J. Albrecht
Account ID: B01058

Qualifiers and Abbreviations

COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

Barr Engineering Company
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Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SOC 325
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0905208
Project Mgr: Steven J. Albrecht
Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC3-TT6R	0905208-01	Soil	09/18/09 13:30	09/21/09 10:30
M-2	0905208-02	Soil	09/18/09 00:00	09/21/09 10:30
SOC2-TT5R	0905208-03	Soil	09/18/09 14:15	09/21/09 10:30
SOC2-TT4R	0905208-04	Soil	09/18/09 14:30	09/21/09 10:30
SOC2-TT1R	0905208-05	Soil	09/18/09 14:45	09/21/09 10:30
SOC2-TT3R	0905208-07	Soil	09/18/09 15:30	09/21/09 10:30

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Work Order #: 0905208
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Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler 1

Temperature: 4.9 °C
Temperature Blank: No
Received on Ice: Yes
Preservation Confirmed: No

COC Included: Yes
COC Complete: Yes
COC & Labels Agree: Yes
Sufficient Sample Provided: Yes

Custody Seals Used: No
Custody Seals Intact: NA
Hand Delivered by Client: No
Headspace Present (VOC): No

Barr Engineering Company
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Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SOC 325
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0905208
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC3-TT6R
0905208-01 (Soil)
9/18/09 13:30

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	<2.7	2.7	0.37	mg/kg dry	B9I0419	9/21/09 11:30	9/22/09 15:19	EPA 7199	
% Solids	90	0.050	0.010	% Wt	B9I0470	9/23/09 6:03	9/23/09 15:49	EPA 3545 7.2	

Barr Engineering Company
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Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SOC 325
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0905208
Project Mgr: Steven J. Albrecht
Account ID: B01058

M-2
0905208-02 (Soil)
9/18/09 0:00

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	<2.6	2.6	0.36	mg/kg dry	B9I0419	9/21/09 11:30	9/22/09 15:19	EPA 7199	
% Solids	88	0.050	0.010	% Wt	B9I0470	9/23/09 6:03	9/23/09 15:49	EPA 3545 7.2	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SOC 325
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0905208
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC2-TT5R
0905208-03 (Soil)
9/18/09 14:15

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	<2.5	2.5	0.35	mg/kg dry	B9I0419	9/21/09 11:30	9/22/09 15:19	EPA 7199	
% Solids	89	0.050	0.010	% Wt	B9I0470	9/23/09 6:03	9/23/09 15:49	EPA 3545 7.2	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SOC 325
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0905208
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC2-TT4R
0905208-04 (Soil)
9/18/09 14:30

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	<2.5	2.5	0.35	mg/kg dry	B9I0419	9/21/09 11:30	9/22/09 15:19	EPA 7199	
% Solids	88	0.050	0.010	% Wt	B9I0470	9/23/09 6:03	9/23/09 15:49	EPA 3545 7.2	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SOC 325
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0905208
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC2-TT1R
0905208-05 (Soil)
9/18/09 14:45

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	<2.5	2.5	0.35	mg/kg dry	B9I0419	9/21/09 11:30	9/22/09 15:19	EPA 7199	
% Solids	87	0.050	0.010	% Wt	B9I0470	9/23/09 6:03	9/23/09 15:49	EPA 3545 7.2	

Barr Engineering Company
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Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SOC 325
Client Contact: Ms. Kelly Nepl
PO Number:

Work Order #: 0905208
Project Mgr: Steven J. Albrecht
Account ID: B01058

SOC2-TT3R
0905208-07 (Soil)
9/18/09 15:30

Classical Chemistry Parameters

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	<2.8	2.8	0.39	mg/kg dry	B9I0419	9/21/09 11:30	9/22/09 15:19	EPA 7199	
% Solids	84	0.050	0.010	% Wt	B9I0470	9/23/09 6:03	9/23/09 15:49	EPA 3545 7.2	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SOC 325 Client Contact: Ms. Kelly Neppel PO Number:	Work Order #: 0905208 Project Mgr: Steven J. Albrecht Account ID: B01058
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Classical Chemistry Parameters - Quality Control

Batch B9I0419 - Default Prep GenChem

Method Blank (B9I0419-BLK1)												Prepared: 09/21/09	Analyzed: 09/22/09
Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Chromium, Hexavalent	<2.0	2.0	0.28	mg/kg	NA	NA	NA	NA	NA	NA			

Laboratory Control Sample (B9I0419-BS1)												Prepared: 09/21/09	Analyzed: 09/22/09
Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Chromium, Hexavalent	44.2	2.0	0.28	mg/kg	41.7	NA	106	80-120	NA	NA			

Laboratory Control Sample Duplicate (B9I0419-BSD1)												Prepared: 09/21/09	Analyzed: 09/22/09
Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Chromium, Hexavalent	42.1	2.0	0.28	mg/kg	41.7	NA	101	80-120	4.76	20			

Matrix Spike (B9I0419-MS1)												Source: 0905155-02	Prepared: 09/21/09	Analyzed: 09/22/09
Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes			
Chromium, Hexavalent	273	2.3	0.33	mg/kg dry	244	ND	112	75-125	NA	NA				

Matrix Spike Duplicate (B9I0419-MSD1)												Source: 0905155-02	Prepared: 09/21/09	Analyzed: 09/22/09
Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes			
Chromium, Hexavalent	238	2.1	0.29	mg/kg dry	214	ND	111	75-125	13.5	25				

Standard Reference Material (B9I0419-SRM1)												Prepared: 09/21/09	Analyzed: 09/22/09
Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Chromium, Hexavalent	70.9	2.2	0.31	mg/kg	109	NA	65.1	16.3-140	NA	NA			

Batch B9I0470 - % Solids

Method Blank (B9I0470-BLK1)												Prepared & Analyzed: 09/23/09
Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
% Solids	<0.050	0.050	0.010	% Wt	NA	NA	NA	NA	NA	NA		

Duplicate (B9I0470-DUP1)												Source: 0905201-03	Prepared & Analyzed: 09/23/09
Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
% Solids	70.3	0.050	0.010	% Wt	NA	74.1	NA	NA	5.32	20			

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SOC 325 Client Contact: Ms. Kelly Neppel PO Number:	Work Order #: 0905208 Project Mgr: Steven J. Albrecht Account ID: B01058
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Classical Chemistry Parameters - Quality Control

Batch B910470 - % Solids

Standard Reference Material (B910470-SRM1)

Prepared & Analyzed: 09/23/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
% Solids	88.7			% Wt	91.3	NA	97.2	90-110	NA	NA	

0905208

Chain of Custody				Number of Containers/Preservative		COC 1 of 1		
BARR 4700 West 77th Street Minneapolis, MN 55435-4803 (952) 832-2600				Water		Soil		
Project Number: 23/19-0B05.07 @ SRI 325				VOCs (HCl) #1		Total Number of Containers		
Project Name: UMA - SOC Investigation				SVOCS (unpreserved) #2		Project Manager: JSA/JME		
Sample Origination State: MN (use two letter postal state abbreviation)				Disturbed Metals (HNO ₃)		Project QC Contact: KJN/AAN		
COC Number: No 29838				Total Metals (HNO ₃)		Sampled by: KCB		
Location	Start Depth	Stop Depth	Depth Unit (m./ft. or in.)	Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Matrix	Type	Total Number of Containers
						Water	Soil	
1. SOC3-TT6R	0	1	ft	09/18/2009	1330	X	X	2
2. M-2	-	-	-			X	Y	2
3. SOC2-TT5R	0.5	1	ft		1415	X	X	2
4. SOC2-TT4R	0.5	1	ft		1430	Y	X	2
5. SOC2-TT1R	1.5	1.5	ft		1445	Y	Y	2
6. SOC2-TT ² 3R	0.5	1	ft		1500	Y	Y	2
7. SOC2-TT3R	0.5	1	ft		1530	X	X	2
8.								
9.								
10.								

Relinquished By: <i>[Signature]</i>	On Ice? <input checked="" type="checkbox"/> N	Date: 9/21/09	Time: 0950	Received by: <i>[Signature]</i>	Date: 9/21/09	Time: 1030
Relinquished By:	On Ice? <input type="checkbox"/> Y	Date:	Time:	Received by:	Date:	Time:
Samples Shipped VIA: <input type="checkbox"/> Air Freight <input type="checkbox"/> Federal Express <input type="checkbox"/> Sampler <input type="checkbox"/> Other: _____				Air Bill Number: 4.9°C + ICE		

Common Parameter/Container - Preservation Key
 #1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
 #2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
 #3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
 #4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

BRAUN **INTERTEC**

Braun Intertec Corporation
11001 Hampshire Avenue S.
Minneapolis, MN 55438

Phone: 952.995.2000
Fax: 952.995.2020
Web: braunintertec.com

Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

October 19, 2009

Work Order #: 0905429

RE: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 30, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,



Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117

Wisconsin DNR: 999462640

Providing engineering and environmental solutions since 1957

Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905429
4700 West 77th Street	Client Contact: Ms. Kelly Neppel	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0905429
Project Mgr: Steven J. Albrecht
Account ID: B01058

Qualifiers and Abbreviations

qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
J	Detected but below the Method Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
gp	The relative percent difference (RPD) for the laboratory control sample and laboratory control sample duplicate is outside of laboratory control limits.
go	The laboratory control sample recovery is outside of laboratory control limits.
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300 Client Contact: Ms. Kelly Neppl PO Number:	Work Order #: 0905429 Project Mgr: Steven J. Albrecht Account ID: B01058
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SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-D3-007	0905429-01	Water	09/29/09 15:30	09/30/09 08:20
MW-E2-305	0905429-02	Water	09/29/09 17:35	09/30/09 08:20
FB-1	0905429-03	Water	09/29/09 18:20	09/30/09 08:20

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0905429
Project Mgr: Steven J. Albrecht
Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler 1

Temperature: 1.7 °C	COC Included: Yes	Custody Seals Used: No
Temperature Blank: Yes	COC Complete: Yes	Custody Seals Intact: NA
Received on Ice: Yes	COC & Labels Agree: Yes	Hand Delivered by Client: Yes
Preservation Confirmed: Yes	Sufficient Sample Provided: Yes	Headspace Present (VOC): No

Cooler: Cooler 2

Temperature: 0.8 °C	COC Included: Yes	Custody Seals Used: No
Temperature Blank: Yes	COC Complete: Yes	Custody Seals Intact: NA
Received on Ice: Yes	COC & Labels Agree: Yes	Hand Delivered by Client: Yes
Preservation Confirmed: No	Sufficient Sample Provided: Yes	Headspace Present (VOC): No

Cooler: Cooler 3

Temperature: 1.9 °C	COC Included: Yes	Custody Seals Used: No
Temperature Blank: Yes	COC Complete: Yes	Custody Seals Intact: NA
Received on Ice: Yes	COC & Labels Agree: Yes	Hand Delivered by Client: Yes
Preservation Confirmed: Yes	Sufficient Sample Provided: Yes	Headspace Present (VOC): No

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300 Client Contact: Ms. Kelly Neppl PO Number:	Work Order #: 0905429 Project Mgr: Steven J. Albrecht Account ID: B01058
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MW-D3-007
0905429-01 (Water)
9/29/09 15:30

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	
4,4'-DDE	<0.016	0.25	0.016	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	
4,4'-DDT	<0.020	0.25	0.020	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	
Aldrin	<0.018	0.25	0.018	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	
alpha-BHC	<0.021	0.25	0.021	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	go
alpha-Chlordane	<0.016	0.25	0.016	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	
beta-BHC	<0.016	0.25	0.016	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	
delta-BHC	<0.014	0.25	0.014	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	
Dieldrin	<0.024	0.25	0.024	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	
Endosulfan I	<0.021	0.25	0.021	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	
Endosulfan II	<0.019	0.25	0.019	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	
Endrin	<0.020	0.25	0.020	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	
Endrin Ketone	<0.019	0.25	0.019	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	
gamma-BHC	<0.020	0.25	0.020	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	go
gamma-Chlordane	<0.042	0.25	0.042	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	
Heptachlor	<0.018	0.25	0.018	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	
Methoxychlor	<0.026	0.25	0.026	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	
Toxaphene	<1.0	5.0	1.0	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:24	EPA 8081A	
<i>Surr: DBC</i>	<i>74.0 %</i>	<i>Limits: 40-130%</i>			<i>B9J0048</i>	<i>10/2/09 16:48</i>	<i>10/6/09 3:24</i>	<i>EPA 8081A</i>	
<i>Surr: TCMX</i>	<i>60.0 %</i>	<i>Limits: 40-120%</i>			<i>B9J0048</i>	<i>10/2/09 16:48</i>	<i>10/6/09 3:24</i>	<i>EPA 8081A</i>	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	
Alachlor	<0.19	0.50	0.19	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	
Atrazine	<0.24	0.50	0.24	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	
Cyanazine	<0.48	0.50	0.48	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	
Desethylatrazine	<0.29	0.50	0.29	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	
Dimethenamid	<0.24	0.50	0.24	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	
EPTC	<0.22	0.50	0.22	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	
Ethalfuralin	<0.47	0.50	0.47	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	
Fonofos	<0.30	0.50	0.30	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	
Metolachlor	<0.28	0.50	0.28	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	
Metribuzin	<0.35	0.50	0.35	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	
Pendimethalin	<0.25	0.50	0.25	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300 Client Contact: Ms. Kelly Neppel PO Number:	Work Order #: 0905429 Project Mgr: Steven J. Albrecht Account ID: B01058
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MW-D3-007
0905429-01 (Water)
9/29/09 15:30

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Phorate	<0.58	1.0	0.58	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	qn
Prometon	<0.29	0.50	0.29	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	
Propachlor	<0.14	0.50	0.14	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	
Propazine	<0.21	0.50	0.21	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	
Simazine	<0.32	0.50	0.32	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	go, qn
Terbufos	<0.54	1.0	0.54	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	
Triallate	<0.34	0.50	0.34	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	
Trifluralin	<0.21	0.50	0.21	ug/L	B9J0033	10/2/09 8:54	10/5/09 22:49	EPA 8270C	
<i>Surr: Atrazine-d5</i>	<i>110 %</i>	<i>Limits: 50-120%</i>			<i>B9J0033</i>	<i>10/2/09 8:54</i>	<i>10/5/09 22:49</i>	<i>EPA 8270C</i>	
<i>Surr: Diazinon-d10</i>	<i>111 %</i>	<i>Limits: 50-120%</i>			<i>B9J0033</i>	<i>10/2/09 8:54</i>	<i>10/5/09 22:49</i>	<i>EPA 8270C</i>	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.56	0.56	0.35	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:36	EPA 8270C	gp
2,4,5-T.P.	<0.56	0.56	0.32	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:36	EPA 8270C	
2,4-D	<0.56	0.56	0.30	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:36	EPA 8270C	
2,4-D.B.	<0.56	0.56	0.17	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:36	EPA 8270C	
Bentazon	<0.56	0.56	0.25	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:36	EPA 8270C	
Dicamba	<0.56	0.56	0.43	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:36	EPA 8270C	
Dinoseb	<0.56	0.56	0.39	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:36	EPA 8270C	
M.C.P.A.	<0.34	0.34	0.33	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:36	EPA 8270C	
Pentachlorophenol	<0.56	0.56	0.44	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:36	EPA 8270C	
Picloram	<0.56	0.56	0.28	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:36	EPA 8270C	
Triclopyr	<0.56	0.56	0.46	ug/L	B9J0038	10/2/09 11:14	10/7/09 16:36	EPA 8270C	
<i>Surr: D.C.A.A.</i>	<i>88.6 %</i>	<i>Limits: 65-130%</i>			<i>B9J0038</i>	<i>10/2/09 11:14</i>	<i>10/7/09 16:36</i>	<i>EPA 8270C</i>	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0905429
Project Mgr: Steven J. Albrecht
Account ID: B01058

MW-E2-305
0905429-02 (Water)
9/29/09 17:35

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	
4,4'-DDE	<0.016	0.25	0.016	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	
4,4'-DDT	<0.020	0.25	0.020	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	
Aldrin	<0.018	0.25	0.018	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	
alpha-BHC	<0.021	0.25	0.021	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	go
alpha-Chlordane	<0.016	0.25	0.016	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	
beta-BHC	<0.016	0.25	0.016	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	
delta-BHC	<0.014	0.25	0.014	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	
Dieldrin	<0.024	0.25	0.024	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	
Endosulfan I	<0.021	0.25	0.021	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	
Endosulfan II	<0.019	0.25	0.019	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	
Endrin	<0.020	0.25	0.020	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	
Endrin Ketone	<0.019	0.25	0.019	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	
gamma-BHC	<0.020	0.25	0.020	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	go
gamma-Chlordane	<0.042	0.25	0.042	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	
Heptachlor	<0.018	0.25	0.018	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	
Methoxychlor	<0.026	0.25	0.026	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	
Toxaphene	<1.0	5.0	1.0	ug/L	B9J0048	10/2/09 16:48	10/6/09 3:50	EPA 8081A	
<i>Surr: DBC</i>	<i>91.4 %</i>	<i>Limits: 40-130%</i>			<i>B9J0048</i>	<i>10/2/09 16:48</i>	<i>10/6/09 3:50</i>	<i>EPA 8081A</i>	
<i>Surr: TCMX</i>	<i>64.0 %</i>	<i>Limits: 40-120%</i>			<i>B9J0048</i>	<i>10/2/09 16:48</i>	<i>10/6/09 4:16</i>	<i>EPA 8081A</i>	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	
Alachlor	<0.19	0.50	0.19	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	
Atrazine	0.43 J	0.50	0.24	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	
Cyanazine	<0.48	0.50	0.48	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	
Desethylatrazine	0.37 J	0.50	0.29	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	
Dimethenamid	<0.24	0.50	0.24	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	
EPTC	<0.22	0.50	0.22	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	
Ethalfuralin	<0.47	0.50	0.47	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	
Fonofos	<0.30	0.50	0.30	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	
Metolachlor	<0.28	0.50	0.28	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	
Metribuzin	<0.35	0.50	0.35	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	
Pendimethalin	<0.25	0.50	0.25	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	

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4700 West 77th Street
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Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0905429
Project Mgr: Steven J. Albrecht
Account ID: B01058

MW-E2-305
0905429-02 (Water)
9/29/09 17:35

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Phorate	<0.58	1.0	0.58	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	qn
Prometon	<0.29	0.50	0.29	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	
Propachlor	<0.14	0.50	0.14	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	
Propazine	<0.21	0.50	0.21	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	
Simazine	<0.32	0.50	0.32	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	go, qn
Terbufos	<0.54	1.0	0.54	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	
Triallate	<0.34	0.50	0.34	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	
Trifluralin	<0.21	0.50	0.21	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:15	EPA 8270C	
<i>Surr: Atrazine-d5</i>	103 %	<i>Limits: 50-120%</i>			<i>B9J0033</i>	<i>10/2/09 8:54</i>	<i>10/5/09 23:15</i>	<i>EPA 8270C</i>	
<i>Surr: Diazinon-d10</i>	104 %	<i>Limits: 50-120%</i>			<i>B9J0033</i>	<i>10/2/09 8:54</i>	<i>10/5/09 23:15</i>	<i>EPA 8270C</i>	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.54	0.54	0.34	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:01	EPA 8270C	gp
2,4,5-T.P.	<0.54	0.54	0.31	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:01	EPA 8270C	
2,4-D	<0.54	0.54	0.29	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:01	EPA 8270C	
2,4-D.B.	<0.54	0.54	0.16	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:01	EPA 8270C	
Bentazon	0.65	0.54	0.24	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:01	EPA 8270C	
Dicamba	<0.54	0.54	0.41	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:01	EPA 8270C	
Dinoseb	<0.54	0.54	0.37	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:01	EPA 8270C	
M.C.P.A.	<0.33	0.33	0.32	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:01	EPA 8270C	
Pentachlorophenol	<0.54	0.54	0.43	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:01	EPA 8270C	
Picloram	<0.54	0.54	0.27	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:01	EPA 8270C	
Triclopyr	<0.54	0.54	0.44	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:01	EPA 8270C	
<i>Surr: D.C.A.A.</i>	87.2 %	<i>Limits: 65-130%</i>			<i>B9J0038</i>	<i>10/2/09 11:14</i>	<i>10/7/09 17:01</i>	<i>EPA 8270C</i>	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0905429
Project Mgr: Steven J. Albrecht
Account ID: B01058

FB-1
0905429-03 (Water)
9/29/09 18:20

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	
4,4'-DDE	<0.016	0.25	0.016	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	
4,4'-DDT	<0.020	0.25	0.020	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	
Aldrin	<0.018	0.25	0.018	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	
alpha-BHC	<0.021	0.25	0.021	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	go
alpha-Chlordane	<0.016	0.25	0.016	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	
beta-BHC	<0.016	0.25	0.016	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	
delta-BHC	<0.014	0.25	0.014	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	
Dieldrin	<0.024	0.25	0.024	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	
Endosulfan I	<0.021	0.25	0.021	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	
Endosulfan II	<0.019	0.25	0.019	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	
Endrin	<0.020	0.25	0.020	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	
Endrin Ketone	<0.019	0.25	0.019	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	
gamma-BHC	<0.020	0.25	0.020	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	go
gamma-Chlordane	<0.042	0.25	0.042	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	
Heptachlor	<0.018	0.25	0.018	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	
Methoxychlor	<0.026	0.25	0.026	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	
Toxaphene	<1.0	5.0	1.0	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:16	EPA 8081A	
<i>Surr: DBC</i>	<i>88.2 %</i>	<i>Limits: 40-130%</i>			<i>B9J0048</i>	<i>10/2/09 16:48</i>	<i>10/6/09 4:16</i>	<i>EPA 8081A</i>	
<i>Surr: TCMX</i>	<i>57.8 %</i>	<i>Limits: 40-120%</i>			<i>B9J0048</i>	<i>10/2/09 16:48</i>	<i>10/6/09 4:42</i>	<i>EPA 8081A</i>	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	
Alachlor	<0.19	0.50	0.19	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	
Atrazine	<0.24	0.50	0.24	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	
Cyanazine	<0.48	0.50	0.48	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	
Desethylatrazine	<0.29	0.50	0.29	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	
Dimethenamid	<0.24	0.50	0.24	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	
EPTC	<0.22	0.50	0.22	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	
Ethalfuralin	<0.47	0.50	0.47	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	
Fonofos	<0.30	0.50	0.30	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	
Metolachlor	<0.28	0.50	0.28	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	
Metribuzin	<0.35	0.50	0.35	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	
Pendimethalin	<0.25	0.50	0.25	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300 Client Contact: Ms. Kelly Neppel PO Number:	Work Order #: 0905429 Project Mgr: Steven J. Albrecht Account ID: B01058
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FB-1
0905429-03 (Water)
9/29/09 18:20

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Phorate	<0.58	1.0	0.58	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	qn
Prometon	<0.29	0.50	0.29	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	
Propachlor	<0.14	0.50	0.14	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	
Propazine	<0.21	0.50	0.21	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	
Simazine	<0.32	0.50	0.32	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	go, qn
Terbufos	<0.54	1.0	0.54	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	
Triallate	<0.34	0.50	0.34	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	
Trifluralin	<0.21	0.50	0.21	ug/L	B9J0033	10/2/09 8:54	10/5/09 23:40	EPA 8270C	
<i>Surr: Atrazine-d5</i>	<i>96.6 %</i>	<i>Limits: 50-120%</i>			<i>B9J0033</i>	<i>10/2/09 8:54</i>	<i>10/5/09 23:40</i>	<i>EPA 8270C</i>	
<i>Surr: Diazinon-d10</i>	<i>93.4 %</i>	<i>Limits: 50-120%</i>			<i>B9J0033</i>	<i>10/2/09 8:54</i>	<i>10/5/09 23:40</i>	<i>EPA 8270C</i>	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:26	EPA 8270C	gp
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:26	EPA 8270C	
2,4-D	<0.50	0.50	0.26	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:26	EPA 8270C	
2,4-D.B.	<0.50	0.50	0.15	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:26	EPA 8270C	
Bentazon	<0.50	0.50	0.22	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:26	EPA 8270C	
Dicamba	<0.50	0.50	0.38	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:26	EPA 8270C	
Dinoseb	<0.50	0.50	0.34	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:26	EPA 8270C	
M.C.P.A.	<0.30	0.30	0.29	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:26	EPA 8270C	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:26	EPA 8270C	
Picloram	<0.50	0.50	0.25	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:26	EPA 8270C	
Triclopyr	<0.50	0.50	0.41	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:26	EPA 8270C	
<i>Surr: D.C.A.A.</i>	<i>81.6 %</i>	<i>Limits: 65-130%</i>			<i>B9J0038</i>	<i>10/2/09 11:14</i>	<i>10/7/09 17:26</i>	<i>EPA 8270C</i>	

Barr Engineering Company
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Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0905429
Project Mgr: Steven J. Albrecht
Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9J0048 - EPA 3510C

Method Blank (B9J0048-BLK1)

Prepared: 10/02/09 Analyzed: 10/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Aldrin	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.014	0.25	0.014	ug/L	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.024	0.25	0.024	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endrin	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.042	0.25	0.042	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.026	0.25	0.026	ug/L	NA	NA	NA	NA	NA	NA	
Toxaphene	<1.0	5.0	1.0	ug/L	NA	NA	NA	NA	NA	NA	
<i>Surrogate: DBC</i>	<i>2.13</i>			<i>ug/L</i>	<i>2.50</i>	<i>NA</i>	<i>85.1</i>	<i>40-130</i>			
<i>Surrogate: TCMX</i>	<i>1.12</i>			<i>ug/L</i>	<i>2.50</i>	<i>NA</i>	<i>44.9</i>	<i>40-120</i>			

Laboratory Control Sample (B9J0048-BS1)

Prepared: 10/02/09 Analyzed: 10/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.17	0.25	0.016	ug/L	2.50	NA	86.9	80-120	NA	NA	
4,4'-DDE	2.04	0.25	0.016	ug/L	2.50	NA	81.6	80-120	NA	NA	
4,4'-DDT	2.28	0.25	0.020	ug/L	2.50	NA	91.2	80-120	NA	NA	
Aldrin	1.93	0.25	0.018	ug/L	2.50	NA	77.3	60-110	NA	NA	
alpha-BHC	2.01	0.25	0.021	ug/L	2.50	NA	80.5	70-120	NA	NA	
alpha-Chlordane	2.10	0.25	0.016	ug/L	2.50	NA	84.0	80-120	NA	NA	
beta-BHC	2.19	0.25	0.016	ug/L	2.50	NA	87.7	80-120	NA	NA	
Chlordane (tech)	< J	1.0		ug/L	NA	NA	NA	80-120	NA	NA	
delta-BHC	2.20	0.25	0.014	ug/L	2.50	NA	88.0	80-120	NA	NA	
Dieldrin	2.14	0.25	0.024	ug/L	2.50	NA	85.7	80-120	NA	NA	
Endosulfan I	2.13	0.25	0.021	ug/L	2.50	NA	85.4	80-120	NA	NA	
Endosulfan II	2.17	0.25	0.019	ug/L	2.50	NA	86.8	80-120	NA	NA	
Endosulfan Sulfate	2.23	0.25	0.019	ug/L	2.50	NA	89.1	80-120	NA	NA	
Endrin	2.20	0.25	0.020	ug/L	2.50	NA	88.1	80-120	NA	NA	
Endrin Aldehyde	2.23	0.25	0.040	ug/L	2.50	NA	89.0	80-120	NA	NA	
Endrin Ketone	2.29	0.25	0.019	ug/L	2.50	NA	91.5	80-120	NA	NA	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0905429
Project Mgr: Steven J. Albrecht
Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9J0048 - EPA 3510C

Laboratory Control Sample (B9J0048-BS1)

Prepared: 10/02/09 Analyzed: 10/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-BHC	2.12	0.25	0.020	ug/L	2.50	NA	84.7	80-120	NA	NA	
gamma-Chlordane	2.11	0.25	0.042	ug/L	2.50	NA	84.5	80-120	NA	NA	
Heptachlor	2.07	0.25	0.018	ug/L	2.50	NA	82.6	60-110	NA	NA	
Heptachlor Epoxide	2.16	0.25	0.038	ug/L	2.50	NA	86.4	80-120	NA	NA	
Methoxychlor	2.45	0.25	0.026	ug/L	2.50	NA	98.0	80-120	NA	NA	
Toxaphene	<1.0	5.0	1.0	ug/L	NA	NA	NA	80-120	NA	NA	
Surrogate: DBC	2.19			ug/L	2.50	NA	87.7	40-130			
Surrogate: TCMX	1.36			ug/L	2.50	NA	54.2	40-120			

Laboratory Control Sample Duplicate (B9J0048-BSD1)

Prepared: 10/02/09 Analyzed: 10/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.20	0.25	0.016	ug/L	2.50	NA	88.1	80-120	1.38	25	
4,4'-DDE	2.09	0.25	0.016	ug/L	2.50	NA	83.7	80-120	2.47	25	
4,4'-DDT	2.37	0.25	0.020	ug/L	2.50	NA	94.8	80-120	3.89	25	
Aldrin	1.71	0.25	0.018	ug/L	2.50	NA	68.6	60-110	12.0	25	
alpha-BHC	1.68	0.25	0.021	ug/L	2.50	NA	67.2	70-120	17.9	25	
alpha-Chlordane	2.08	0.25	0.016	ug/L	2.50	NA	83.0	80-120	1.14	25	
beta-BHC	2.15	0.25	0.016	ug/L	2.50	NA	85.9	80-120	2.00	25	
delta-BHC	2.18	0.25	0.014	ug/L	2.50	NA	87.1	80-120	1.01	25	
Dieldrin	2.10	0.25	0.024	ug/L	2.50	NA	84.0	80-120	2.04	25	
Endosulfan I	2.06	0.25	0.021	ug/L	2.50	NA	82.4	80-120	3.54	25	
Endosulfan II	2.17	0.25	0.019	ug/L	2.50	NA	86.7	80-120	0.149	25	
Endosulfan Sulfate	2.23	0.25	0.019	ug/L	2.50	NA	89.3	80-120	0.285	25	
Endrin	2.18	0.25	0.020	ug/L	2.50	NA	87.2	80-120	1.10	25	
Endrin Aldehyde	2.23	0.25	0.040	ug/L	2.50	NA	89.0	80-120	0.0234	25	
Endrin Ketone	2.28	0.25	0.019	ug/L	2.50	NA	91.3	80-120	0.210	25	
gamma-BHC	1.89	0.25	0.020	ug/L	2.50	NA	75.6	80-120	11.4	25	
gamma-Chlordane	2.06	0.25	0.042	ug/L	2.50	NA	82.5	80-120	2.36	25	
Heptachlor	1.83	0.25	0.018	ug/L	2.50	NA	73.2	60-110	12.1	25	
Heptachlor Epoxide	2.09	0.25	0.038	ug/L	2.50	NA	83.5	80-120	3.47	25	
Methoxychlor	2.50	0.25	0.026	ug/L	2.50	NA	100	80-120	1.98	25	
Surrogate: DBC	2.16			ug/L	2.50	NA	86.2	40-130			
Surrogate: TCMX	1.02			ug/L	2.50	NA	41.0	40-120			

Barr Engineering Company
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Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0905429
Project Mgr: Steven J. Albrecht
Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9J0048 - EPA 3510C

Matrix Spike (B9J0048-MS1)

Source: 0905429-01

Prepared: 10/02/09 Analyzed: 10/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.22	0.25	0.016	ug/L	2.53	ND	88.0	50-130	NA	NA	
4,4'-DDE	2.05	0.25	0.016	ug/L	2.53	ND	81.2	50-130	NA	NA	
4,4'-DDT	2.31	0.25	0.020	ug/L	2.53	ND	91.4	50-130	NA	NA	
Aldrin	2.01	0.25	0.018	ug/L	2.53	ND	79.5	50-130	NA	NA	
alpha-BHC	2.18	0.25	0.021	ug/L	2.53	ND	86.5	50-130	NA	NA	
alpha-Chlordane	2.12	0.25	0.016	ug/L	2.53	ND	84.0	50-130	NA	NA	
beta-BHC	2.35	0.25	0.016	ug/L	2.53	ND	93.1	50-130	NA	NA	
Chlordane (tech)	< J	1.0		ug/L	NA	0.00	NA	50-130	NA	NA	
delta-BHC	2.35	0.25	0.014	ug/L	2.53	ND	93.0	50-130	NA	NA	
Dieldrin	2.23	0.25	0.024	ug/L	2.53	ND	88.5	50-130	NA	NA	
Endosulfan I	2.23	0.25	0.021	ug/L	2.53	ND	88.5	50-130	NA	NA	
Endosulfan II	2.28	0.25	0.019	ug/L	2.53	ND	90.2	50-130	NA	NA	
Endosulfan Sulfate	2.37	0.25	0.019	ug/L	2.53	ND	93.9	50-130	NA	NA	
Endrin	2.33	0.25	0.020	ug/L	2.53	ND	92.4	50-130	NA	NA	
Endrin Aldehyde	2.37	0.25	0.040	ug/L	2.53	ND	93.8	50-130	NA	NA	
Endrin Ketone	2.45	0.25	0.019	ug/L	2.53	ND	96.9	50-130	NA	NA	
gamma-BHC	2.27	0.25	0.020	ug/L	2.53	ND	89.7	50-130	NA	NA	
gamma-Chlordane	2.14	0.25	0.042	ug/L	2.53	ND	84.8	50-130	NA	NA	
Heptachlor	2.17	0.25	0.018	ug/L	2.53	ND	85.9	50-130	NA	NA	
Heptachlor Epoxide	2.28	0.25	0.038	ug/L	2.53	ND	90.1	50-130	NA	NA	
Methoxychlor	2.54	0.25	0.026	ug/L	2.53	ND	101	50-130	NA	NA	
Toxaphene	<1.0	5.0	1.0	ug/L	NA	ND	NA	50-130	NA	NA	
Surrogate: DBC	1.88			ug/L	2.53	NA	74.4	40-130			
Surrogate: TCMX	1.50			ug/L	2.53	NA	59.5	40-120			

Matrix Spike Duplicate (B9J0048-MSD1)

Source: 0905429-01

Prepared: 10/02/09 Analyzed: 10/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.40	0.25	0.016	ug/L	2.53	ND	95.1	50-130	7.72	25	
4,4'-DDE	2.27	0.25	0.016	ug/L	2.53	ND	89.9	50-130	10.2	25	
4,4'-DDT	2.43	0.25	0.020	ug/L	2.53	ND	96.2	50-130	5.21	25	
Aldrin	2.20	0.25	0.018	ug/L	2.53	ND	87.2	50-130	9.26	25	
alpha-BHC	2.35	0.25	0.021	ug/L	2.53	ND	92.9	50-130	7.12	25	
alpha-Chlordane	2.32	0.25	0.016	ug/L	2.53	ND	91.8	50-130	8.81	25	
beta-BHC	2.47	0.25	0.016	ug/L	2.53	ND	97.9	50-130	5.06	25	
delta-BHC	2.45	0.25	0.014	ug/L	2.53	ND	97.2	50-130	4.36	25	
Dieldrin	2.39	0.25	0.024	ug/L	2.53	ND	94.8	50-130	6.86	25	
Endosulfan I	2.37	0.25	0.021	ug/L	2.53	ND	93.8	50-130	5.82	25	
Endosulfan II	2.42	0.25	0.019	ug/L	2.53	ND	95.8	50-130	6.05	25	
Endosulfan Sulfate	2.46	0.25	0.019	ug/L	2.53	ND	97.6	50-130	3.88	25	
Endrin	2.46	0.25	0.020	ug/L	2.53	ND	97.3	50-130	5.21	25	
Endrin Aldehyde	2.55	0.25	0.040	ug/L	2.53	ND	101	50-130	7.32	25	
Endrin Ketone	2.50	0.25	0.019	ug/L	2.53	ND	99.0	50-130	2.10	25	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300 Client Contact: Ms. Kelly Neppl PO Number:	Work Order #: 0905429 Project Mgr: Steven J. Albrecht Account ID: B01058
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Organochlorine Pesticides - Quality Control

Batch B9J0048 - EPA 3510C

Matrix Spike Duplicate (B9J0048-MSD1)				Source: 0905429-01			Prepared: 10/02/09		Analyzed: 10/06/09			
Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
gamma-BHC	2.41	0.25	0.020	ug/L	2.53	ND	95.6	50-130	6.37	25		
gamma-Chlordane	2.30	0.25	0.042	ug/L	2.53	ND	90.9	50-130	6.96	25		
Heptachlor	2.34	0.25	0.018	ug/L	2.53	ND	92.6	50-130	7.56	25		
Heptachlor Epoxide	2.44	0.25	0.038	ug/L	2.53	ND	96.5	50-130	6.82	25		
Methoxychlor	2.65	0.25	0.026	ug/L	2.53	ND	105	50-130	4.23	25		
Surrogate: DBC	1.99			ug/L	2.53	NA	78.7	40-130				
Surrogate: TCMX	1.62			ug/L	2.53	NA	64.0	40-120				

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Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
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PO Number:

Work Order #: 0905429
Project Mgr: Steven J. Albrecht
Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9J0033 - EPA 3510C

Method Blank (B9J0033-BLK1)

Prepared: 10/02/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Alachlor	<0.19	0.50	0.19	ug/L	NA	NA	NA	NA	NA	NA	
Atrazine	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.48	0.50	0.48	ug/L	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
EPTC	<0.22	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Ethalfuralin	<0.47	0.50	0.47	ug/L	NA	NA	NA	NA	NA	NA	
Fonofos	<0.30	0.50	0.30	ug/L	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.28	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.35	0.50	0.35	ug/L	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Phorate	<0.58	1.0	0.58	ug/L	NA	NA	NA	NA	NA	NA	
Prometon	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Propachlor	<0.14	0.50	0.14	ug/L	NA	NA	NA	NA	NA	NA	
Propazine	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Simazine	<0.32	0.50	0.32	ug/L	NA	NA	NA	NA	NA	NA	
Terbufos	<0.54	1.0	0.54	ug/L	NA	NA	NA	NA	NA	NA	
Triallate	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	10.9			ug/L	10.0	NA	109	50-120			
Surrogate: Diazinon-d10	10.6			ug/L	10.0	NA	106	50-120			

Laboratory Control Sample (B9J0033-BS1)

Prepared: 10/02/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.6	0.50	0.25	ug/L	10.0	NA	106	65-115	NA	NA	
Alachlor	10.7	0.50	0.19	ug/L	10.0	NA	107	65-115	NA	NA	
Atrazine	10.6	0.50	0.24	ug/L	10.0	NA	106	65-115	NA	NA	
Chlorpyrifos	9.72	0.50	0.34	ug/L	10.0	NA	97.2	65-115	NA	NA	
Cyanazine	9.77	0.50	0.48	ug/L	10.0	NA	97.7	65-115	NA	NA	
Deisopropylatrazine	9.09	0.50	0.26	ug/L	10.0	NA	90.9	65-115	NA	NA	
Desethylatrazine	11.2	0.50	0.29	ug/L	10.0	NA	112	65-115	NA	NA	
Dimethenamid	10.0	0.50	0.24	ug/L	10.0	NA	100	65-115	NA	NA	
EPTC	8.50	0.50	0.22	ug/L	10.0	NA	85.0	50-110	NA	NA	
Ethalfuralin	8.60	0.50	0.47	ug/L	10.0	NA	86.0	65-115	NA	NA	
Fonofos	9.96	0.50	0.30	ug/L	10.0	NA	99.6	55-115	NA	NA	
Metolachlor	10.5	0.50	0.28	ug/L	10.0	NA	105	70-120	NA	NA	
Metribuzin	9.64	0.50	0.35	ug/L	10.0	NA	96.4	70-120	NA	NA	
Pendimethalin	9.65	0.50	0.25	ug/L	10.0	NA	96.5	65-115	NA	NA	
Phorate	9.00	1.0	0.58	ug/L	10.0	NA	90.0	30-100	NA	NA	

Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905429
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9J0033 - EPA 3510C

Laboratory Control Sample (B9J0033-BS1)

Prepared: 10/02/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	10.5	0.50	0.29	ug/L	10.0	NA	105	70-120	NA	NA	
Propachlor	9.55	0.50	0.14	ug/L	10.0	NA	95.5	65-115	NA	NA	
Propazine	10.2	0.50	0.21	ug/L	10.0	NA	102	65-115	NA	NA	
Simazine	12.3	0.50	0.32	ug/L	10.0	NA	123	65-115	NA	NA	
Terbufos	8.78	1.0	0.54	ug/L	10.0	NA	87.8	30-100	NA	NA	
Triallate	9.40	0.50	0.34	ug/L	10.0	NA	94.0	65-115	NA	NA	
Trifluralin	8.39	0.50	0.21	ug/L	10.0	NA	83.9	65-115	NA	NA	
<i>Surrogate: Atrazine-d5</i>	<i>10.8</i>			ug/L	<i>10.0</i>	<i>NA</i>	<i>108</i>	<i>50-120</i>			
<i>Surrogate: Diazinon-d10</i>	<i>9.58</i>			ug/L	<i>10.0</i>	<i>NA</i>	<i>95.8</i>	<i>50-120</i>			

Laboratory Control Sample Duplicate (B9J0033-BSD1)

Prepared: 10/02/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	9.73	0.50	0.25	ug/L	10.0	NA	97.3	65-115	8.09	25	
Alachlor	10.2	0.50	0.19	ug/L	10.0	NA	102	65-115	4.11	25	
Atrazine	10.3	0.50	0.24	ug/L	10.0	NA	103	65-115	3.06	25	
Chlorpyrifos	9.37	0.50	0.34	ug/L	10.0	NA	93.7	65-115	3.67	25	
Cyanazine	9.48	0.50	0.48	ug/L	10.0	NA	94.8	65-115	3.01	25	
Deisopropylatrazine	8.62	0.50	0.26	ug/L	10.0	NA	86.2	65-115	5.31	25	
Desethylatrazine	10.4	0.50	0.29	ug/L	10.0	NA	104	65-115	7.52	25	
Dimethenamid	9.65	0.50	0.24	ug/L	10.0	NA	96.5	65-115	3.76	25	
EPTC	8.73	0.50	0.22	ug/L	10.0	NA	87.3	50-110	2.67	30	
Ethalfuralin	8.89	0.50	0.47	ug/L	10.0	NA	88.9	65-115	3.32	30	
Fonofos	9.90	0.50	0.30	ug/L	10.0	NA	99.0	55-115	0.604	30	
Metolachlor	10.0	0.50	0.28	ug/L	10.0	NA	100	70-120	4.28	25	
Metribuzin	9.22	0.50	0.35	ug/L	10.0	NA	92.2	70-120	4.45	25	
Pendimethalin	9.32	0.50	0.25	ug/L	10.0	NA	93.2	65-115	3.48	25	
Phorate	9.38	1.0	0.58	ug/L	10.0	NA	93.8	30-100	4.13	30	
Prometon	10.3	0.50	0.29	ug/L	10.0	NA	103	70-120	1.92	30	
Propachlor	9.43	0.50	0.14	ug/L	10.0	NA	94.3	65-115	1.26	30	
Propazine	10.3	0.50	0.21	ug/L	10.0	NA	103	65-115	1.17	25	
Simazine	12.3	0.50	0.32	ug/L	10.0	NA	123	65-115	0.244	25	
Terbufos	8.70	1.0	0.54	ug/L	10.0	NA	87.0	30-100	0.915	30	
Triallate	9.05	0.50	0.34	ug/L	10.0	NA	90.5	65-115	3.79	25	
Trifluralin	7.95	0.50	0.21	ug/L	10.0	NA	79.5	65-115	5.39	25	
<i>Surrogate: Atrazine-d5</i>	<i>10.2</i>			ug/L	<i>10.0</i>	<i>NA</i>	<i>102</i>	<i>50-120</i>			
<i>Surrogate: Diazinon-d10</i>	<i>9.50</i>			ug/L	<i>10.0</i>	<i>NA</i>	<i>95.0</i>	<i>50-120</i>			

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Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9J0033 - EPA 3510C

Matrix Spike (B9J0033-MS1)

Source: 0905428-02

Prepared: 10/02/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.2	0.50	0.25	ug/L	10.1	ND	100	65-115	NA	NA	
Alachlor	10.8	0.50	0.19	ug/L	10.1	ND	107	65-115	NA	NA	
Atrazine	10.6	0.50	0.24	ug/L	10.1	ND	105	65-115	NA	NA	
Chlorpyrifos	9.61	0.50	0.34	ug/L	10.1	ND	95.1	60-115	NA	NA	
Cyanazine	9.60	0.50	0.48	ug/L	10.1	ND	95.0	65-120	NA	NA	
Deisopropylatrazine	8.27	0.50	0.26	ug/L	10.1	ND	81.9	65-115	NA	NA	
Desethylatrazine	10.5	0.50	0.29	ug/L	10.1	ND	104	65-115	NA	NA	
Dimethenamid	10.1	0.50	0.24	ug/L	10.1	ND	99.6	65-120	NA	NA	
EPTC	10.3	0.50	0.22	ug/L	10.1	ND	101	50-110	NA	NA	
Ethalfuralin	8.40	0.50	0.47	ug/L	10.1	ND	83.2	65-115	NA	NA	
Fonofos	10.3	0.50	0.30	ug/L	10.1	ND	102	55-115	NA	NA	
Metolachlor	10.4	0.50	0.28	ug/L	10.1	ND	103	65-120	NA	NA	
Metribuzin	9.98	0.50	0.35	ug/L	10.1	ND	98.8	65-120	NA	NA	
Pendimethalin	9.65	0.50	0.25	ug/L	10.1	ND	95.5	60-115	NA	NA	
Phorate	10.0	1.0	0.58	ug/L	10.1	ND	99.2	30-100	NA	NA	
Prometon	10.2	0.50	0.29	ug/L	10.1	ND	101	70-120	NA	NA	
Propachlor	10.1	0.50	0.14	ug/L	10.1	ND	100	65-115	NA	NA	
Propazine	9.87	0.50	0.21	ug/L	10.1	ND	97.7	65-115	NA	NA	
Simazine	11.3	0.50	0.32	ug/L	10.1	ND	112	60-115	NA	NA	
Terbufos	9.71	1.0	0.54	ug/L	10.1	ND	96.1	30-100	NA	NA	
Triallate	9.57	0.50	0.34	ug/L	10.1	ND	94.7	60-115	NA	NA	
Trifluralin	8.12	0.50	0.21	ug/L	10.1	ND	80.4	65-115	NA	NA	
Surrogate: Atrazine-d5	10.3			ug/L	10.1	NA	102	50-120			
Surrogate: Diazinon-d10	10.3			ug/L	10.1	NA	102	50-120			

Matrix Spike Duplicate (B9J0033-MSD1)

Source: 0905428-02

Prepared: 10/02/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.6	0.50	0.25	ug/L	10.1	ND	105	65-115	4.28	30	
Alachlor	10.9	0.50	0.19	ug/L	10.1	ND	108	65-115	1.02	30	
Atrazine	10.6	0.50	0.24	ug/L	10.1	ND	105	65-115	0.572	30	
Chlorpyrifos	9.68	0.50	0.34	ug/L	10.1	ND	95.8	60-115	0.733	30	
Cyanazine	9.04	0.50	0.48	ug/L	10.1	ND	89.5	65-120	5.96	30	
Deisopropylatrazine	8.47	0.50	0.26	ug/L	10.1	ND	83.9	65-115	2.41	30	
Desethylatrazine	10.7	0.50	0.29	ug/L	10.1	ND	106	65-115	1.24	30	
Dimethenamid	10.5	0.50	0.24	ug/L	10.1	ND	104	65-120	4.71	30	
EPTC	9.57	0.50	0.22	ug/L	10.1	ND	94.7	50-110	6.93	30	
Ethalfuralin	9.91	0.50	0.47	ug/L	10.1	ND	98.1	65-115	16.4	30	
Fonofos	10.5	0.50	0.30	ug/L	10.1	ND	104	55-115	2.14	30	
Metolachlor	10.7	0.50	0.28	ug/L	10.1	ND	106	65-120	2.49	30	
Metribuzin	9.60	0.50	0.35	ug/L	10.1	ND	95.0	65-120	3.92	30	
Pendimethalin	9.56	0.50	0.25	ug/L	10.1	ND	94.6	60-115	0.947	30	
Phorate	10.2	1.0	0.58	ug/L	10.1	ND	101	30-100	1.50	30	



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Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905429
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9J0033 - EPA 3510C

Matrix Spike Duplicate (B9J0033-MSD1)				Source: 0905428-02			Prepared: 10/02/09		Analyzed: 10/05/09			
Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Prometon	10.6	0.50	0.29	ug/L	10.1	ND	105	70-120	3.88	30		
Propachlor	10.4	0.50	0.14	ug/L	10.1	ND	103	65-115	2.26	30		
Propazine	10.5	0.50	0.21	ug/L	10.1	ND	104	65-115	6.53	30		
Simazine	12.4	0.50	0.32	ug/L	10.1	ND	123	60-115	9.09	30		
Terbufos	9.58	1.0	0.54	ug/L	10.1	ND	94.8	30-100	1.36	30		
Triallate	9.90	0.50	0.34	ug/L	10.1	ND	98.0	60-115	3.43	30		
Trifluralin	8.53	0.50	0.21	ug/L	10.1	ND	84.4	65-115	4.85	30		
<i>Surrogate: Atrazine-d5</i>	<i>10.5</i>			<i>ug/L</i>	<i>10.1</i>	<i>NA</i>	<i>104</i>	<i>50-120</i>				
<i>Surrogate: Diazinon-d10</i>	<i>10.2</i>			<i>ug/L</i>	<i>10.1</i>	<i>NA</i>	<i>101</i>	<i>50-120</i>				

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0905429
Project Mgr: Steven J. Albrecht
Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9J0038 - EPA 3510C

Method Blank (B9J0038-BLK1)

Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D	<0.50	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.50	0.50	0.15	ug/L	NA	NA	NA	NA	NA	NA	
Bentazon	<0.50	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Dicamba	<0.50	0.50	0.38	ug/L	NA	NA	NA	NA	NA	NA	
Dinoseb	<0.50	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.30	0.30	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	NA	NA	NA	NA	NA	NA	
Picloram	<0.50	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.50	0.50	0.41	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	3.36			ug/L	5.00	NA	67.2	65-130			

Laboratory Control Sample (B9J0038-BS1)

Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	3.65	0.50	0.31	ug/L	5.00	NA	73.0	70-130	NA	NA	
2,4,5-T.P.	3.66	0.50	0.28	ug/L	5.00	NA	73.2	70-130	NA	NA	
2,4-D	3.59	0.50	0.26	ug/L	5.00	NA	71.8	70-130	NA	NA	
2,4-D.B.	4.00	0.50	0.15	ug/L	5.00	NA	80.0	75-140	NA	NA	
Bentazon	3.85	0.50	0.22	ug/L	5.00	NA	77.0	75-135	NA	NA	
Dicamba	3.83	0.50	0.38	ug/L	5.00	NA	76.6	65-130	NA	NA	
Dinoseb	2.69	0.50	0.34	ug/L	5.00	NA	53.8	40-125	NA	NA	
M.C.P.A.	3.87	0.30	0.29	ug/L	5.00	NA	77.4	70-130	NA	NA	
Pentachlorophenol	4.05	0.50	0.39	ug/L	5.00	NA	81.0	70-120	NA	NA	
Picloram	3.30	0.50	0.25	ug/L	5.00	NA	66.0	60-125	NA	NA	
Triclopyr	4.22	0.50	0.41	ug/L	5.00	NA	84.4	75-125	NA	NA	
Surrogate: D.C.A.A.	3.96			ug/L	5.00	NA	79.2	65-130			

Laboratory Control Sample Duplicate (B9J0038-BSD1)

Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.54	0.50	0.31	ug/L	5.00	NA	90.8	70-130	21.7	20	
2,4,5-T.P.	4.14	0.50	0.28	ug/L	5.00	NA	82.8	70-130	12.3	20	
2,4-D	3.91	0.50	0.26	ug/L	5.00	NA	78.2	70-130	8.53	20	
2,4-D.B.	4.45	0.50	0.15	ug/L	5.00	NA	89.0	75-140	10.7	20	
Bentazon	4.18	0.50	0.22	ug/L	5.00	NA	83.6	75-135	8.22	20	
Dicamba	4.02	0.50	0.38	ug/L	5.00	NA	80.4	65-130	4.84	20	
Dinoseb	2.76	0.50	0.34	ug/L	5.00	NA	55.2	40-125	2.57	20	
M.C.P.A.	4.27	0.30	0.29	ug/L	5.00	NA	85.4	70-130	9.83	20	
Pentachlorophenol	3.67	0.50	0.39	ug/L	5.00	NA	73.4	70-120	9.84	20	
Picloram	3.64	0.50	0.25	ug/L	5.00	NA	72.8	60-125	9.80	20	
Triclopyr	4.34	0.50	0.41	ug/L	5.00	NA	86.8	75-125	2.80	20	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300 Client Contact: Ms. Kelly Neppel PO Number:	Work Order #: 0905429 Project Mgr: Steven J. Albrecht Account ID: B01058
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Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9J0038 - EPA 3510C

Laboratory Control Sample Duplicate (B9J0038-BSD1)

Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	4.22			ug/L	5.00	NA	84.4	65-130			

Matrix Spike (B9J0038-MS1)

Source: 0905466-01

Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	3.98	0.50	0.31	ug/L	5.05	ND	78.8	70-140	NA	NA	
2,4,5-T.P.	4.22	0.50	0.28	ug/L	5.05	ND	83.6	70-135	NA	NA	
2,4-D	4.03	0.50	0.26	ug/L	5.05	ND	79.8	70-140	NA	NA	
2,4-D.B.	4.59	0.50	0.15	ug/L	5.05	ND	90.8	75-140	NA	NA	
Bentazon	4.08	0.50	0.22	ug/L	5.05	ND	80.8	70-140	NA	NA	
Dicamba	3.88	0.50	0.38	ug/L	5.05	ND	76.8	65-140	NA	NA	
Dinoseb	3.15	0.50	0.34	ug/L	5.05	ND	62.4	40-130	NA	NA	
M.C.P.A.	3.99	0.30	0.29	ug/L	5.05	ND	79.0	60-140	NA	NA	
Pentachlorophenol	3.74	0.50	0.39	ug/L	5.05	ND	74.0	70-125	NA	NA	
Picloram	3.39	0.50	0.25	ug/L	5.05	ND	67.2	45-140	NA	NA	
Triclopyr	4.35	0.50	0.41	ug/L	5.05	ND	86.2	75-125	NA	NA	
Surrogate: D.C.A.A.	4.35			ug/L	5.05	NA	86.2	65-130			

Matrix Spike Duplicate (B9J0038-MSD1)

Source: 0905466-01

Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.59	0.50	0.31	ug/L	5.05	ND	90.8	70-140	14.2	25	
2,4,5-T.P.	4.44	0.50	0.28	ug/L	5.05	ND	88.0	70-135	5.13	25	
2,4-D	4.38	0.50	0.26	ug/L	5.05	ND	86.8	70-140	8.40	25	
2,4-D.B.	4.84	0.50	0.15	ug/L	5.05	ND	95.8	75-140	5.36	25	
Bentazon	4.32	0.50	0.22	ug/L	5.05	ND	85.6	70-140	5.77	25	
Dicamba	4.19	0.50	0.38	ug/L	5.05	ND	83.0	65-140	7.76	25	
Dinoseb	3.27	0.50	0.34	ug/L	5.05	ND	64.8	40-130	3.77	25	
M.C.P.A.	3.96	0.30	0.29	ug/L	5.05	ND	78.4	60-140	0.762	25	
Pentachlorophenol	3.74	0.50	0.39	ug/L	5.05	ND	74.0	70-125	0.00	25	
Picloram	3.42	0.50	0.25	ug/L	5.05	ND	67.8	45-140	0.889	25	
Triclopyr	4.28	0.50	0.41	ug/L	5.05	ND	84.8	75-125	1.64	25	
Surrogate: D.C.A.A.	4.62			ug/L	5.05	NA	91.4	65-130			

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300 Client Contact: Ms. Kelly Neppel PO Number:	Work Order #: 0905429 Project Mgr: Steven J. Albrecht Account ID: B01058
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0905429

Chain of Custody
BARR 4700 West 77th Street
 Minneapolis, MN 55435-4803
 (952) 832-2600

Project Number: 23/19-0.B05.50C.325
 Project Name: No 28041

Sample Identification	Collection		Matrix		Type	Number of Containers/Preservative														Total No. Of Containers	COC ____ of ____						
	Date	Time	Water	Soil	Grab	Comp.	OC	Water							Soil												
								Volatile Organics (Pres.)*1	Semivolatile Organics #2	Dissolved Metals (HNO ₃)	Total Metals (HNO ₃)	General (Unpreserved) #3	Cyanide (NaOH)	Nutrients (H ₂ SO ₄) #4	Oil and Grease (H ₂ SO ₄)	Sulfide (Zn Acetate)	Methane	Bacteria (Na ₂ S ₂ O ₃)	DRO (HCl)			VOCs (2-oz tared MeOH)*1	GRO, BTEX (2-oz tared MeOH)*1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) #2	% Moisture (plastic vial, unpres.)
1. MW-93-007	9/29/09	1530	✓		✓			6																	6	Remarks: TABLE 1 As list 1-2, OC Post.	
2. MW-E2-305	↓	1735	✓		✓			6																	6		↓
3. FB-1	↓	1820	✓			✓		6																	6		↓
4.																											
5.																											
6.																											
7.																											
8.																											
9.																											
10.																											
11.																											
12.																											

Relinquished By: J. Neppel On Ice? Date: 9/30/09 Time: _____
 Received by: John Date: 9/30/09 Time: 0920

Relinquished By: _____ On Ice? Date: _____ Time: _____
 Received by: _____ Date: _____ Time: _____

Samples Shipped Via: Air Freight Federal Express Other _____
 Air Bill Number: _____

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

BRAUN **INTERTEC**

Braun Intertec Corporation
11001 Hampshire Avenue S.
Minneapolis, MN 55438

Phone: 952.995.2000
Fax: 952.995.2020
Web: braunintertec.com

Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

October 19, 2009

Work Order #: 0905465

RE: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on September 30, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,



Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117

Wisconsin DNR: 999462640

Providing engineering and environmental solutions since 1957

Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905465
4700 West 77th Street	Client Contact: Ms. Kelly Neppel	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0905465
Project Mgr: Steven J. Albrecht
Account ID: B01058

Qualifiers and Abbreviations

qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
gp	The relative percent difference (RPD) for the laboratory control sample and laboratory control sample duplicate is outside of laboratory control limits.
go	The laboratory control sample recovery is outside of laboratory control limits.
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0905465
Project Mgr: Steven J. Albrecht
Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-E2-009	0905465-01	Water	09/30/09 13:05	09/30/09 15:50

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Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
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PO Number:

Work Order #: 0905465
Project Mgr: Steven J. Albrecht
Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler 1

Temperature: 2.0 °C	COC Included: Yes	Custody Seals Used: No
Temperature Blank: Yes	COC Complete: Yes	Custody Seals Intact: NA
Received on Ice: Yes	COC & Labels Agree: Yes	Hand Delivered by Client: Yes
Preservation Confirmed: No	Sufficient Sample Provided: Yes	Headspace Present (VOC): No

Cooler: Cooler 2

Temperature: 3.4 °C	COC Included: Yes	Custody Seals Used: No
Temperature Blank: Yes	COC Complete: Yes	Custody Seals Intact: NA
Received on Ice: Yes	COC & Labels Agree: Yes	Hand Delivered by Client: Yes
Preservation Confirmed: No	Sufficient Sample Provided: Yes	Headspace Present (VOC): No

Cooler: Cooler 3

Temperature: 3.0 °C	COC Included: Yes	Custody Seals Used: No
Temperature Blank: Yes	COC Complete: Yes	Custody Seals Intact: NA
Received on Ice: Yes	COC & Labels Agree: Yes	Hand Delivered by Client: Yes
Preservation Confirmed: No	Sufficient Sample Provided: Yes	Headspace Present (VOC): No

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Work Order #: 0905465
Project Mgr: Steven J. Albrecht
Account ID: B01058

MW-E2-009
0905465-01 (Water)
9/30/09 13:05

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	B9J0048	10/2/09 16:48	10/6/09 5:08	EPA 8081A	
4,4'-DDE	<0.016	0.25	0.016	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	
4,4'-DDT	<0.020	0.25	0.020	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	
Aldrin	<0.018	0.25	0.018	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	
alpha-BHC	<0.021	0.25	0.021	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	go
alpha-Chlordane	<0.016	0.25	0.016	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	
beta-BHC	<0.016	0.25	0.016	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	
delta-BHC	<0.014	0.25	0.014	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	
Dieldrin	<0.024	0.25	0.024	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	
Endosulfan I	<0.021	0.25	0.021	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	
Endosulfan II	<0.019	0.25	0.019	ug/L	B9J0048	10/2/09 16:48	10/6/09 5:08	EPA 8081A	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	
Endrin	<0.020	0.25	0.020	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	
Endrin Ketone	<0.019	0.25	0.019	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	
gamma-BHC	<0.020	0.25	0.020	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	go
gamma-Chlordane	<0.042	0.25	0.042	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	
Heptachlor	<0.018	0.25	0.018	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	
Methoxychlor	<0.026	0.25	0.026	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	
Toxaphene	<1.0	5.0	1.0	ug/L	B9J0048	10/2/09 16:48	10/6/09 4:42	EPA 8081A	
<i>Surr: DBC</i>	<i>90.2 %</i>	<i>Limits: 40-130%</i>			<i>B9J0048</i>	<i>10/2/09 16:48</i>	<i>10/6/09 4:42</i>	<i>EPA 8081A</i>	
<i>Surr: TCMX</i>	<i>54.1 %</i>	<i>Limits: 40-120%</i>			<i>B9J0048</i>	<i>10/2/09 16:48</i>	<i>10/6/09 4:42</i>	<i>EPA 8081A</i>	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	
Alachlor	<0.19	0.50	0.19	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	
Atrazine	<0.24	0.50	0.24	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	
Cyanazine	<0.48	0.50	0.48	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	
Desethylatrazine	<0.29	0.50	0.29	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	
Dimethenamid	<0.24	0.50	0.24	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	
EPTC	<0.22	0.50	0.22	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	
Ethalfuralin	<0.47	0.50	0.47	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	
Fonofos	<0.30	0.50	0.30	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	
Metolachlor	<0.28	0.50	0.28	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	
Metribuzin	<0.35	0.50	0.35	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	
Pendimethalin	<0.25	0.50	0.25	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	

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Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0905465
Project Mgr: Steven J. Albrecht
Account ID: B01058

MW-E2-009
0905465-01 (Water)
9/30/09 13:05

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Phorate	<0.58	1.0	0.58	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	qn
Prometon	<0.29	0.50	0.29	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	
Propachlor	<0.14	0.50	0.14	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	
Propazine	<0.21	0.50	0.21	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	
Simazine	<0.32	0.50	0.32	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	go, qn
Terbufos	<0.54	1.0	0.54	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	
Triallate	<0.34	0.50	0.34	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	
Trifluralin	<0.21	0.50	0.21	ug/L	B9J0033	10/2/09 8:54	10/6/09 0:06	EPA 8270C	
<i>Surr: Atrazine-d5</i>	<i>103 %</i>	<i>Limits: 50-120%</i>			<i>B9J0033</i>	<i>10/2/09 8:54</i>	<i>10/6/09 0:06</i>	<i>EPA 8270C</i>	
<i>Surr: Diazinon-d10</i>	<i>98.0 %</i>	<i>Limits: 50-120%</i>			<i>B9J0033</i>	<i>10/2/09 8:54</i>	<i>10/6/09 0:06</i>	<i>EPA 8270C</i>	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:51	EPA 8270C	gp
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:51	EPA 8270C	
2,4-D	<0.50	0.50	0.26	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:51	EPA 8270C	
2,4-D.B.	<0.50	0.50	0.15	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:51	EPA 8270C	
Bentazon	<0.50	0.50	0.22	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:51	EPA 8270C	
Dicamba	<0.50	0.50	0.38	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:51	EPA 8270C	
Dinoseb	<0.50	0.50	0.34	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:51	EPA 8270C	
M.C.P.A.	<0.30	0.30	0.29	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:51	EPA 8270C	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:51	EPA 8270C	
Picloram	<0.50	0.50	0.25	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:51	EPA 8270C	
Triclopyr	<0.50	0.50	0.41	ug/L	B9J0038	10/2/09 11:14	10/7/09 17:51	EPA 8270C	
<i>Surr: D.C.A.A.</i>	<i>90.2 %</i>	<i>Limits: 65-130%</i>			<i>B9J0038</i>	<i>10/2/09 11:14</i>	<i>10/7/09 17:51</i>	<i>EPA 8270C</i>	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0905465
Project Mgr: Steven J. Albrecht
Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9J0048 - EPA 3510C

Method Blank (B9J0048-BLK1)

Prepared: 10/02/09 Analyzed: 10/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Aldrin	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.014	0.25	0.014	ug/L	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.024	0.25	0.024	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endrin	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.042	0.25	0.042	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.026	0.25	0.026	ug/L	NA	NA	NA	NA	NA	NA	
Toxaphene	<1.0	5.0	1.0	ug/L	NA	NA	NA	NA	NA	NA	
<i>Surrogate: DBC</i>	2.13			ug/L	2.50	NA	85.1	40-130			
<i>Surrogate: TCMX</i>	1.12			ug/L	2.50	NA	44.9	40-120			

Laboratory Control Sample (B9J0048-BS1)

Prepared: 10/02/09 Analyzed: 10/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.17	0.25	0.016	ug/L	2.50	NA	86.9	80-120	NA	NA	
4,4'-DDE	2.04	0.25	0.016	ug/L	2.50	NA	81.6	80-120	NA	NA	
4,4'-DDT	2.28	0.25	0.020	ug/L	2.50	NA	91.2	80-120	NA	NA	
Aldrin	1.93	0.25	0.018	ug/L	2.50	NA	77.3	60-110	NA	NA	
alpha-BHC	2.01	0.25	0.021	ug/L	2.50	NA	80.5	70-120	NA	NA	
alpha-Chlordane	2.10	0.25	0.016	ug/L	2.50	NA	84.0	80-120	NA	NA	
beta-BHC	2.19	0.25	0.016	ug/L	2.50	NA	87.7	80-120	NA	NA	
Chlordane (tech)	< J	1.0		ug/L	NA	NA	NA	80-120	NA	NA	
delta-BHC	2.20	0.25	0.014	ug/L	2.50	NA	88.0	80-120	NA	NA	
Dieldrin	2.14	0.25	0.024	ug/L	2.50	NA	85.7	80-120	NA	NA	
Endosulfan I	2.13	0.25	0.021	ug/L	2.50	NA	85.4	80-120	NA	NA	
Endosulfan II	2.17	0.25	0.019	ug/L	2.50	NA	86.8	80-120	NA	NA	
Endosulfan Sulfate	2.23	0.25	0.019	ug/L	2.50	NA	89.1	80-120	NA	NA	
Endrin	2.20	0.25	0.020	ug/L	2.50	NA	88.1	80-120	NA	NA	
Endrin Aldehyde	2.23	0.25	0.040	ug/L	2.50	NA	89.0	80-120	NA	NA	
Endrin Ketone	2.29	0.25	0.019	ug/L	2.50	NA	91.5	80-120	NA	NA	

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Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0905465
Project Mgr: Steven J. Albrecht
Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9J0048 - EPA 3510C

Laboratory Control Sample (B9J0048-BS1)

Prepared: 10/02/09 Analyzed: 10/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-BHC	2.12	0.25	0.020	ug/L	2.50	NA	84.7	80-120	NA	NA	
gamma-Chlordane	2.11	0.25	0.042	ug/L	2.50	NA	84.5	80-120	NA	NA	
Heptachlor	2.07	0.25	0.018	ug/L	2.50	NA	82.6	60-110	NA	NA	
Heptachlor Epoxide	2.16	0.25	0.038	ug/L	2.50	NA	86.4	80-120	NA	NA	
Methoxychlor	2.45	0.25	0.026	ug/L	2.50	NA	98.0	80-120	NA	NA	
Toxaphene	<1.0	5.0	1.0	ug/L	NA	NA	NA	80-120	NA	NA	
Surrogate: DBC	2.19			ug/L	2.50	NA	87.7	40-130			
Surrogate: TCMX	1.36			ug/L	2.50	NA	54.2	40-120			

Laboratory Control Sample Duplicate (B9J0048-BSD1)

Prepared: 10/02/09 Analyzed: 10/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.20	0.25	0.016	ug/L	2.50	NA	88.1	80-120	1.38	25	
4,4'-DDE	2.09	0.25	0.016	ug/L	2.50	NA	83.7	80-120	2.47	25	
4,4'-DDT	2.37	0.25	0.020	ug/L	2.50	NA	94.8	80-120	3.89	25	
Aldrin	1.71	0.25	0.018	ug/L	2.50	NA	68.6	60-110	12.0	25	
alpha-BHC	1.68	0.25	0.021	ug/L	2.50	NA	67.2	70-120	17.9	25	
alpha-Chlordane	2.08	0.25	0.016	ug/L	2.50	NA	83.0	80-120	1.14	25	
beta-BHC	2.15	0.25	0.016	ug/L	2.50	NA	85.9	80-120	2.00	25	
delta-BHC	2.18	0.25	0.014	ug/L	2.50	NA	87.1	80-120	1.01	25	
Dieldrin	2.10	0.25	0.024	ug/L	2.50	NA	84.0	80-120	2.04	25	
Endosulfan I	2.06	0.25	0.021	ug/L	2.50	NA	82.4	80-120	3.54	25	
Endosulfan II	2.17	0.25	0.019	ug/L	2.50	NA	86.7	80-120	0.149	25	
Endosulfan Sulfate	2.23	0.25	0.019	ug/L	2.50	NA	89.3	80-120	0.285	25	
Endrin	2.18	0.25	0.020	ug/L	2.50	NA	87.2	80-120	1.10	25	
Endrin Aldehyde	2.23	0.25	0.040	ug/L	2.50	NA	89.0	80-120	0.0234	25	
Endrin Ketone	2.28	0.25	0.019	ug/L	2.50	NA	91.3	80-120	0.210	25	
gamma-BHC	1.89	0.25	0.020	ug/L	2.50	NA	75.6	80-120	11.4	25	
gamma-Chlordane	2.06	0.25	0.042	ug/L	2.50	NA	82.5	80-120	2.36	25	
Heptachlor	1.83	0.25	0.018	ug/L	2.50	NA	73.2	60-110	12.1	25	
Heptachlor Epoxide	2.09	0.25	0.038	ug/L	2.50	NA	83.5	80-120	3.47	25	
Methoxychlor	2.50	0.25	0.026	ug/L	2.50	NA	100	80-120	1.98	25	
Surrogate: DBC	2.16			ug/L	2.50	NA	86.2	40-130			
Surrogate: TCMX	1.02			ug/L	2.50	NA	41.0	40-120			

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Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0905465
Project Mgr: Steven J. Albrecht
Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9J0048 - EPA 3510C

Matrix Spike (B9J0048-MS1)

Source: 0905429-01

Prepared: 10/02/09 Analyzed: 10/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.22	0.25	0.016	ug/L	2.53	ND	88.0	50-130	NA	NA	
4,4'-DDE	2.05	0.25	0.016	ug/L	2.53	ND	81.2	50-130	NA	NA	
4,4'-DDT	2.31	0.25	0.020	ug/L	2.53	ND	91.4	50-130	NA	NA	
Aldrin	2.01	0.25	0.018	ug/L	2.53	ND	79.5	50-130	NA	NA	
alpha-BHC	2.18	0.25	0.021	ug/L	2.53	ND	86.5	50-130	NA	NA	
alpha-Chlordane	2.12	0.25	0.016	ug/L	2.53	ND	84.0	50-130	NA	NA	
beta-BHC	2.35	0.25	0.016	ug/L	2.53	ND	93.1	50-130	NA	NA	
Chlordane (tech)	< J	1.0		ug/L	NA	0.00	NA	50-130	NA	NA	
delta-BHC	2.35	0.25	0.014	ug/L	2.53	ND	93.0	50-130	NA	NA	
Dieldrin	2.23	0.25	0.024	ug/L	2.53	ND	88.5	50-130	NA	NA	
Endosulfan I	2.23	0.25	0.021	ug/L	2.53	ND	88.5	50-130	NA	NA	
Endosulfan II	2.28	0.25	0.019	ug/L	2.53	ND	90.2	50-130	NA	NA	
Endosulfan Sulfate	2.37	0.25	0.019	ug/L	2.53	ND	93.9	50-130	NA	NA	
Endrin	2.33	0.25	0.020	ug/L	2.53	ND	92.4	50-130	NA	NA	
Endrin Aldehyde	2.37	0.25	0.040	ug/L	2.53	ND	93.8	50-130	NA	NA	
Endrin Ketone	2.45	0.25	0.019	ug/L	2.53	ND	96.9	50-130	NA	NA	
gamma-BHC	2.27	0.25	0.020	ug/L	2.53	ND	89.7	50-130	NA	NA	
gamma-Chlordane	2.14	0.25	0.042	ug/L	2.53	ND	84.8	50-130	NA	NA	
Heptachlor	2.17	0.25	0.018	ug/L	2.53	ND	85.9	50-130	NA	NA	
Heptachlor Epoxide	2.28	0.25	0.038	ug/L	2.53	ND	90.1	50-130	NA	NA	
Methoxychlor	2.54	0.25	0.026	ug/L	2.53	ND	101	50-130	NA	NA	
Toxaphene	<1.0	5.0	1.0	ug/L	NA	ND	NA	50-130	NA	NA	
Surrogate: DBC	1.88			ug/L	2.53	NA	74.4	40-130			
Surrogate: TCMX	1.50			ug/L	2.53	NA	59.5	40-120			

Matrix Spike Duplicate (B9J0048-MSD1)

Source: 0905429-01

Prepared: 10/02/09 Analyzed: 10/06/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.40	0.25	0.016	ug/L	2.53	ND	95.1	50-130	7.72	25	
4,4'-DDE	2.27	0.25	0.016	ug/L	2.53	ND	89.9	50-130	10.2	25	
4,4'-DDT	2.43	0.25	0.020	ug/L	2.53	ND	96.2	50-130	5.21	25	
Aldrin	2.20	0.25	0.018	ug/L	2.53	ND	87.2	50-130	9.26	25	
alpha-BHC	2.35	0.25	0.021	ug/L	2.53	ND	92.9	50-130	7.12	25	
alpha-Chlordane	2.32	0.25	0.016	ug/L	2.53	ND	91.8	50-130	8.81	25	
beta-BHC	2.47	0.25	0.016	ug/L	2.53	ND	97.9	50-130	5.06	25	
delta-BHC	2.45	0.25	0.014	ug/L	2.53	ND	97.2	50-130	4.36	25	
Dieldrin	2.39	0.25	0.024	ug/L	2.53	ND	94.8	50-130	6.86	25	
Endosulfan I	2.37	0.25	0.021	ug/L	2.53	ND	93.8	50-130	5.82	25	
Endosulfan II	2.42	0.25	0.019	ug/L	2.53	ND	95.8	50-130	6.05	25	
Endosulfan Sulfate	2.46	0.25	0.019	ug/L	2.53	ND	97.6	50-130	3.88	25	
Endrin	2.46	0.25	0.020	ug/L	2.53	ND	97.3	50-130	5.21	25	
Endrin Aldehyde	2.55	0.25	0.040	ug/L	2.53	ND	101	50-130	7.32	25	
Endrin Ketone	2.50	0.25	0.019	ug/L	2.53	ND	99.0	50-130	2.10	25	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300 Client Contact: Ms. Kelly Neppl PO Number:	Work Order #: 0905465 Project Mgr: Steven J. Albrecht Account ID: B01058
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Organochlorine Pesticides - Quality Control

Batch B9J0048 - EPA 3510C

Matrix Spike Duplicate (B9J0048-MSD1)				Source: 0905429-01			Prepared: 10/02/09		Analyzed: 10/06/09			
Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
gamma-BHC	2.41	0.25	0.020	ug/L	2.53	ND	95.6	50-130	6.37	25		
gamma-Chlordane	2.30	0.25	0.042	ug/L	2.53	ND	90.9	50-130	6.96	25		
Heptachlor	2.34	0.25	0.018	ug/L	2.53	ND	92.6	50-130	7.56	25		
Heptachlor Epoxide	2.44	0.25	0.038	ug/L	2.53	ND	96.5	50-130	6.82	25		
Methoxychlor	2.65	0.25	0.026	ug/L	2.53	ND	105	50-130	4.23	25		
Surrogate: DBC	1.99			ug/L	2.53	NA	78.7	40-130				
Surrogate: TCMX	1.62			ug/L	2.53	NA	64.0	40-120				

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0905465
Project Mgr: Steven J. Albrecht
Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9J0033 - EPA 3510C

Method Blank (B9J0033-BLK1)

Prepared: 10/02/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Alachlor	<0.19	0.50	0.19	ug/L	NA	NA	NA	NA	NA	NA	
Atrazine	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.48	0.50	0.48	ug/L	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
EPTC	<0.22	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Ethalfuralin	<0.47	0.50	0.47	ug/L	NA	NA	NA	NA	NA	NA	
Fonofos	<0.30	0.50	0.30	ug/L	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.28	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.35	0.50	0.35	ug/L	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Phorate	<0.58	1.0	0.58	ug/L	NA	NA	NA	NA	NA	NA	
Prometon	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Propachlor	<0.14	0.50	0.14	ug/L	NA	NA	NA	NA	NA	NA	
Propazine	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Simazine	<0.32	0.50	0.32	ug/L	NA	NA	NA	NA	NA	NA	
Terbufos	<0.54	1.0	0.54	ug/L	NA	NA	NA	NA	NA	NA	
Triallate	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	10.9			ug/L	10.0	NA	109	50-120			
Surrogate: Diazinon-d10	10.6			ug/L	10.0	NA	106	50-120			

Laboratory Control Sample (B9J0033-BS1)

Prepared: 10/02/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.6	0.50	0.25	ug/L	10.0	NA	106	65-115	NA	NA	
Alachlor	10.7	0.50	0.19	ug/L	10.0	NA	107	65-115	NA	NA	
Atrazine	10.6	0.50	0.24	ug/L	10.0	NA	106	65-115	NA	NA	
Chlorpyrifos	9.72	0.50	0.34	ug/L	10.0	NA	97.2	65-115	NA	NA	
Cyanazine	9.77	0.50	0.48	ug/L	10.0	NA	97.7	65-115	NA	NA	
Deisopropylatrazine	9.09	0.50	0.26	ug/L	10.0	NA	90.9	65-115	NA	NA	
Desethylatrazine	11.2	0.50	0.29	ug/L	10.0	NA	112	65-115	NA	NA	
Dimethenamid	10.0	0.50	0.24	ug/L	10.0	NA	100	65-115	NA	NA	
EPTC	8.50	0.50	0.22	ug/L	10.0	NA	85.0	50-110	NA	NA	
Ethalfuralin	8.60	0.50	0.47	ug/L	10.0	NA	86.0	65-115	NA	NA	
Fonofos	9.96	0.50	0.30	ug/L	10.0	NA	99.6	55-115	NA	NA	
Metolachlor	10.5	0.50	0.28	ug/L	10.0	NA	105	70-120	NA	NA	
Metribuzin	9.64	0.50	0.35	ug/L	10.0	NA	96.4	70-120	NA	NA	
Pendimethalin	9.65	0.50	0.25	ug/L	10.0	NA	96.5	65-115	NA	NA	
Phorate	9.00	1.0	0.58	ug/L	10.0	NA	90.0	30-100	NA	NA	

Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300	Work Order #: 0905465
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9J0033 - EPA 3510C

Laboratory Control Sample (B9J0033-BS1)

Prepared: 10/02/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	10.5	0.50	0.29	ug/L	10.0	NA	105	70-120	NA	NA	
Propachlor	9.55	0.50	0.14	ug/L	10.0	NA	95.5	65-115	NA	NA	
Propazine	10.2	0.50	0.21	ug/L	10.0	NA	102	65-115	NA	NA	
Simazine	12.3	0.50	0.32	ug/L	10.0	NA	123	65-115	NA	NA	
Terbufos	8.78	1.0	0.54	ug/L	10.0	NA	87.8	30-100	NA	NA	
Triallate	9.40	0.50	0.34	ug/L	10.0	NA	94.0	65-115	NA	NA	
Trifluralin	8.39	0.50	0.21	ug/L	10.0	NA	83.9	65-115	NA	NA	
<i>Surrogate: Atrazine-d5</i>	<i>10.8</i>			ug/L	<i>10.0</i>	<i>NA</i>	<i>108</i>	<i>50-120</i>			
<i>Surrogate: Diazinon-d10</i>	<i>9.58</i>			ug/L	<i>10.0</i>	<i>NA</i>	<i>95.8</i>	<i>50-120</i>			

Laboratory Control Sample Duplicate (B9J0033-BSD1)

Prepared: 10/02/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	9.73	0.50	0.25	ug/L	10.0	NA	97.3	65-115	8.09	25	
Alachlor	10.2	0.50	0.19	ug/L	10.0	NA	102	65-115	4.11	25	
Atrazine	10.3	0.50	0.24	ug/L	10.0	NA	103	65-115	3.06	25	
Chlorpyrifos	9.37	0.50	0.34	ug/L	10.0	NA	93.7	65-115	3.67	25	
Cyanazine	9.48	0.50	0.48	ug/L	10.0	NA	94.8	65-115	3.01	25	
Deisopropylatrazine	8.62	0.50	0.26	ug/L	10.0	NA	86.2	65-115	5.31	25	
Desethylatrazine	10.4	0.50	0.29	ug/L	10.0	NA	104	65-115	7.52	25	
Dimethenamid	9.65	0.50	0.24	ug/L	10.0	NA	96.5	65-115	3.76	25	
EPTC	8.73	0.50	0.22	ug/L	10.0	NA	87.3	50-110	2.67	30	
Ethalfuralin	8.89	0.50	0.47	ug/L	10.0	NA	88.9	65-115	3.32	30	
Fonofos	9.90	0.50	0.30	ug/L	10.0	NA	99.0	55-115	0.604	30	
Metolachlor	10.0	0.50	0.28	ug/L	10.0	NA	100	70-120	4.28	25	
Metribuzin	9.22	0.50	0.35	ug/L	10.0	NA	92.2	70-120	4.45	25	
Pendimethalin	9.32	0.50	0.25	ug/L	10.0	NA	93.2	65-115	3.48	25	
Phorate	9.38	1.0	0.58	ug/L	10.0	NA	93.8	30-100	4.13	30	
Prometon	10.3	0.50	0.29	ug/L	10.0	NA	103	70-120	1.92	30	
Propachlor	9.43	0.50	0.14	ug/L	10.0	NA	94.3	65-115	1.26	30	
Propazine	10.3	0.50	0.21	ug/L	10.0	NA	103	65-115	1.17	25	
Simazine	12.3	0.50	0.32	ug/L	10.0	NA	123	65-115	0.244	25	
Terbufos	8.70	1.0	0.54	ug/L	10.0	NA	87.0	30-100	0.915	30	
Triallate	9.05	0.50	0.34	ug/L	10.0	NA	90.5	65-115	3.79	25	
Trifluralin	7.95	0.50	0.21	ug/L	10.0	NA	79.5	65-115	5.39	25	
<i>Surrogate: Atrazine-d5</i>	<i>10.2</i>			ug/L	<i>10.0</i>	<i>NA</i>	<i>102</i>	<i>50-120</i>			
<i>Surrogate: Diazinon-d10</i>	<i>9.50</i>			ug/L	<i>10.0</i>	<i>NA</i>	<i>95.0</i>	<i>50-120</i>			

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0905465
Project Mgr: Steven J. Albrecht
Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9J0033 - EPA 3510C

Matrix Spike (B9J0033-MS1)

Source: 0905428-02

Prepared: 10/02/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.2	0.50	0.25	ug/L	10.1	ND	100	65-115	NA	NA	
Alachlor	10.8	0.50	0.19	ug/L	10.1	ND	107	65-115	NA	NA	
Atrazine	10.6	0.50	0.24	ug/L	10.1	ND	105	65-115	NA	NA	
Chlorpyrifos	9.61	0.50	0.34	ug/L	10.1	ND	95.1	60-115	NA	NA	
Cyanazine	9.60	0.50	0.48	ug/L	10.1	ND	95.0	65-120	NA	NA	
Deisopropylatrazine	8.27	0.50	0.26	ug/L	10.1	ND	81.9	65-115	NA	NA	
Desethylatrazine	10.5	0.50	0.29	ug/L	10.1	ND	104	65-115	NA	NA	
Dimethenamid	10.1	0.50	0.24	ug/L	10.1	ND	99.6	65-120	NA	NA	
EPTC	10.3	0.50	0.22	ug/L	10.1	ND	101	50-110	NA	NA	
Ethalfuralin	8.40	0.50	0.47	ug/L	10.1	ND	83.2	65-115	NA	NA	
Fonofos	10.3	0.50	0.30	ug/L	10.1	ND	102	55-115	NA	NA	
Metolachlor	10.4	0.50	0.28	ug/L	10.1	ND	103	65-120	NA	NA	
Metribuzin	9.98	0.50	0.35	ug/L	10.1	ND	98.8	65-120	NA	NA	
Pendimethalin	9.65	0.50	0.25	ug/L	10.1	ND	95.5	60-115	NA	NA	
Phorate	10.0	1.0	0.58	ug/L	10.1	ND	99.2	30-100	NA	NA	
Prometon	10.2	0.50	0.29	ug/L	10.1	ND	101	70-120	NA	NA	
Propachlor	10.1	0.50	0.14	ug/L	10.1	ND	100	65-115	NA	NA	
Propazine	9.87	0.50	0.21	ug/L	10.1	ND	97.7	65-115	NA	NA	
Simazine	11.3	0.50	0.32	ug/L	10.1	ND	112	60-115	NA	NA	
Terbufos	9.71	1.0	0.54	ug/L	10.1	ND	96.1	30-100	NA	NA	
Triallate	9.57	0.50	0.34	ug/L	10.1	ND	94.7	60-115	NA	NA	
Trifluralin	8.12	0.50	0.21	ug/L	10.1	ND	80.4	65-115	NA	NA	
Surrogate: Atrazine-d5	10.3			ug/L	10.1	NA	102	50-120			
Surrogate: Diazinon-d10	10.3			ug/L	10.1	NA	102	50-120			

Matrix Spike Duplicate (B9J0033-MSD1)

Source: 0905428-02

Prepared: 10/02/09 Analyzed: 10/05/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	10.6	0.50	0.25	ug/L	10.1	ND	105	65-115	4.28	30	
Alachlor	10.9	0.50	0.19	ug/L	10.1	ND	108	65-115	1.02	30	
Atrazine	10.6	0.50	0.24	ug/L	10.1	ND	105	65-115	0.572	30	
Chlorpyrifos	9.68	0.50	0.34	ug/L	10.1	ND	95.8	60-115	0.733	30	
Cyanazine	9.04	0.50	0.48	ug/L	10.1	ND	89.5	65-120	5.96	30	
Deisopropylatrazine	8.47	0.50	0.26	ug/L	10.1	ND	83.9	65-115	2.41	30	
Desethylatrazine	10.7	0.50	0.29	ug/L	10.1	ND	106	65-115	1.24	30	
Dimethenamid	10.5	0.50	0.24	ug/L	10.1	ND	104	65-120	4.71	30	
EPTC	9.57	0.50	0.22	ug/L	10.1	ND	94.7	50-110	6.93	30	
Ethalfuralin	9.91	0.50	0.47	ug/L	10.1	ND	98.1	65-115	16.4	30	
Fonofos	10.5	0.50	0.30	ug/L	10.1	ND	104	55-115	2.14	30	
Metolachlor	10.7	0.50	0.28	ug/L	10.1	ND	106	65-120	2.49	30	
Metribuzin	9.60	0.50	0.35	ug/L	10.1	ND	95.0	65-120	3.92	30	
Pendimethalin	9.56	0.50	0.25	ug/L	10.1	ND	94.6	60-115	0.947	30	
Phorate	10.2	1.0	0.58	ug/L	10.1	ND	101	30-100	1.50	30	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300 Client Contact: Ms. Kelly Neppl PO Number:	Work Order #: 0905465 Project Mgr: Steven J. Albrecht Account ID: B01058
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Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9J0033 - EPA 3510C

Matrix Spike Duplicate (B9J0033-MSD1)				Source: 0905428-02			Prepared: 10/02/09		Analyzed: 10/05/09		
Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	10.6	0.50	0.29	ug/L	10.1	ND	105	70-120	3.88	30	
Propachlor	10.4	0.50	0.14	ug/L	10.1	ND	103	65-115	2.26	30	
Propazine	10.5	0.50	0.21	ug/L	10.1	ND	104	65-115	6.53	30	
Simazine	12.4	0.50	0.32	ug/L	10.1	ND	123	60-115	9.09	30	
Terbufos	9.58	1.0	0.54	ug/L	10.1	ND	94.8	30-100	1.36	30	
Triallate	9.90	0.50	0.34	ug/L	10.1	ND	98.0	60-115	3.43	30	
Trifluralin	8.53	0.50	0.21	ug/L	10.1	ND	84.4	65-115	4.85	30	
<i>Surrogate: Atrazine-d5</i>	<i>10.5</i>			<i>ug/L</i>	<i>10.1</i>	<i>NA</i>	<i>104</i>	<i>50-120</i>			
<i>Surrogate: Diazinon-d10</i>	<i>10.2</i>			<i>ug/L</i>	<i>10.1</i>	<i>NA</i>	<i>101</i>	<i>50-120</i>			

Barr Engineering Company
4700 West 77th Street
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Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0905465
Project Mgr: Steven J. Albrecht
Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9J0038 - EPA 3510C

Method Blank (B9J0038-BLK1)

Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D	<0.50	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.50	0.50	0.15	ug/L	NA	NA	NA	NA	NA	NA	
Bentazon	<0.50	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Dicamba	<0.50	0.50	0.38	ug/L	NA	NA	NA	NA	NA	NA	
Dinoseb	<0.50	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.30	0.30	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	NA	NA	NA	NA	NA	NA	
Picloram	<0.50	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.50	0.50	0.41	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	3.36			ug/L	5.00	NA	67.2	65-130			

Laboratory Control Sample (B9J0038-BS1)

Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	3.65	0.50	0.31	ug/L	5.00	NA	73.0	70-130	NA	NA	
2,4,5-T.P.	3.66	0.50	0.28	ug/L	5.00	NA	73.2	70-130	NA	NA	
2,4-D	3.59	0.50	0.26	ug/L	5.00	NA	71.8	70-130	NA	NA	
2,4-D.B.	4.00	0.50	0.15	ug/L	5.00	NA	80.0	75-140	NA	NA	
Bentazon	3.85	0.50	0.22	ug/L	5.00	NA	77.0	75-135	NA	NA	
Dicamba	3.83	0.50	0.38	ug/L	5.00	NA	76.6	65-130	NA	NA	
Dinoseb	2.69	0.50	0.34	ug/L	5.00	NA	53.8	40-125	NA	NA	
M.C.P.A.	3.87	0.30	0.29	ug/L	5.00	NA	77.4	70-130	NA	NA	
Pentachlorophenol	4.05	0.50	0.39	ug/L	5.00	NA	81.0	70-120	NA	NA	
Picloram	3.30	0.50	0.25	ug/L	5.00	NA	66.0	60-125	NA	NA	
Triclopyr	4.22	0.50	0.41	ug/L	5.00	NA	84.4	75-125	NA	NA	
Surrogate: D.C.A.A.	3.96			ug/L	5.00	NA	79.2	65-130			

Laboratory Control Sample Duplicate (B9J0038-BSD1)

Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.54	0.50	0.31	ug/L	5.00	NA	90.8	70-130	21.7	20	
2,4,5-T.P.	4.14	0.50	0.28	ug/L	5.00	NA	82.8	70-130	12.3	20	
2,4-D	3.91	0.50	0.26	ug/L	5.00	NA	78.2	70-130	8.53	20	
2,4-D.B.	4.45	0.50	0.15	ug/L	5.00	NA	89.0	75-140	10.7	20	
Bentazon	4.18	0.50	0.22	ug/L	5.00	NA	83.6	75-135	8.22	20	
Dicamba	4.02	0.50	0.38	ug/L	5.00	NA	80.4	65-130	4.84	20	
Dinoseb	2.76	0.50	0.34	ug/L	5.00	NA	55.2	40-125	2.57	20	
M.C.P.A.	4.27	0.30	0.29	ug/L	5.00	NA	85.4	70-130	9.83	20	
Pentachlorophenol	3.67	0.50	0.39	ug/L	5.00	NA	73.4	70-120	9.84	20	
Picloram	3.64	0.50	0.25	ug/L	5.00	NA	72.8	60-125	9.80	20	
Triclopyr	4.34	0.50	0.41	ug/L	5.00	NA	86.8	75-125	2.80	20	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300 Client Contact: Ms. Kelly Neppel PO Number:	Work Order #: 0905465 Project Mgr: Steven J. Albrecht Account ID: B01058
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Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9J0038 - EPA 3510C

Laboratory Control Sample Duplicate (B9J0038-BSD1)

Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	4.22			ug/L	5.00	NA	84.4	65-130			

Matrix Spike (B9J0038-MS1)

Source: 0905466-01

Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	3.98	0.50	0.31	ug/L	5.05	ND	78.8	70-140	NA	NA	
2,4,5-T.P.	4.22	0.50	0.28	ug/L	5.05	ND	83.6	70-135	NA	NA	
2,4-D	4.03	0.50	0.26	ug/L	5.05	ND	79.8	70-140	NA	NA	
2,4-D.B.	4.59	0.50	0.15	ug/L	5.05	ND	90.8	75-140	NA	NA	
Bentazon	4.08	0.50	0.22	ug/L	5.05	ND	80.8	70-140	NA	NA	
Dicamba	3.88	0.50	0.38	ug/L	5.05	ND	76.8	65-140	NA	NA	
Dinoseb	3.15	0.50	0.34	ug/L	5.05	ND	62.4	40-130	NA	NA	
M.C.P.A.	3.99	0.30	0.29	ug/L	5.05	ND	79.0	60-140	NA	NA	
Pentachlorophenol	3.74	0.50	0.39	ug/L	5.05	ND	74.0	70-125	NA	NA	
Picloram	3.39	0.50	0.25	ug/L	5.05	ND	67.2	45-140	NA	NA	
Triclopyr	4.35	0.50	0.41	ug/L	5.05	ND	86.2	75-125	NA	NA	
Surrogate: D.C.A.A.	4.35			ug/L	5.05	NA	86.2	65-130			

Matrix Spike Duplicate (B9J0038-MSD1)

Source: 0905466-01

Prepared: 10/02/09 Analyzed: 10/07/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.59	0.50	0.31	ug/L	5.05	ND	90.8	70-140	14.2	25	
2,4,5-T.P.	4.44	0.50	0.28	ug/L	5.05	ND	88.0	70-135	5.13	25	
2,4-D	4.38	0.50	0.26	ug/L	5.05	ND	86.8	70-140	8.40	25	
2,4-D.B.	4.84	0.50	0.15	ug/L	5.05	ND	95.8	75-140	5.36	25	
Bentazon	4.32	0.50	0.22	ug/L	5.05	ND	85.6	70-140	5.77	25	
Dicamba	4.19	0.50	0.38	ug/L	5.05	ND	83.0	65-140	7.76	25	
Dinoseb	3.27	0.50	0.34	ug/L	5.05	ND	64.8	40-130	3.77	25	
M.C.P.A.	3.96	0.30	0.29	ug/L	5.05	ND	78.4	60-140	0.762	25	
Pentachlorophenol	3.74	0.50	0.39	ug/L	5.05	ND	74.0	70-125	0.00	25	
Picloram	3.42	0.50	0.25	ug/L	5.05	ND	67.8	45-140	0.889	25	
Triclopyr	4.28	0.50	0.41	ug/L	5.05	ND	84.8	75-125	1.64	25	
Surrogate: D.C.A.A.	4.62			ug/L	5.05	NA	91.4	65-130			

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-B05.07 SIRI 300
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0905465
Project Mgr: Steven J. Albrecht
Account ID: B01058

0905465

Chain of Custody				Number of Containers/Preservative											COC _____ of _____														
Sample Identification	Collection		Matrix				Type	OC	Volatile Organics (Pres.) *1	Semi-volatile Organics *2	Dissolved Metals (HNO ₃)	Total Metals (HNO ₃)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H ₂ SO ₄) *4	Oil and Grease (H ₂ SO ₄)	Sulfide (Zn Acetate)	Methane	Bacteria (Na ₂ S ₂ O ₃)	DRO (HCl)	VOCs (2-oz tared MeOH) *7	GRO, BTEX (2-oz tared MeOH) *7	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)	Total No. Of Containers	Remarks	
	Date	Time	Water	Soil	Grab	Comp.																							
1. MW-EZ-009	9/30/09	1305	✓		✓			6																				6 TABLE 1, A ₁ list 1/2, OC, Pest	
2.																													
3.																													
4.																													
5.																													
6.																													
7.																													
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9.																													
10.																													
11.																													
12.																													#1 #2 #3 PHD 2.0 3.4 3.0

Relinquished By: *[Signature]* On Ice? N Date: 9/30/09 Time: Received by: *[Signature]* Date: 9/30/09 Time: 1550

Reinquired By: On Ice? N Date: Time: Received by: Date: Time:

Samples Shipped Via: Air Freight Federal Express Sampler Air Bill Number: _____

Other: _____

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

BRAUN **INTERTEC**

Braun Intertec Corporation
11001 Hampshire Avenue S.
Minneapolis, MN 55438

Phone: 952.995.2000
Fax: 952.995.2020
Web: braunintertec.com

Ms. Kelly Neppl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

October 19, 2009

Work Order #: 0905516

RE: UMore UMA-SSI/RI 23/19-0B05 SOC 325

Dear Kelly Neppl:

Braun Intertec Corporation received samples for the project identified above on October 02, 2009. Analytical results are summarized in the following report.

All routine quality assurance procedures were followed, unless otherwise noted.

Analytical results are reported on an "as received" basis unless otherwise noted. Where possible, the samples will be retained by the laboratory for 14 days following issuance of the initial final report. The samples will be disposed of or returned at that time. Arrangements can be made for extended storage by contacting me at this time.

We appreciate your decision to use Braun Intertec Corporation for this project. We are committed to being your vendor of choice to meet your analytical chemistry needs.

If you have any questions please contact me at the above phone number.

Sincerely,



Steven J. Albrecht
Associate Principal

Certification/Accreditation Numbers

Minnesota Department of Health: 027-053-117

Wisconsin DNR: 999462640

Providing engineering and environmental solutions since 1957

Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0B05 SOC 325	Work Order #: 0905516
4700 West 77th Street	Client Contact: Ms. Kelly Neppel	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

How to Use this Report

In order to get the most out of the information presented in this report please refer to the following explanations as to how the data in this report is tied together and how some of the terms are defined.

Qualifiers and Abbreviations are defined in the following section. You will find these codes used throughout the report in headers and in note sections to designate a unique fact about the data to which they are associated.

The Case Narrative gives a "story" about the analysis and results. Here you will find greater elaboration on relevant qualifiers as well as an explanation of anything of particular note in the data. This is a discussion of the data in terms of quality control and chemistry. It is a summary of any deviations that could affect the usefulness of the data. This is not an interpretation as to how this information relates to regulatory compliance, toxicity, or hazardous characterization. These items are beyond the scope of this report.

The Sample Summary provides detail on sample receipt. The association between Client sample ID and the Laboratory sample ID are defined here; this information is valuable to have when discussing results with your project manager. Sample collection and receipt dates and times are provided here as well. General notes regarding the work order are also documented here. This is a mini "case narrative" that describes any anomalies regarding the condition of the samples upon arrival to the laboratory or special circumstances regarding the work order.

The Conditions Upon Receipt summarizes the results of specific checks that have been performed at sample receipt. This includes items like custody documentation, sample condition, and temperature at receipt. Each "cooler" is identified and the conditions associated with that cooler are documented. A "cooler" is defined as the larger container used to transport the individual samples. In most cases this is a standard recreational cooler but it can be a box, plastic bag, or other container.

The laboratory results are summarized in the following sections. Data is broken down into major categories for convenience. An example of such a category would be "Total Petroleum Hydrocarbons." Here you would find data that references the testing of such parameters as diesel range organics and gasoline range organics. Other categories are similarly mapped. The batch number is associated with each sample. This is important to evaluate Quality Control (QC) data. Surrogate results samples are provided with each sample. Laboratory control limits are provided for comparison (see below). The reference method is also identified. If a method is denoted with an "M" (e.g. EPA 1234(M)) this means that it has been modified. An explanation of the modification will be found in the Case Narrative. A result is given with appropriate units. If a soil sample is dry-weight corrected then the word "dry" will appear next to the units. If the word "dry" does not appear then the result is "as received."

The Method Reporting Limit (MRL) and Method Detection Limit (MDL) are provided. It is important to understand these terms. The MRL is a level that has been empirically verified to provide reliable quantitation of results. Results that are equal to or greater than this value will show up in bold. They are considered "hits." The MDL is a statistically derived number that indicates an estimated concentration at which an analyte can be detected above the noise level. If a result is less than the MRL but greater than the MDL then it is considered an estimate. Such a result is reported with a "J" flag denoting that it has been detected but that the result is an estimate.

In this specific report format, the majority of the analyses are reported without estimated concentrations less than the MRL. For these analyses, if a result is less than the MRL, the result is given as less than the MRL (e.g. if the MRL = 10 then a less than result would be given as "<10"). However, for the Organochlorine Pesticides in water and MDA List 1 Pesticides in water analyses, if a result is less than the MRL but greater than the MDL, then an estimated result is reported with a "J" flag. If a result for either of these two analyses is less than the MDL, then the result is given as less than the MDL.

The Quality Control (QC) samples are documented in the following section. Here you will find the preparation batches associated with each sample from the results section. The sample preparation method is also defined here. Accuracy is represented here in terms of a percent recovery as compared to a known value. Precision is represented as a relative percent difference between two duplicate sample aliquots. The laboratory control limits are provided as a means to evaluate the quality control data. If the result falls outside the laboratory control limits this simply means that it is outside what is typical for the laboratory and is noted accordingly. This does not mean that the data is invalid. Laboratory control limits are generally tighter than most program limits. This is a very important distinction. How the data is ultimately used determines its validity. Program requirements are defined in the Quality Assurance Project Plan (QAPP) governing the project. If your project manager is aware of your specific program requirements then a note will be made in the case narrative if the data fails to meet any of these requirements.

The last section contains copies of important documents and/or instrument printouts relevant to the report. This includes the chain of custody. It also may include items like chromatograms or spectra.

Please note that this report is paginated and must be reproduced in its entirety.

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-0B05 SOC 325
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0905516
Project Mgr: Steven J. Albrecht
Account ID: B01058

Qualifiers and Abbreviations

qn	The spike recovery is outside of laboratory control limits for the matrix spike (MS) and/or the matrix spike duplicate (MSD).
go	The laboratory control sample recovery is outside of laboratory control limits.
COC	Chain of Custody
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
ND	Analyte NOT DETECTED
NR	Not Reported
%Rec	Percent Recovery
RPD	Relative Percent Difference
VOC	Volatile Organic Compound

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-0B05 SOC 325
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0905516
Project Mgr: Steven J. Albrecht
Account ID: B01058

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-E2-012	0905516-01	Water	10/02/09 11:40	10/02/09 13:15
M-1	0905516-02	Water	10/02/09 11:40	10/02/09 13:15

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-0B05 SOC 325
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0905516
Project Mgr: Steven J. Albrecht
Account ID: B01058

Conditions Upon Receipt

Cooler: Cooler 1

Temperature: 2.8 °C
Temperature Blank: Yes
Received on Ice: Yes
Preservation Confirmed: No

COC Included: Yes
COC Complete: Yes
COC & Labels Agree: Yes
Sufficient Sample Provided: Yes

Custody Seals Used: No
Custody Seals Intact: NA
Hand Delivered by Client: Yes
Headspace Present (VOC): No

Cooler: Cooler 2

Temperature: 3.1 °C
Temperature Blank: Yes
Received on Ice: Yes
Preservation Confirmed: No

COC Included: Yes
COC Complete: Yes
COC & Labels Agree: Yes
Sufficient Sample Provided: Yes

Custody Seals Used: No
Custody Seals Intact: NA
Hand Delivered by Client: Yes
Headspace Present (VOC): No

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore UMA-SSI/RI 23/19-0B05 SOC 325 Client Contact: Ms. Kelly Nepl PO Number:	Work Order #: 0905516 Project Mgr: Steven J. Albrecht Account ID: B01058
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MW-E2-012
0905516-01 (Water)
10/2/09 11:40

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
4,4'-DDE	<0.016	0.25	0.016	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
4,4'-DDT	<0.020	0.25	0.020	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
Aldrin	<0.018	0.25	0.018	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
alpha-BHC	<0.021	0.25	0.021	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
alpha-Chlordane	<0.016	0.25	0.016	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
beta-BHC	<0.016	0.25	0.016	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
delta-BHC	<0.014	0.25	0.014	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
Dieldrin	<0.024	0.25	0.024	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
Endosulfan I	<0.021	0.25	0.021	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
Endosulfan II	<0.019	0.25	0.019	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
Endrin	<0.020	0.25	0.020	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
Endrin Ketone	<0.019	0.25	0.019	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
gamma-BHC	<0.020	0.25	0.020	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
gamma-Chlordane	<0.042	0.25	0.042	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
Heptachlor	<0.018	0.25	0.018	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
Methoxychlor	<0.026	0.25	0.026	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
Toxaphene	<1.0	5.0	1.0	ug/L	B9J0191	10/9/09 12:00	10/14/09 3:53	EPA 8081A	
<i>Surr: DBC</i>	<i>104 %</i>	<i>Limits: 40-130%</i>			<i>B9J0191</i>	<i>10/9/09 12:00</i>	<i>10/14/09 4:19</i>	<i>EPA 8081A</i>	
<i>Surr: TCMX</i>	<i>69.7 %</i>	<i>Limits: 40-120%</i>			<i>B9J0191</i>	<i>10/9/09 12:00</i>	<i>10/14/09 3:53</i>	<i>EPA 8081A</i>	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	
Alachlor	<0.19	0.50	0.19	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	
Atrazine	<0.24	0.50	0.24	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	
Cyanazine	<0.48	0.50	0.48	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	go, qn
Desethylatrazine	<0.29	0.50	0.29	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	
Dimethenamid	<0.24	0.50	0.24	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	
EPTC	<0.22	0.50	0.22	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	
Ethalfuralin	<0.47	0.50	0.47	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	
Fonofos	<0.30	0.50	0.30	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	
Metolachlor	<0.28	0.50	0.28	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	
Metribuzin	<0.35	0.50	0.35	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	
Pendimethalin	<0.25	0.50	0.25	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-0B05 SOC 325
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0905516
Project Mgr: Steven J. Albrecht
Account ID: B01058

MW-E2-012
0905516-01 (Water)
10/2/09 11:40

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Phorate	<0.58	1.0	0.58	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	
Prometon	<0.29	0.50	0.29	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	
Propachlor	<0.14	0.50	0.14	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	
Propazine	<0.21	0.50	0.21	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	
Simazine	<0.32	0.50	0.32	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	
Terbufos	<0.54	1.0	0.54	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	
Triallate	<0.34	0.50	0.34	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	
Trifluralin	<0.21	0.50	0.21	ug/L	B9J0182	10/9/09 7:07	10/12/09 16:44	EPA 8270C	
<i>Surr: Atrazine-d5</i>	<i>91.8 %</i>	<i>Limits: 50-120%</i>			<i>B9J0182</i>	<i>10/9/09 7:07</i>	<i>10/12/09 16:44</i>	<i>EPA 8270C</i>	
<i>Surr: Diazinon-d10</i>	<i>89.0 %</i>	<i>Limits: 50-120%</i>			<i>B9J0182</i>	<i>10/9/09 7:07</i>	<i>10/12/09 16:44</i>	<i>EPA 8270C</i>	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:28	EPA 8270C	
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:28	EPA 8270C	
2,4-D	<0.50	0.50	0.26	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:28	EPA 8270C	
2,4-D.B.	<0.50	0.50	0.15	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:28	EPA 8270C	
Bentazon	<0.50	0.50	0.22	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:28	EPA 8270C	
Dicamba	<0.50	0.50	0.38	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:28	EPA 8270C	
Dinoseb	<0.50	0.50	0.34	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:28	EPA 8270C	
M.C.P.A.	<0.30	0.30	0.29	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:28	EPA 8270C	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:28	EPA 8270C	
Picloram	<0.50	0.50	0.25	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:28	EPA 8270C	
Triclopyr	<0.50	0.50	0.41	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:28	EPA 8270C	qn
<i>Surr: D.C.A.A.</i>	<i>82.0 %</i>	<i>Limits: 65-130%</i>			<i>B9J0172</i>	<i>10/8/09 12:57</i>	<i>10/9/09 19:28</i>	<i>EPA 8270C</i>	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore UMA-SSI/RI 23/19-0B05 SOC 325 Client Contact: Ms. Kelly Nepl PO Number:	Work Order #: 0905516 Project Mgr: Steven J. Albrecht Account ID: B01058
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M-1
0905516-02 (Water)
10/2/09 11:40

Organochlorine Pesticides

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
4,4'-DDE	<0.016	0.25	0.016	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
4,4'-DDT	<0.020	0.25	0.020	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
Aldrin	<0.018	0.25	0.018	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
alpha-BHC	<0.021	0.25	0.021	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
alpha-Chlordane	<0.016	0.25	0.016	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
beta-BHC	<0.016	0.25	0.016	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
delta-BHC	<0.014	0.25	0.014	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
Dieldrin	<0.024	0.25	0.024	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
Endosulfan I	<0.021	0.25	0.021	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
Endosulfan II	<0.019	0.25	0.019	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
Endrin	<0.020	0.25	0.020	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
Endrin Ketone	<0.019	0.25	0.019	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
gamma-BHC	<0.020	0.25	0.020	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
gamma-Chlordane	<0.042	0.25	0.042	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
Heptachlor	<0.018	0.25	0.018	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
Methoxychlor	<0.026	0.25	0.026	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
Toxaphene	<1.0	5.0	1.0	ug/L	B9J0191	10/9/09 12:00	10/14/09 4:19	EPA 8081A	
<i>Surr: DBC</i>	<i>99.5 %</i>	<i>Limits: 40-130%</i>			<i>B9J0191</i>	<i>10/9/09 12:00</i>	<i>10/14/09 4:45</i>	<i>EPA 8081A</i>	
<i>Surr: TCMX</i>	<i>67.1 %</i>	<i>Limits: 40-120%</i>			<i>B9J0191</i>	<i>10/9/09 12:00</i>	<i>10/14/09 4:19</i>	<i>EPA 8081A</i>	

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	
Alachlor	<0.19	0.50	0.19	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	
Atrazine	<0.24	0.50	0.24	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	
Cyanazine	<0.48	0.50	0.48	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	go, qn
Desethylatrazine	<0.29	0.50	0.29	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	
Dimethenamid	<0.24	0.50	0.24	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	
EPTC	<0.22	0.50	0.22	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	
Ethalfuralin	<0.47	0.50	0.47	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	
Fonofos	<0.30	0.50	0.30	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	
Metolachlor	<0.28	0.50	0.28	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	
Metribuzin	<0.35	0.50	0.35	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	
Pendimethalin	<0.25	0.50	0.25	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore UMA-SSI/RI 23/19-0B05 SOC 325 Client Contact: Ms. Kelly Neppel PO Number:	Work Order #: 0905516 Project Mgr: Steven J. Albrecht Account ID: B01058
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M-1
0905516-02 (Water)
10/2/09 11:40

Neutral Extractable Pesticides (MDA List 1)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
Phorate	<0.58	1.0	0.58	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	
Prometon	<0.29	0.50	0.29	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	
Propachlor	<0.14	0.50	0.14	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	
Propazine	<0.21	0.50	0.21	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	
Simazine	<0.32	0.50	0.32	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	
Terbufos	<0.54	1.0	0.54	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	
Triallate	<0.34	0.50	0.34	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	
Trifluralin	<0.21	0.50	0.21	ug/L	B9J0182	10/9/09 7:07	10/12/09 17:09	EPA 8270C	
<i>Surr: Atrazine-d5</i>	<i>91.3 %</i>	<i>Limits: 50-120%</i>			<i>B9J0182</i>	<i>10/9/09 7:07</i>	<i>10/12/09 17:09</i>	<i>EPA 8270C</i>	
<i>Surr: Diazinon-d10</i>	<i>89.2 %</i>	<i>Limits: 50-120%</i>			<i>B9J0182</i>	<i>10/9/09 7:07</i>	<i>10/12/09 17:09</i>	<i>EPA 8270C</i>	

Acid Extractable Pesticides (MDA List 2)

Analyte	Result	MRL	MDL	Units	Batch	Prepared	Analyzed	Method	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:53	EPA 8270C	
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:53	EPA 8270C	
2,4-D	<0.50	0.50	0.26	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:53	EPA 8270C	
2,4-D.B.	<0.50	0.50	0.15	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:53	EPA 8270C	
Bentazon	<0.50	0.50	0.22	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:53	EPA 8270C	
Dicamba	<0.50	0.50	0.38	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:53	EPA 8270C	
Dinoseb	<0.50	0.50	0.34	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:53	EPA 8270C	
M.C.P.A.	<0.30	0.30	0.29	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:53	EPA 8270C	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:53	EPA 8270C	
Picloram	<0.50	0.50	0.25	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:53	EPA 8270C	
Triclopyr	<0.50	0.50	0.41	ug/L	B9J0172	10/8/09 12:57	10/9/09 19:53	EPA 8270C	qn
<i>Surr: D.C.A.A.</i>	<i>78.4 %</i>	<i>Limits: 65-130%</i>			<i>B9J0172</i>	<i>10/8/09 12:57</i>	<i>10/9/09 19:53</i>	<i>EPA 8270C</i>	

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-0B05 SOC 325
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0905516
Project Mgr: Steven J. Albrecht
Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9J0191 - EPA 3510C

Method Blank (B9J0191-BLK2)

Prepared: 10/09/09 Analyzed: 10/13/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDE	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
4,4'-DDT	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Aldrin	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
alpha-BHC	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
beta-BHC	<0.016	0.25	0.016	ug/L	NA	NA	NA	NA	NA	NA	
delta-BHC	<0.014	0.25	0.014	ug/L	NA	NA	NA	NA	NA	NA	
Dieldrin	<0.024	0.25	0.024	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan I	<0.021	0.25	0.021	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan II	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endosulfan Sulfate	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
Endrin	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Aldehyde	<0.040	0.25	0.040	ug/L	NA	NA	NA	NA	NA	NA	
Endrin Ketone	<0.019	0.25	0.019	ug/L	NA	NA	NA	NA	NA	NA	
gamma-BHC	<0.020	0.25	0.020	ug/L	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	<0.042	0.25	0.042	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor	<0.018	0.25	0.018	ug/L	NA	NA	NA	NA	NA	NA	
Heptachlor Epoxide	<0.038	0.25	0.038	ug/L	NA	NA	NA	NA	NA	NA	
Methoxychlor	<0.026	0.25	0.026	ug/L	NA	NA	NA	NA	NA	NA	
Toxaphene	<1.0	5.0	1.0	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: DBC	1.79			ug/L	2.50	NA	71.7	40-130			
Surrogate: TCMX	1.27			ug/L	2.50	NA	50.8	40-120			

Laboratory Control Sample (B9J0191-BS2)

Prepared: 10/09/09 Analyzed: 10/13/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.29	0.25	0.016	ug/L	2.50	NA	91.5	80-120	NA	NA	
4,4'-DDE	2.20	0.25	0.016	ug/L	2.50	NA	87.9	80-120	NA	NA	
4,4'-DDT	2.22	0.25	0.020	ug/L	2.50	NA	88.9	80-120	NA	NA	
Aldrin	2.05	0.25	0.018	ug/L	2.50	NA	82.0	60-110	NA	NA	
alpha-BHC	2.26	0.25	0.021	ug/L	2.50	NA	90.2	70-120	NA	NA	
alpha-Chlordane	2.26	0.25	0.016	ug/L	2.50	NA	90.3	80-120	NA	NA	
beta-BHC	2.43	0.25	0.016	ug/L	2.50	NA	97.3	80-120	NA	NA	
delta-BHC	2.46	0.25	0.014	ug/L	2.50	NA	98.3	80-120	NA	NA	
Dieldrin	2.37	0.25	0.024	ug/L	2.50	NA	94.8	80-120	NA	NA	
Endosulfan I	2.34	0.25	0.021	ug/L	2.50	NA	93.5	80-120	NA	NA	
Endosulfan II	2.31	0.25	0.019	ug/L	2.50	NA	92.3	80-120	NA	NA	
Endosulfan Sulfate	2.34	0.25	0.019	ug/L	2.50	NA	93.7	80-120	NA	NA	
Endrin	2.37	0.25	0.020	ug/L	2.50	NA	94.8	80-120	NA	NA	
Endrin Aldehyde	2.44	0.25	0.040	ug/L	2.50	NA	97.5	80-120	NA	NA	
Endrin Ketone	2.38	0.25	0.019	ug/L	2.50	NA	95.2	80-120	NA	NA	
gamma-BHC	2.35	0.25	0.020	ug/L	2.50	NA	94.0	80-120	NA	NA	

Barr Engineering Company
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Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-0B05 SOC 325
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0905516
Project Mgr: Steven J. Albrecht
Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9J0191 - EPA 3510C

Laboratory Control Sample (B9J0191-BS2)

Prepared: 10/09/09 Analyzed: 10/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
gamma-Chlordane	2.26	0.25	0.042	ug/L	2.50	NA	90.5	80-120	NA	NA	
Heptachlor	2.11	0.25	0.018	ug/L	2.50	NA	84.5	60-110	NA	NA	
Heptachlor Epoxide	2.37	0.25	0.038	ug/L	2.50	NA	94.8	80-120	NA	NA	
Methoxychlor	2.30	0.25	0.026	ug/L	2.50	NA	92.0	80-120	NA	NA	
Surrogate: DBC	1.83			ug/L	2.50	NA	73.3	40-130			
Surrogate: TCMX	1.37			ug/L	2.50	NA	54.9	40-120			

Laboratory Control Sample Duplicate (B9J0191-BSD2)

Prepared: 10/09/09 Analyzed: 10/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.41	0.25	0.016	ug/L	2.50	NA	96.2	80-120	5.01	25	
4,4'-DDE	2.33	0.25	0.016	ug/L	2.50	NA	93.2	80-120	5.89	25	
4,4'-DDT	2.38	0.25	0.020	ug/L	2.50	NA	95.0	80-120	6.72	25	
Aldrin	2.06	0.25	0.018	ug/L	2.50	NA	82.4	60-110	0.466	25	
alpha-BHC	2.20	0.25	0.021	ug/L	2.50	NA	88.2	70-120	2.28	25	
alpha-Chlordane	2.32	0.25	0.016	ug/L	2.50	NA	92.6	80-120	2.56	25	
beta-BHC	2.44	0.25	0.016	ug/L	2.50	NA	97.8	80-120	0.456	25	
delta-BHC	2.50	0.25	0.014	ug/L	2.50	NA	100	80-120	1.93	25	
Dieldrin	2.41	0.25	0.024	ug/L	2.50	NA	96.4	80-120	1.69	25	
Endosulfan I	2.35	0.25	0.021	ug/L	2.50	NA	93.9	80-120	0.478	25	
Endosulfan II	2.34	0.25	0.019	ug/L	2.50	NA	93.7	80-120	1.51	25	
Endosulfan Sulfate	2.39	0.25	0.019	ug/L	2.50	NA	95.6	80-120	2.07	25	
Endrin	2.40	0.25	0.020	ug/L	2.50	NA	96.1	80-120	1.35	25	
Endrin Aldehyde	2.53	0.25	0.040	ug/L	2.50	NA	101	80-120	3.65	25	
Endrin Ketone	2.43	0.25	0.019	ug/L	2.50	NA	97.3	80-120	2.17	25	
gamma-BHC	2.33	0.25	0.020	ug/L	2.50	NA	93.1	80-120	1.02	25	
gamma-Chlordane	2.33	0.25	0.042	ug/L	2.50	NA	93.3	80-120	3.05	25	
Heptachlor	2.10	0.25	0.018	ug/L	2.50	NA	84.1	60-110	0.481	25	
Heptachlor Epoxide	2.38	0.25	0.038	ug/L	2.50	NA	95.3	80-120	0.547	25	
Methoxychlor	2.45	0.25	0.026	ug/L	2.50	NA	98.0	80-120	6.36	25	
Surrogate: DBC	2.19			ug/L	2.50	NA	87.6	40-130			
Surrogate: TCMX	1.33			ug/L	2.50	NA	53.0	40-120			

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-0B05 SOC 325
Client Contact: Ms. Kelly Neppel
PO Number:

Work Order #: 0905516
Project Mgr: Steven J. Albrecht
Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9J0191 - EPA 3510C

Matrix Spike (B9J0191-MS2)

Source: 0905429-01RE1

Prepared: 10/09/09 Analyzed: 10/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.38	0.25	0.016	ug/L	2.51	ND	94.7	50-130	NA	NA	
4,4'-DDE	2.32	0.25	0.016	ug/L	2.51	ND	92.5	50-130	NA	NA	
4,4'-DDT	2.37	0.25	0.020	ug/L	2.51	ND	94.5	50-130	NA	NA	
Aldrin	2.15	0.25	0.018	ug/L	2.51	ND	85.5	50-130	NA	NA	
alpha-BHC	2.22	0.25	0.021	ug/L	2.51	ND	88.5	50-130	NA	NA	
alpha-Chlordane	2.32	0.25	0.016	ug/L	2.51	ND	92.5	50-130	NA	NA	
beta-BHC	2.39	0.25	0.016	ug/L	2.51	ND	95.0	50-130	NA	NA	
delta-BHC	2.44	0.25	0.014	ug/L	2.51	ND	97.1	50-130	NA	NA	
Dieldrin	2.41	0.25	0.024	ug/L	2.51	ND	96.0	50-130	NA	NA	
Endosulfan I	2.33	0.25	0.021	ug/L	2.51	ND	92.9	50-130	NA	NA	
Endosulfan II	2.30	0.25	0.019	ug/L	2.51	ND	91.4	50-130	NA	NA	
Endosulfan Sulfate	2.33	0.25	0.019	ug/L	2.51	ND	92.8	50-130	NA	NA	
Endrin	2.41	0.25	0.020	ug/L	2.51	ND	95.8	50-130	NA	NA	
Endrin Aldehyde	2.47	0.25	0.040	ug/L	2.51	ND	98.4	50-130	NA	NA	
Endrin Ketone	2.37	0.25	0.019	ug/L	2.51	ND	94.3	50-130	NA	NA	
gamma-BHC	2.27	0.25	0.020	ug/L	2.51	ND	90.3	50-130	NA	NA	
gamma-Chlordane	2.34	0.25	0.042	ug/L	2.51	ND	93.1	50-130	NA	NA	
Heptachlor	2.13	0.25	0.018	ug/L	2.51	ND	84.8	50-130	NA	NA	
Heptachlor Epoxide	2.36	0.25	0.038	ug/L	2.51	ND	94.0	50-130	NA	NA	
Methoxychlor	2.42	0.25	0.026	ug/L	2.51	ND	96.5	50-130	NA	NA	
Surrogate: DBC	2.27			ug/L	2.51	NA	90.5	40-130			
Surrogate: TCMX	1.48			ug/L	2.51	NA	59.1	40-120			

Matrix Spike Duplicate (B9J0191-MSD2)

Source: 0905429-01RE1

Prepared: 10/09/09 Analyzed: 10/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	2.59	0.26	0.016	ug/L	2.58	ND	101	50-130	8.59	25	
4,4'-DDE	2.54	0.26	0.016	ug/L	2.58	ND	98.5	50-130	8.81	25	
4,4'-DDT	2.54	0.26	0.020	ug/L	2.58	ND	98.7	50-130	6.89	25	
Aldrin	2.30	0.26	0.018	ug/L	2.58	ND	89.3	50-130	6.97	25	
alpha-BHC	2.42	0.26	0.021	ug/L	2.58	ND	94.0	50-130	8.51	25	
alpha-Chlordane	2.47	0.26	0.016	ug/L	2.58	ND	96.0	50-130	6.25	25	
beta-BHC	2.59	0.26	0.016	ug/L	2.58	ND	101	50-130	8.35	25	
delta-BHC	2.66	0.26	0.014	ug/L	2.58	ND	103	50-130	8.56	25	
Dieldrin	2.54	0.26	0.025	ug/L	2.58	ND	98.5	50-130	5.12	25	
Endosulfan I	2.48	0.26	0.022	ug/L	2.58	ND	96.4	50-130	6.26	25	
Endosulfan II	2.40	0.26	0.020	ug/L	2.58	ND	93.2	50-130	4.49	25	
Endosulfan Sulfate	2.45	0.26	0.020	ug/L	2.58	ND	94.9	50-130	4.83	25	
Endrin	2.58	0.26	0.021	ug/L	2.58	ND	100	50-130	6.90	25	
Endrin Aldehyde	2.61	0.26	0.041	ug/L	2.58	ND	101	50-130	5.42	25	
Endrin Ketone	2.53	0.26	0.019	ug/L	2.58	ND	98.3	50-130	6.69	25	
gamma-BHC	2.50	0.26	0.021	ug/L	2.58	ND	97.1	50-130	9.78	25	
gamma-Chlordane	2.46	0.26	0.044	ug/L	2.58	ND	95.3	50-130	4.83	25	

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Client Ref: UMore UMA-SSI/RI 23/19-0B05 SOC 325
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Work Order #: 0905516
Project Mgr: Steven J. Albrecht
Account ID: B01058

Organochlorine Pesticides - Quality Control

Batch B9J0191 - EPA 3510C

Matrix Spike Duplicate (B9J0191-MSD2)

Source: 0905429-01RE1

Prepared: 10/09/09 Analyzed: 10/14/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Heptachlor	2.28	0.26	0.018	ug/L	2.58	ND	88.5	50-130	6.80	25	
Heptachlor Epoxide	2.53	0.26	0.039	ug/L	2.58	ND	98.2	50-130	6.91	25	
Methoxychlor	2.66	0.26	0.027	ug/L	2.58	ND	103	50-130	9.32	25	
Surrogate: DBC	2.41			ug/L	2.58	NA	93.4	40-130			
Surrogate: TCMX	1.56			ug/L	2.58	NA	60.7	40-120			

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Work Order #: 0905516
Project Mgr: Steven J. Albrecht
Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9J0182 - EPA 3510C

Method Blank (B9J0182-BLK1)

Prepared: 10/09/09 Analyzed: 10/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Alachlor	<0.19	0.50	0.19	ug/L	NA	NA	NA	NA	NA	NA	
Atrazine	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Cyanazine	<0.48	0.50	0.48	ug/L	NA	NA	NA	NA	NA	NA	
Deisopropylatrazine	<0.26	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
Desethylatrazine	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Dimethenamid	<0.24	0.50	0.24	ug/L	NA	NA	NA	NA	NA	NA	
EPTC	<0.22	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Ethalfuralin	<0.47	0.50	0.47	ug/L	NA	NA	NA	NA	NA	NA	
Fonofos	<0.30	0.50	0.30	ug/L	NA	NA	NA	NA	NA	NA	
Metolachlor	<0.28	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
Metribuzin	<0.35	0.50	0.35	ug/L	NA	NA	NA	NA	NA	NA	
Pendimethalin	<0.25	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Phorate	<0.58	1.0	0.58	ug/L	NA	NA	NA	NA	NA	NA	
Prometon	<0.29	0.50	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Propachlor	<0.14	0.50	0.14	ug/L	NA	NA	NA	NA	NA	NA	
Propazine	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Simazine	<0.32	0.50	0.32	ug/L	NA	NA	NA	NA	NA	NA	
Terbufos	<0.54	1.0	0.54	ug/L	NA	NA	NA	NA	NA	NA	
Triallate	<0.34	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
Trifluralin	<0.21	0.50	0.21	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: Atrazine-d5	8.36			ug/L	10.0	NA	83.6	50-120			
Surrogate: Diazinon-d10	9.18			ug/L	10.0	NA	91.8	50-120			

Laboratory Control Sample (B9J0182-BS1)

Prepared: 10/09/09 Analyzed: 10/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	8.46	0.50	0.25	ug/L	10.0	NA	84.6	65-115	NA	NA	
Alachlor	8.52	0.50	0.19	ug/L	10.0	NA	85.2	65-115	NA	NA	
Atrazine	8.06	0.50	0.24	ug/L	10.0	NA	80.6	65-115	NA	NA	
Chlorpyrifos	7.48	0.50	0.34	ug/L	10.0	NA	74.8	65-115	NA	NA	
Cyanazine	6.89	0.50	0.48	ug/L	10.0	NA	68.9	65-115	NA	NA	
Deisopropylatrazine	6.84	0.50	0.26	ug/L	10.0	NA	68.4	65-115	NA	NA	
Desethylatrazine	7.98	0.50	0.29	ug/L	10.0	NA	79.8	65-115	NA	NA	
Dimethenamid	7.61	0.50	0.24	ug/L	10.0	NA	76.1	65-115	NA	NA	
EPTC	7.47	0.50	0.22	ug/L	10.0	NA	74.7	50-110	NA	NA	
Ethalfuralin	8.58	0.50	0.47	ug/L	10.0	NA	85.8	65-115	NA	NA	
Fonofos	8.02	0.50	0.30	ug/L	10.0	NA	80.2	55-115	NA	NA	
Metolachlor	7.90	0.50	0.28	ug/L	10.0	NA	79.0	70-120	NA	NA	
Metribuzin	8.15	0.50	0.35	ug/L	10.0	NA	81.5	70-120	NA	NA	
Pendimethalin	8.56	0.50	0.25	ug/L	10.0	NA	85.6	65-115	NA	NA	
Phorate	7.74	1.0	0.58	ug/L	10.0	NA	77.4	30-100	NA	NA	

Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0B05 SOC 325	Work Order #: 0905516
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9J0182 - EPA 3510C

Laboratory Control Sample (B9J0182-BS1)

Prepared: 10/09/09 Analyzed: 10/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prometon	7.64	0.50	0.29	ug/L	10.0	NA	76.4	70-120	NA	NA	
Propachlor	7.96	0.50	0.14	ug/L	10.0	NA	79.6	65-115	NA	NA	
Propazine	8.13	0.50	0.21	ug/L	10.0	NA	81.3	65-115	NA	NA	
Simazine	10.1	0.50	0.32	ug/L	10.0	NA	101	65-115	NA	NA	
Terbufos	7.55	1.0	0.54	ug/L	10.0	NA	75.5	30-100	NA	NA	
Triallate	7.41	0.50	0.34	ug/L	10.0	NA	74.1	65-115	NA	NA	
Trifluralin	7.87	0.50	0.21	ug/L	10.0	NA	78.7	65-115	NA	NA	
<i>Surrogate: Atrazine-d5</i>	7.92			ug/L	10.0	NA	79.2	50-120			
<i>Surrogate: Diazinon-d10</i>	7.98			ug/L	10.0	NA	79.8	50-120			

Laboratory Control Sample Duplicate (B9J0182-BSD1)

Prepared: 10/09/09 Analyzed: 10/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	7.97	0.50	0.25	ug/L	10.0	NA	79.7	65-115	5.96	25	
Alachlor	8.44	0.50	0.19	ug/L	10.0	NA	84.4	65-115	0.943	25	
Atrazine	7.96	0.50	0.24	ug/L	10.0	NA	79.6	65-115	1.25	25	
Chlorpyrifos	7.47	0.50	0.34	ug/L	10.0	NA	74.7	65-115	0.134	25	
Cyanazine	6.83	0.50	0.48	ug/L	10.0	NA	68.3	65-115	0.875	25	
Deisopropylatrazine	6.33	0.50	0.26	ug/L	10.0	NA	63.3	65-115	7.74	25	
Desethylatrazine	7.62	0.50	0.29	ug/L	10.0	NA	76.2	65-115	4.62	25	
Dimethenamid	7.79	0.50	0.24	ug/L	10.0	NA	77.9	65-115	2.34	25	
EPTC	6.58	0.50	0.22	ug/L	10.0	NA	65.8	50-110	12.7	30	
Ethalfuralin	7.85	0.50	0.47	ug/L	10.0	NA	78.5	65-115	8.89	30	
Fonofos	7.90	0.50	0.30	ug/L	10.0	NA	79.0	55-115	1.51	30	
Metolachlor	7.71	0.50	0.28	ug/L	10.0	NA	77.1	70-120	2.43	25	
Metribuzin	7.80	0.50	0.35	ug/L	10.0	NA	78.0	70-120	4.39	25	
Pendimethalin	8.22	0.50	0.25	ug/L	10.0	NA	82.2	65-115	4.05	25	
Phorate	7.58	1.0	0.58	ug/L	10.0	NA	75.8	30-100	2.09	30	
Prometon	7.69	0.50	0.29	ug/L	10.0	NA	76.9	70-120	0.652	30	
Propachlor	7.50	0.50	0.14	ug/L	10.0	NA	75.0	65-115	5.95	30	
Propazine	8.04	0.50	0.21	ug/L	10.0	NA	80.4	65-115	1.11	25	
Simazine	8.71	0.50	0.32	ug/L	10.0	NA	87.1	65-115	15.2	25	
Terbufos	7.11	1.0	0.54	ug/L	10.0	NA	71.1	30-100	6.00	30	
Triallate	7.08	0.50	0.34	ug/L	10.0	NA	70.8	65-115	4.55	25	
Trifluralin	7.63	0.50	0.21	ug/L	10.0	NA	76.3	65-115	3.10	25	
<i>Surrogate: Atrazine-d5</i>	8.26			ug/L	10.0	NA	82.6	50-120			
<i>Surrogate: Diazinon-d10</i>	8.00			ug/L	10.0	NA	80.0	50-120			

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Work Order #: 0905516
Project Mgr: Steven J. Albrecht
Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9J0182 - EPA 3510C

Matrix Spike (B9J0182-MS1)

Source: 0905516-02

Prepared: 10/09/09 Analyzed: 10/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	8.05	0.50	0.25	ug/L	10.1	ND	80.1	65-115	NA	NA	
Alachlor	9.17	0.50	0.19	ug/L	10.1	ND	91.2	65-115	NA	NA	
Atrazine	8.81	0.50	0.24	ug/L	10.1	ND	87.7	65-115	NA	NA	
Chlorpyrifos	8.18	0.50	0.34	ug/L	10.1	ND	81.4	60-115	NA	NA	
Cyanazine	7.76	0.50	0.48	ug/L	10.1	ND	77.2	65-120	NA	NA	
Deisopropylatrazine	6.60	0.50	0.26	ug/L	10.1	ND	65.7	65-115	NA	NA	
Desethylatrazine	8.37	0.50	0.29	ug/L	10.1	ND	83.3	65-115	NA	NA	
Dimethenamid	8.44	0.50	0.24	ug/L	10.1	ND	84.0	65-120	NA	NA	
EPTC	7.51	0.50	0.22	ug/L	10.1	ND	74.7	50-110	NA	NA	
Ethalfuralin	8.77	0.50	0.47	ug/L	10.1	ND	87.3	65-115	NA	NA	
Fonofos	8.53	0.50	0.30	ug/L	10.1	ND	84.9	55-115	NA	NA	
Metolachlor	8.71	0.50	0.28	ug/L	10.1	ND	86.7	65-120	NA	NA	
Metribuzin	8.61	0.50	0.35	ug/L	10.1	ND	85.7	65-120	NA	NA	
Pendimethalin	8.86	0.50	0.25	ug/L	10.1	ND	88.2	60-115	NA	NA	
Phorate	7.90	1.0	0.58	ug/L	10.1	ND	78.6	30-100	NA	NA	
Prometon	8.75	0.50	0.29	ug/L	10.1	ND	87.1	70-120	NA	NA	
Propachlor	8.24	0.50	0.14	ug/L	10.1	ND	82.0	65-115	NA	NA	
Propazine	8.12	0.50	0.21	ug/L	10.1	ND	80.8	65-115	NA	NA	
Simazine	9.86	0.50	0.32	ug/L	10.1	ND	98.1	60-115	NA	NA	
Terbufos	8.19	1.0	0.54	ug/L	10.1	ND	81.5	30-100	NA	NA	
Triallate	7.93	0.50	0.34	ug/L	10.1	ND	78.9	60-115	NA	NA	
Trifluralin	8.77	0.50	0.21	ug/L	10.1	ND	87.3	65-115	NA	NA	
Surrogate: Atrazine-d5	8.57			ug/L	10.1	NA	85.3	50-120			
Surrogate: Diazinon-d10	8.50			ug/L	10.1	NA	84.6	50-120			

Matrix Spike Duplicate (B9J0182-MSD1)

Source: 0905516-02

Prepared: 10/09/09 Analyzed: 10/12/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acetochlor	8.31	0.50	0.25	ug/L	10.1	ND	82.7	65-115	3.19	30	
Alachlor	8.44	0.50	0.19	ug/L	10.1	ND	84.0	65-115	8.22	30	
Atrazine	8.37	0.50	0.24	ug/L	10.1	ND	83.3	65-115	5.15	30	
Chlorpyrifos	7.83	0.50	0.34	ug/L	10.1	ND	77.9	60-115	4.39	30	
Cyanazine	7.69	0.50	0.48	ug/L	10.1	ND	76.5	65-120	0.911	30	
Deisopropylatrazine	6.09	0.50	0.26	ug/L	10.1	ND	60.6	65-115	8.08	30	
Desethylatrazine	8.15	0.50	0.29	ug/L	10.1	ND	81.1	65-115	2.68	30	
Dimethenamid	8.13	0.50	0.24	ug/L	10.1	ND	80.9	65-120	3.76	30	
EPTC	7.62	0.50	0.22	ug/L	10.1	ND	75.8	50-110	1.46	30	
Ethalfuralin	8.88	0.50	0.47	ug/L	10.1	ND	88.4	65-115	1.25	30	
Fonofos	8.21	0.50	0.30	ug/L	10.1	ND	81.7	55-115	3.84	30	
Metolachlor	8.30	0.50	0.28	ug/L	10.1	ND	82.6	65-120	4.84	30	
Metribuzin	8.33	0.50	0.35	ug/L	10.1	ND	82.9	65-120	3.32	30	
Pendimethalin	8.99	0.50	0.25	ug/L	10.1	ND	89.5	60-115	1.46	30	
Phorate	7.90	1.0	0.58	ug/L	10.1	ND	78.6	30-100	0.00	30	



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 Minneapolis, MN 55438
 952.995.2000 Phone
 952.995.2020 Fax

Barr Engineering Company	Client Ref: UMore UMA-SSI/RI 23/19-0B05 SOC 325	Work Order #: 0905516
4700 West 77th Street	Client Contact: Ms. Kelly Neppl	Project Mgr: Steven J. Albrecht
Minneapolis, MN 55435-4803	PO Number:	Account ID: B01058

Neutral Extractable Pesticides (MDA List 1) - Quality Control

Batch B9J0182 - EPA 3510C

Matrix Spike Duplicate (B9J0182-MSD1)				Source: 0905516-02			Prepared: 10/09/09		Analyzed: 10/12/09			
Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Prometon	8.01	0.50	0.29	ug/L	10.1	ND	79.7	70-120	8.87	30		
Propachlor	8.14	0.50	0.14	ug/L	10.1	ND	81.0	65-115	1.23	30		
Propazine	8.27	0.50	0.21	ug/L	10.1	ND	82.3	65-115	1.84	30		
Simazine	9.52	0.50	0.32	ug/L	10.1	ND	94.7	60-115	3.53	30		
Terbufos	7.65	1.0	0.54	ug/L	10.1	ND	76.1	30-100	6.85	30		
Triallate	7.62	0.50	0.34	ug/L	10.1	ND	75.8	60-115	4.01	30		
Trifluralin	7.74	0.50	0.21	ug/L	10.1	ND	77.0	65-115	12.5	30		
<i>Surrogate: Atrazine-d5</i>	8.42			ug/L	10.1	NA	83.8	50-120				
<i>Surrogate: Diazinon-d10</i>	8.16			ug/L	10.1	NA	81.2	50-120				

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-0B05 SOC 325
Client Contact: Ms. Kelly Neppl
PO Number:

Work Order #: 0905516
Project Mgr: Steven J. Albrecht
Account ID: B01058

Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9J0172 - EPA 3510C

Method Blank (B9J0172-BLK1)

Prepared: 10/08/09 Analyzed: 10/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	<0.50	0.50	0.31	ug/L	NA	NA	NA	NA	NA	NA	
2,4,5-T.P.	<0.50	0.50	0.28	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D	<0.50	0.50	0.26	ug/L	NA	NA	NA	NA	NA	NA	
2,4-D.B.	<0.50	0.50	0.15	ug/L	NA	NA	NA	NA	NA	NA	
Bentazon	<0.50	0.50	0.22	ug/L	NA	NA	NA	NA	NA	NA	
Dicamba	<0.50	0.50	0.38	ug/L	NA	NA	NA	NA	NA	NA	
Dinoseb	<0.50	0.50	0.34	ug/L	NA	NA	NA	NA	NA	NA	
M.C.P.A.	<0.30	0.30	0.29	ug/L	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	<0.50	0.50	0.39	ug/L	NA	NA	NA	NA	NA	NA	
Picloram	<0.50	0.50	0.25	ug/L	NA	NA	NA	NA	NA	NA	
Triclopyr	<0.50	0.50	0.41	ug/L	NA	NA	NA	NA	NA	NA	
Surrogate: D.C.A.A.	4.04			ug/L	5.00	NA	80.8	65-130			

Laboratory Control Sample (B9J0172-BS1)

Prepared: 10/08/09 Analyzed: 10/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	3.78	0.50	0.31	ug/L	5.00	NA	75.6	70-130	NA	NA	
2,4,5-T.P.	4.07	0.50	0.28	ug/L	5.00	NA	81.4	70-130	NA	NA	
2,4-D	3.95	0.50	0.26	ug/L	5.00	NA	79.0	70-130	NA	NA	
2,4-D.B.	4.40	0.50	0.15	ug/L	5.00	NA	88.0	75-140	NA	NA	
Bentazon	4.18	0.50	0.22	ug/L	5.00	NA	83.6	75-135	NA	NA	
Dicamba	3.85	0.50	0.38	ug/L	5.00	NA	77.0	65-130	NA	NA	
Dinoseb	2.66	0.50	0.34	ug/L	5.00	NA	53.2	40-125	NA	NA	
M.C.P.A.	3.95	0.30	0.29	ug/L	5.00	NA	79.0	70-130	NA	NA	
Pentachlorophenol	3.76	0.50	0.39	ug/L	5.00	NA	75.2	70-120	NA	NA	
Picloram	3.11	0.50	0.25	ug/L	5.00	NA	62.2	60-125	NA	NA	
Triclopyr	4.22	0.50	0.41	ug/L	5.00	NA	84.4	75-125	NA	NA	
Surrogate: D.C.A.A.	4.12			ug/L	5.00	NA	82.4	65-130			

Laboratory Control Sample Duplicate (B9J0172-BSD1)

Prepared: 10/08/09 Analyzed: 10/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	3.75	0.50	0.31	ug/L	5.00	NA	75.0	70-130	0.797	20	
2,4,5-T.P.	3.89	0.50	0.28	ug/L	5.00	NA	77.8	70-130	4.52	20	
2,4-D	3.77	0.50	0.26	ug/L	5.00	NA	75.4	70-130	4.66	20	
2,4-D.B.	4.31	0.50	0.15	ug/L	5.00	NA	86.2	75-140	2.07	20	
Bentazon	4.32	0.50	0.22	ug/L	5.00	NA	86.4	75-135	3.29	20	
Dicamba	3.75	0.50	0.38	ug/L	5.00	NA	75.0	65-130	2.63	20	
Dinoseb	2.43	0.50	0.34	ug/L	5.00	NA	48.6	40-125	9.04	20	
M.C.P.A.	3.61	0.30	0.29	ug/L	5.00	NA	72.2	70-130	8.99	20	
Pentachlorophenol	3.72	0.50	0.39	ug/L	5.00	NA	74.4	70-120	1.07	20	
Picloram	3.24	0.50	0.25	ug/L	5.00	NA	64.8	60-125	4.09	20	
Triclopyr	3.90	0.50	0.41	ug/L	5.00	NA	78.0	75-125	7.88	20	

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435-4803	Client Ref: UMore UMA-SSI/RI 23/19-0B05 SOC 325 Client Contact: Ms. Kelly Neppel PO Number:	Work Order #: 0905516 Project Mgr: Steven J. Albrecht Account ID: B01058
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Acid Extractable Pesticides (MDA List 2) - Quality Control

Batch B9J0172 - EPA 3510C

Laboratory Control Sample Duplicate (B9J0172-BSD1)

Prepared: 10/08/09 Analyzed: 10/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: D.C.A.A.	4.05			ug/L	5.00	NA	81.0	65-130			

Matrix Spike (B9J0172-MS1)

Source: 0905516-01

Prepared: 10/08/09 Analyzed: 10/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	4.56	0.50	0.31	ug/L	5.03	ND	90.8	70-140	NA	NA	
2,4,5-T.P.	4.28	0.50	0.28	ug/L	5.03	ND	85.2	70-135	NA	NA	
2,4-D	4.04	0.50	0.26	ug/L	5.03	ND	80.4	70-140	NA	NA	
2,4-D.B.	4.63	0.50	0.15	ug/L	5.03	ND	92.2	75-140	NA	NA	
Bentazon	4.15	0.50	0.22	ug/L	5.03	ND	82.6	70-140	NA	NA	
Dicamba	3.86	0.50	0.38	ug/L	5.03	ND	76.8	65-140	NA	NA	
Dinoseb	3.35	0.50	0.34	ug/L	5.03	ND	66.6	40-130	NA	NA	
M.C.P.A.	4.26	0.30	0.29	ug/L	5.03	ND	84.8	60-140	NA	NA	
Pentachlorophenol	3.69	0.50	0.39	ug/L	5.03	ND	73.4	70-125	NA	NA	
Picloram	3.39	0.50	0.25	ug/L	5.03	ND	67.4	45-140	NA	NA	
Triclopyr	4.17	0.50	0.41	ug/L	5.03	ND	83.0	75-125	NA	NA	
Surrogate: D.C.A.A.	4.34			ug/L	5.03	NA	86.4	65-130			

Matrix Spike Duplicate (B9J0172-MSD1)

Source: 0905516-01

Prepared: 10/08/09 Analyzed: 10/09/09

Analyte	Result	MRL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,5-T	3.87	0.50	0.31	ug/L	5.03	ND	77.0	70-140	16.4	25	
2,4,5-T.P.	3.95	0.50	0.28	ug/L	5.03	ND	78.6	70-135	8.06	25	
2,4-D	3.84	0.50	0.26	ug/L	5.03	ND	76.4	70-140	5.10	25	
2,4-D.B.	4.08	0.50	0.15	ug/L	5.03	ND	81.2	75-140	12.7	25	
Bentazon	3.82	0.50	0.22	ug/L	5.03	ND	76.0	70-140	8.32	25	
Dicamba	3.88	0.50	0.38	ug/L	5.03	ND	77.2	65-140	0.519	25	
Dinoseb	2.79	0.50	0.34	ug/L	5.03	ND	55.6	40-130	18.0	25	
M.C.P.A.	3.82	0.30	0.29	ug/L	5.03	ND	76.0	60-140	10.9	25	
Pentachlorophenol	3.61	0.50	0.39	ug/L	5.03	ND	71.8	70-125	2.20	25	
Picloram	3.18	0.50	0.25	ug/L	5.03	ND	63.2	45-140	6.43	25	
Triclopyr	3.75	0.50	0.41	ug/L	5.03	ND	74.6	75-125	10.7	25	
Surrogate: D.C.A.A.	4.18			ug/L	5.03	NA	83.2	65-130			

Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Client Ref: UMore UMA-SSI/RI 23/19-0B05 SOC 325
Client Contact: Ms. Kelly Neppi
PO Number:

Work Order #: 0905516
Project Mgr: Steven J. Albrecht
Account ID: B01058

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Chain of Custody				Number of Containers/Preservative														COC _____ of _____									
BARR 4700 West 77th Street Minneapolis, MN 55435-4803 (952) 832-2600																		Project Manager: <u>JME</u>									
Project Number <u>23/19-0B05.SOC.325</u>																		Project Contact: <u>KJN</u>									
Project Name <u>No 28037</u>																		Sampled by: <u>KSJ</u>									
Sample Identification	Collection		Matrix		Type	OC	Volatile Organics (Pres.)*1	Semivolatile Organics*2	Dissolved Metals (HNO ₃)	Total Metals (HNO ₃)	General (Unpreserved)*3	Cyanide (NaOH)	Nutrients (H ₂ SO ₄)*4	Oil and Grease (H ₂ SO ₄)	Sulfide (Zn Acetate)	Methane	Bacteria (Na ₂ S ₂ O ₃)	DRO (HCl)	VOCs (2-oz tared MeOH)*7	GRO, BTEX (2-oz tared MeOH)*7	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.)*2	% Moisture (plastic vial, unpres.)	Total No. of Containers	Remarks: <u>TABLE 1</u>	
	Date	Time	Water	Soil																							Grab
1. <u>MW-E2-012</u>	<u>10/2/09</u>	<u>1140</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																						<u>6</u>	<u>6 Ag List 1 & 2, OC PEST.</u>
2. <u>M-1</u>	<u>↓</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																					<u>6</u>	<u>↓ ↓</u>
3.																											
4.																											
5.																											
6.																											
7.																											
8.																											
9.																											
10.																											
11.																											
12.																											<u>COOLER #1: 2.9°C + 1IC TAB</u>
																											<u>#2: 2.1°C + 1IC + TB</u>

Common Parameter/Container - Preservation Key	Relinquished By: <u>Kelly Neppi</u>	On Ice? <u>N</u>	Date: <u>10/2/09</u>	Time:	Received by: <u>che</u>	Date: <u>10/2/09</u>	Time: <u>13/5</u>
*1 - Volatile Organics = BTEX, GRQ TPH, Full List	Relinquished By:	On Ice? <u>Y</u>	Date:	Time:	Received by:	Date:	Time:
*2 - Semivolatile Organics = PAHs, PCB, Dioxin, Full List, Herbicide/Pesticide/PCBs	Samples Shipped Via: <input type="checkbox"/> Air Freight <input type="checkbox"/> Federal Express <input checked="" type="checkbox"/> <u>Sampler</u>	Air Bill Number:					
*3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate	Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator						
*4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TRN							

HIL6023D/CHEM/US/Chain of Custody Form RLD Rev 07/01/06



88 Empire Drive
St Paul, MN 55103
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Fax: 651-642-1239

June 18, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0902716
RE: 23/19-0B05.07

Enclosed are the results of analyses for samples received by the laboratory on 06/05/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
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Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B0507SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902716 Date Reported: 06/18/09
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC6-FB1	0902716-01	Water	06/04/09 10:30	06/05/09 11:15

Shipping Container Information

Default Cooler	Temperature (°C):	
Received on ice: Yes	Temperature blank was not present	Received on ice pack: No
Received on melt water: No	Ambient: No	Acceptable (IH/ISO only): No
Custody seals: No		

Case Narrative:

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B0507SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902716 Date Reported: 06/18/09
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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC6-FB1 (0902716-01) Water Sampled: 06/04/09 10:30 Received: 06/05/09 11:15										
4,4'-DDD	<0.034	0.37	0.034	ug/L	1	B9F0905	06/09/09	06/09/09	EPA 8081A	
4,4'-DDE	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
4,4'-DDT	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
a-Chlordane	<0.035	0.37	0.035	ug/L	1	"	"	"	"	
Aldrin	<0.036	0.37	0.036	ug/L	1	"	"	"	"	
alpha-BHC	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
beta-BHC	<0.049	0.37	0.049	ug/L	1	"	"	"	"	
delta-BHC	<0.043	0.37	0.043	ug/L	1	"	"	"	"	
Dieldrin	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
Endosulfan I	<0.037	0.37	0.037	ug/L	1	"	"	"	"	
Endosulfan II	<0.038	0.37	0.038	ug/L	1	"	"	"	"	
Endosulfan sulfate	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
Endrin	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
Endrin aldehyde	<0.047	0.37	0.047	ug/L	1	"	"	"	"	
Endrin ketone	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
gamma-BHC (Lindane)	<0.044	0.37	0.044	ug/L	1	"	"	"	"	
gamma-Chlordane	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
Heptachlor	<0.036	0.37	0.036	ug/L	1	"	"	"	"	
Heptachlor epoxide	<0.038	0.37	0.038	ug/L	1	"	"	"	"	
Methoxychlor	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
Toxaphene	<0.18	0.93	0.18	ug/L	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	90.5							06/09/09	"	80.6-122 %
Surrogate: Tetrachloro-meta-xylene	85.5							"	"	71.7-111 %

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B0507SOC350
 Project Manager: Ms. Kelly Nepl

Work Order #: 0902716
 Date Reported: 06/18/09

PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F0905 - EPA 3510C (Sep Funnel)

Blank (B9F0905-BLK1)

Prepared & Analyzed: 06/09/09

4,4'-DDD	< 0.037	0.40	0.037	ug/L							
4,4'-DDE	< 0.037	0.40	0.037	ug/L							
4,4'-DDT	< 0.042	0.40	0.042	ug/L							
a-Chlordane	< 0.038	0.40	0.038	ug/L							
Aldrin	< 0.039	0.40	0.039	ug/L							
alpha-BHC	< 0.045	0.40	0.045	ug/L							
beta-BHC	< 0.053	0.40	0.053	ug/L							
delta-BHC	< 0.046	0.40	0.046	ug/L							
Dieldrin	< 0.037	0.40	0.037	ug/L							
Endosulfan I	< 0.040	0.40	0.040	ug/L							
Endosulfan II	< 0.041	0.40	0.041	ug/L							
Endosulfan sulfate	< 0.045	0.40	0.045	ug/L							
Endrin	< 0.042	0.40	0.042	ug/L							
Endrin aldehyde	< 0.051	0.40	0.051	ug/L							
Endrin ketone	< 0.042	0.40	0.042	ug/L							
gamma-BHC (Lindane)	< 0.047	0.40	0.047	ug/L							
gamma-Chlordane	< 0.037	0.40	0.037	ug/L							
Heptachlor	< 0.039	0.40	0.039	ug/L							
Heptachlor epoxide	< 0.041	0.40	0.041	ug/L							
Methoxychlor	< 0.045	0.40	0.045	ug/L							
Toxaphene	< 0.19	1.0	0.19	ug/L							
Surrogate: Decachlorobiphenyl	1.02			ug/L	1.00		102	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.725			ug/L	1.00		72.5	71.7-111			

LCS (B9F0905-BS1)

Prepared & Analyzed: 06/09/09

4,4'-DDD	1.20	0.40	0.037	ug/L	1.25		96.0	70-130			
4,4'-DDE	1.18	0.40	0.037	ug/L	1.25		94.4	70-130			
4,4'-DDT	1.22	0.40	0.042	ug/L	1.25		97.6	70-130			
a-Chlordane	1.14	0.40	0.038	ug/L	1.25		90.8	70-130			
Aldrin	1.10	0.40	0.039	ug/L	1.25		88.4	70-130			
alpha-BHC	1.12	0.40	0.045	ug/L	1.25		90.0	70-130			
beta-BHC	1.11	0.40	0.053	ug/L	1.25		88.8	70-130			
delta-BHC	1.14	0.40	0.046	ug/L	1.25		91.2	70-130			
Dieldrin	1.14	0.40	0.037	ug/L	1.25		90.8	70-130			
Endosulfan I	1.14	0.40	0.040	ug/L	1.25		90.8	70-130			
Endosulfan II	1.15	0.40	0.041	ug/L	1.25		92.0	70-130			
Endosulfan sulfate	1.14	0.40	0.045	ug/L	1.25		90.8	70-130			
Endrin	1.21	0.40	0.042	ug/L	1.25		96.8	70-130			
Endrin aldehyde	1.16	0.40	0.051	ug/L	1.25		92.8	70-130			
Endrin ketone	1.17	0.40	0.042	ug/L	1.25		93.6	70-130			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B0507SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902716 Date Reported: 06/18/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F0905 - EPA 3510C (Sep Funnel)

LCS (B9F0905-BS1)

Prepared & Analyzed: 06/09/09

gamma-BHC (Lindane)	1.14	0.40	0.047	ug/L	1.25		90.8	70-130			
gamma-Chlordane	1.12	0.40	0.037	ug/L	1.25		89.2	70-130			
Heptachlor	1.10	0.40	0.039	ug/L	1.25		88.4	70-130			
Heptachlor epoxide	1.14	0.40	0.041	ug/L	1.25		91.6	70-130			
Methoxychlor	1.23	0.40	0.045	ug/L	1.25		98.4	70-130			
Surrogate: Decachlorobiphenyl	1.00			ug/L	1.00		100	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.830			ug/L	1.00		83.0	71.7-111			

Matrix Spike (B9F0905-MS1)

Source: 0902733-02

Prepared & Analyzed: 06/09/09

4,4'-DDD	1.05	0.37	0.034	ug/L	1.16	<0.37	90.4	70-130			
4,4'-DDE	1.03	0.37	0.034	ug/L	1.16	<0.37	89.2	70-130			
4,4'-DDT	1.11	0.37	0.039	ug/L	1.16	<0.37	96.0	70-130			
a-Chlordane	0.995	0.37	0.035	ug/L	1.16	<0.37	86.0	70-130			
Aldrin	0.986	0.37	0.036	ug/L	1.16	<0.37	85.2	70-130			
alpha-BHC	0.995	0.37	0.042	ug/L	1.16	<0.37	86.0	70-130			
beta-BHC	0.963	0.37	0.049	ug/L	1.16	<0.37	83.2	70-130			
delta-BHC	1.01	0.37	0.043	ug/L	1.16	<0.37	87.6	70-130			
Dieldrin	0.995	0.37	0.034	ug/L	1.16	<0.37	86.0	70-130			
Endosulfan I	1.00	0.37	0.037	ug/L	1.16	<0.37	86.4	70-130			
Endosulfan II	1.02	0.37	0.038	ug/L	1.16	<0.37	88.0	70-130			
Endosulfan sulfate	1.01	0.37	0.042	ug/L	1.16	<0.37	87.6	70-130			
Endrin	1.07	0.37	0.039	ug/L	1.16	<0.37	92.8	70-130			
Endrin aldehyde	1.02	0.37	0.047	ug/L	1.16	<0.37	88.4	70-130			
Endrin ketone	1.02	0.37	0.039	ug/L	1.16	<0.37	88.0	70-130			
gamma-BHC (Lindane)	0.995	0.37	0.044	ug/L	1.16	<0.37	86.0	70-130			
gamma-Chlordane	0.981	0.37	0.034	ug/L	1.16	<0.37	84.8	70-130			
Heptachlor	1.00	0.37	0.036	ug/L	1.16	<0.37	86.4	70-130			
Heptachlor epoxide	1.00	0.37	0.038	ug/L	1.16	<0.37	86.4	70-130			
Methoxychlor	1.13	0.37	0.042	ug/L	1.16	<0.37	97.6	70-130			
Surrogate: Decachlorobiphenyl	0.866			ug/L	0.926		93.5	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.778			ug/L	0.926		84.0	71.7-111			

Matrix Spike Dup (B9F0905-MSD1)

Source: 0902733-02

Prepared & Analyzed: 06/09/09

4,4'-DDD	1.07	0.37	0.034	ug/L	1.16	<0.37	92.8	70-130	2.62	25.4	
4,4'-DDE	1.08	0.37	0.034	ug/L	1.16	<0.37	93.6	70-130	4.81	31.2	
4,4'-DDT	1.18	0.37	0.039	ug/L	1.16	<0.37	102	70-130	5.67	25.2	
a-Chlordane	1.04	0.37	0.035	ug/L	1.16	<0.37	90.0	70-130	4.55	25	
Aldrin	1.05	0.37	0.036	ug/L	1.16	<0.37	90.4	70-130	5.92	26.2	
alpha-BHC	1.05	0.37	0.042	ug/L	1.16	<0.37	90.8	70-130	5.43	19.2	
beta-BHC	1.02	0.37	0.049	ug/L	1.16	<0.37	88.4	70-130	6.06	23.2	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B0507SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902716 Date Reported: 06/18/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F0905 - EPA 3510C (Sep Funnel)											
Matrix Spike Dup (B9F0905-MSD1)		Source: 0902733-02				Prepared & Analyzed: 06/09/09					
delta-BHC	1.08	0.37	0.043	ug/L	1.16	<0.37	93.2	70-130	6.19	23.2	
Dieldrin	1.04	0.37	0.034	ug/L	1.16	<0.37	90.0	70-130	4.55	26.2	
Endosulfan I	1.05	0.37	0.037	ug/L	1.16	<0.37	90.8	70-130	4.97	27.8	
Endosulfan II	1.06	0.37	0.038	ug/L	1.16	<0.37	91.6	70-130	4.01	21.9	
Endosulfan sulfate	1.06	0.37	0.042	ug/L	1.16	<0.37	91.6	70-130	4.46	23.2	
Endrin	1.12	0.37	0.039	ug/L	1.16	<0.37	96.8	70-130	4.22	24.7	
Endrin aldehyde	1.07	0.37	0.047	ug/L	1.16	<0.37	92.4	70-130	4.42	22.5	
Endrin ketone	1.06	0.37	0.039	ug/L	1.16	<0.37	91.6	70-130	4.01	18.8	
gamma-BHC (Lindane)	1.06	0.37	0.044	ug/L	1.16	<0.37	91.6	70-130	6.31	20.1	
gamma-Chlordane	1.03	0.37	0.034	ug/L	1.16	<0.37	89.2	70-130	5.06	23.1	
Heptachlor	1.07	0.37	0.036	ug/L	1.16	<0.37	92.4	70-130	6.71	24.3	
Heptachlor epoxide	1.05	0.37	0.038	ug/L	1.16	<0.37	90.8	70-130	4.97	28.7	
Methoxychlor	1.19	0.37	0.042	ug/L	1.16	<0.37	103	70-130	5.19	20.6	
Surrogate: Decachlorobiphenyl	0.866			ug/L	0.926		93.5	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.870			ug/L	0.926		94.0	71.7-111			

Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Project: 23/19-0B05.07
Project Number: 23/19-0B0507SOC350
Project Manager: Ms. Kelly Nepl

Work Order #: 0902716
Date Reported: 06/18/09

Notes and Definitions

< Less than value listed
dry Sample results reported on a dry weight basis
NA Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL Method Detection Limit
RL Reporting Limit
RPD Relative Percent Difference
LCS Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS Matrix Spike = Laboratory Fortified Matrix (LFM)

H-RLG512DFORMS(Chain of Custody Form) FLG Rev. 07/01/05

0902716

Chain of Custody

4700 West 77th Street
Minneapolis, MN 55435-8803
(952) 832-2600

BARR

Project Number

23 / 19.08.05.07 SOC 350

Project Name

UMP PAH Env. Investigation No 28199

Sample Identification	Collection		Matrix Type		
	Date	Time	Water	Soil	Grab Comp.
1. SOC6-FBI	6-4-01	1030	X		X
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					

01

Number of Containers/Preservative	Water	Soil	Total No. Of Containers	COC	
				of	
				Project Manager: <u>Jim Aiken</u>	
				Project Contact: <u>Marta Nelson</u>	
				Sampled by: <u>Jim Eiden</u>	
				Laboratory: <u>Legend</u>	
				Remarks:	

Common Parameter/Container - Preservation Key

- *1 - Volatile Organics = BTEX, GRQ, TPH, Full List
- *2 - Semivolatile Organics = PAHs, PCB, Dioxins, Full List, Herbicide/Pesticide/PCBs
- *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
- *4 - Nutrients = COD, TOC, Phosphorus, Ammonia Nitrogen, TKN

Retinquired By: YSC

On Ice? N

Date

Received by: Jim Aiken

Date

Time

Retinquired By:

On Ice? N

Date

Received by: Jim Aiken

Date

Time

Sample Shipped Via: Air Freight Federal Express Sampler

Air Bill Number:

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordination

no blank, NR



88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

July 28, 2009

REVISION

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0902742
RE: 23/19-0B05.07

This is a revised report. The details of the revision are listed in the case narrative on the following page.

Enclosed are the results of analyses for samples received by the laboratory on 06/05/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of the original report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Erica Nastrom
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Report Reviewer
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Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppel	Work Order #: 0902742 Date Reported: 07/28/09
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC2-TT1-1.5'	0902742-01	Soil	06/05/09 09:00	06/05/09 16:15
SOC2-TT2-0.5'-1.5'	0902742-02	Soil	06/05/09 10:45	06/05/09 16:15
SOC2-TT3-0.5'-1'	0902742-03	Soil	06/05/09 11:45	06/05/09 16:15
SOC2-TT4-0.5'-1'	0902742-04	Soil	06/05/09 13:30	06/05/09 16:15
SOC2-TT5-0.5'-1'	0902742-05	Soil	06/05/09 14:30	06/05/09 16:15

Shipping Container Information

Default Cooler Temperature (°C): 9.6

Received on ice: Yes Temperature blank was present Received on ice pack: No
 Received on melt water: No Ambient: No Acceptable (IH/ISO only): No
 Custody seals: No

Case Narrative:

Recoveries for the 8270 SVOC compounds 1,2,4-trichlorobenzene in the batch B9F1109 MS and pentachlorophenol in the MSD were above laboratory limits. All spike compounds and surrogates were within limits in the batch method blank and LCS. The MS/MSD source sample was not associated with this work order.

This report was revised on 7/28/09 to correct the ICP lead results for samples SOC2-TT2-0.5'-1.5' and SOC2-TT3-0.5'-1'.

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC2-TT1-1.5' (0902742-01) Soil Sampled: 06/05/09 09:00 Received: 06/05/09 16:15										
Antimony	<0.60	0.60	0.0065	mg/kg dry	1	B9F1513	06/15/09	06/15/09	EPA 6010B	
Arsenic	7.2	0.60	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	0.51	0.30	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	0.52	0.30	0.030	mg/kg dry	1	"	"	"	"	
Chromium	19	0.60	0.014	mg/kg dry	1	"	"	"	"	
Copper	13	1.2	0.083	mg/kg dry	1	"	"	"	"	
Lead	13	1.2	0.040	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0037	mg/kg dry	1	B9F1111	06/11/09	06/15/09	EPA 7471A	
Nickel	15	0.60	0.017	mg/kg dry	1	B9F1513	06/15/09	06/15/09	EPA 6010B	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Silver	<0.30	0.30	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.4	2.4	0.15	mg/kg dry	1	"	"	"	"	
Zinc	70	1.2	0.26	mg/kg dry	1	"	"	"	"	

SOC2-TT2-0.5'-1.5' (0902742-02) Soil Sampled: 06/05/09 10:45 Received: 06/05/09 16:15										
Antimony	<0.51	0.51	0.0056	mg/kg dry	1	B9F1513	06/15/09	06/15/09	EPA 6010B	
Arsenic	1.2	0.51	0.10	mg/kg dry	1	"	"	"	"	
Beryllium	<0.26	0.26	0.011	mg/kg dry	1	"	"	"	"	
Cadmium	<0.26	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chromium	6.2	0.51	0.012	mg/kg dry	1	"	"	"	"	
Copper	5.9	1.0	0.071	mg/kg dry	1	"	"	"	"	
Lead	1.0	1.0	0.035	mg/kg dry	1	"	"	"	"	
Mercury	<0.10	0.10	0.0032	mg/kg dry	1	B9F1111	06/11/09	06/15/09	EPA 7471A	
Nickel	6.3	0.51	0.014	mg/kg dry	1	B9F1513	06/15/09	06/15/09	EPA 6010B	
Selenium	<1.0	1.0	0.11	mg/kg dry	1	"	"	"	"	
Silver	<0.26	0.26	0.0092	mg/kg dry	1	"	"	"	"	
Thallium	<2.0	2.0	0.13	mg/kg dry	1	"	"	"	"	
Zinc	10	1.0	0.22	mg/kg dry	1	"	"	"	"	

SOC2-TT3-0.5'-1' (0902742-03) Soil Sampled: 06/05/09 11:45 Received: 06/05/09 16:15										
Antimony	<0.59	0.59	0.0065	mg/kg dry	1	B9F1513	06/15/09	06/15/09	EPA 6010B	
Arsenic	6.4	0.59	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	0.37	0.29	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	1.8	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chromium	46	0.59	0.014	mg/kg dry	1	"	"	"	"	
Copper	38	1.2	0.082	mg/kg dry	1	"	"	"	"	
Lead	21	1.2	0.040	mg/kg dry	1	"	"	"	"	
Mercury	0.12	0.12	0.0036	mg/kg dry	1	B9F1111	06/11/09	06/15/09	EPA 7471A	
Nickel	19	0.59	0.016	mg/kg dry	1	B9F1513	06/15/09	06/15/09	EPA 6010B	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC2-TT3-0.5'-1' (0902742-03) Soil Sampled: 06/05/09 11:45 Received: 06/05/09 16:15										
Selenium	<1.2	1.2	0.13	mg/kg dry	1	B9F1513	06/15/09	06/15/09	EPA 6010B	
Silver	1.4	0.29	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.4	2.4	0.15	mg/kg dry	1	"	"	"	"	
Zinc	83	1.2	0.26	mg/kg dry	1	"	"	"	"	

SOC2-TT4-0.5'-1' (0902742-04) Soil Sampled: 06/05/09 13:30 Received: 06/05/09 16:15										
Antimony	<0.59	0.59	0.0065	mg/kg dry	1	B9F1513	06/15/09	06/15/09	EPA 6010B	
Arsenic	7.4	0.59	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	0.46	0.29	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	0.80	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chromium	27	0.59	0.014	mg/kg dry	1	"	"	"	"	
Copper	33	1.2	0.082	mg/kg dry	1	"	"	"	"	
Lead	16	1.2	0.040	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0036	mg/kg dry	1	B9F1111	06/11/09	06/15/09	EPA 7471A	
Nickel	17	0.59	0.016	mg/kg dry	1	B9F1513	06/15/09	06/15/09	EPA 6010B	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Silver	0.33	0.29	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.4	2.4	0.15	mg/kg dry	1	"	"	"	"	
Zinc	66	1.2	0.26	mg/kg dry	1	"	"	"	"	

SOC2-TT5-0.5'-1' (0902742-05) Soil Sampled: 06/05/09 14:30 Received: 06/05/09 16:15										
Antimony	<0.58	0.58	0.0064	mg/kg dry	1	B9F1513	06/15/09	06/15/09	EPA 6010B	
Arsenic	7.0	0.58	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	0.47	0.29	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	0.35	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chromium	19	0.58	0.014	mg/kg dry	1	"	"	"	"	
Copper	11	1.2	0.081	mg/kg dry	1	"	"	"	"	
Lead	12	1.2	0.040	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0036	mg/kg dry	1	B9F1111	06/11/09	06/15/09	EPA 7471A	
Nickel	14	0.58	0.016	mg/kg dry	1	B9F1513	06/15/09	06/15/09	EPA 6010B	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Silver	<0.29	0.29	0.010	mg/kg dry	1	"	"	"	"	
Thallium	<2.3	2.3	0.15	mg/kg dry	1	"	"	"	"	
Zinc	57	1.2	0.26	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC2-TT1-1.5' (0902742-01) Soil Sampled: 06/05/09 09:00 Received: 06/05/09 16:15										
% Solids	84			%	1	B9F1518	06/15/09	06/16/09	% calculation	
SOC2-TT2-0.5'-1.5' (0902742-02) Soil Sampled: 06/05/09 10:45 Received: 06/05/09 16:15										
% Solids	98			%	1	B9F1518	06/15/09	06/16/09	% calculation	
SOC2-TT3-0.5'-1' (0902742-03) Soil Sampled: 06/05/09 11:45 Received: 06/05/09 16:15										
% Solids	85			%	1	B9F1518	06/15/09	06/16/09	% calculation	
SOC2-TT4-0.5'-1' (0902742-04) Soil Sampled: 06/05/09 13:30 Received: 06/05/09 16:15										
% Solids	85			%	1	B9F1518	06/15/09	06/16/09	% calculation	
SOC2-TT5-0.5'-1' (0902742-05) Soil Sampled: 06/05/09 14:30 Received: 06/05/09 16:15										
% Solids	86			%	1	B9F1518	06/15/09	06/16/09	% calculation	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC2-TT1-1.5' (0902742-01) Soil Sampled: 06/05/09 09:00 Received: 06/05/09 16:15

1,2,4-Trichlorobenzene	<0.032	0.39	0.032	mg/kg dry	1	B9F1109	06/11/09	06/12/09	EPA 8270C	
1,2-Dichlorobenzene	<0.030	0.39	0.030	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.045	0.80	0.045	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.029	0.80	0.029	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.042	0.80	0.042	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.042	0.80	0.042	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.80	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.069	0.80	0.069	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.051	0.80	0.051	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.023	0.39	0.023	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.023	0.39	0.023	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.045	0.80	0.045	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.042	0.80	0.042	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.043	0.80	0.043	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.46	1.9	0.46	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.088	0.80	0.088	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.048	0.80	0.048	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.80	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.032	0.80	0.032	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.80	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.80	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.030	0.39	0.030	mg/kg dry	1	"	"	"	"	
Benzidine	<0.86	3.0	0.86	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.032	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.032	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.036	0.39	0.036	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC2-TT1-1.5' (0902742-01) Soil Sampled: 06/05/09 09:00 Received: 06/05/09 16:15										
Benzo (k) fluoranthene	<0.037	0.39	0.037	mg/kg dry	1	B9F1109	06/11/09	06/12/09	EPA 8270C	
Benzoic acid	0.37	0.39	0.069	mg/kg dry	1	"	"	"	"	J
Benzyl alcohol	<0.14	0.80	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.023	0.39	0.023	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.018	0.39	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.044	0.39	0.044	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.030	0.39	0.030	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.39	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.049	0.39	0.049	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.035	0.39	0.035	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.036	0.39	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.030	0.39	0.030	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.80	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.023	0.39	0.023	mg/kg dry	1	"	"	"	"	
Phenol	<0.068	0.80	0.068	mg/kg dry	1	"	"	"	"	
Pyrene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	73.3			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	75.3			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	66.7			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	72.5			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	72.8			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	72.0			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC2-TT2-0.5'-1.5' (0902742-02) Soil Sampled: 06/05/09 10:45 Received: 06/05/09 16:15

1,2,4-Trichlorobenzene	<0.028	0.34	0.028	mg/kg dry	1	B9F1109	06/11/09	06/12/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.039	0.68	0.039	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.024	0.68	0.024	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.036	0.68	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.036	0.68	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.092	0.68	0.092	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.059	0.68	0.059	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.044	0.68	0.044	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.039	0.68	0.039	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.036	0.68	0.036	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.037	0.68	0.037	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.40	1.6	0.40	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.076	0.68	0.076	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.017	0.34	0.017	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.041	0.68	0.041	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.11	0.68	0.11	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.028	0.68	0.028	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.68	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Aniline	<0.092	0.68	0.092	mg/kg dry	1	"	"	"	"	
Anthracene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.73	2.6	0.73	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC2-TT2-0.5'-1.5' (0902742-02) Soil Sampled: 06/05/09 10:45 Received: 06/05/09 16:15										
Benzo (k) fluoranthene	<0.032	0.34	0.032	mg/kg dry	1	B9F1109	06/11/09	06/12/09	EPA 8270C	
Benzoic acid	<0.059	0.34	0.059	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.12	0.68	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Carbazole	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Chrysene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.015	0.34	0.015	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.038	0.34	0.038	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Fluorene	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.016	0.34	0.016	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.042	0.34	0.042	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
Isophorone	<0.017	0.34	0.017	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.030	0.34	0.030	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.098	0.68	0.098	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Phenol	<0.058	0.68	0.058	mg/kg dry	1	"	"	"	"	
Pyrene	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	64.3			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	56.3			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	54.1			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	56.6			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	56.5			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	69.9			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC2-TT3-0.5'-1' (0902742-03) Soil Sampled: 06/05/09 11:45 Received: 06/05/09 16:15

1,2,4-Trichlorobenzene	<0.032	0.39	0.032	mg/kg dry	1	B9F1109	06/11/09	06/12/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.045	0.79	0.045	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.79	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.068	0.79	0.068	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.051	0.79	0.051	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.045	0.79	0.045	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.042	0.79	0.042	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.46	1.9	0.46	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.087	0.79	0.087	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.047	0.79	0.047	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.79	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.032	0.79	0.032	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.79	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.85	2.9	0.85	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.032	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.032	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.035	0.39	0.035	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC2-TT3-0.5'-1' (0902742-03) Soil Sampled: 06/05/09 11:45 Received: 06/05/09 16:15										
Benzo (k) fluoranthene	<0.036	0.39	0.036	mg/kg dry	1	B9F1109	06/11/09	06/12/09	EPA 8270C	
Benzoic acid	<0.068	0.39	0.068	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.79	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.018	0.39	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.044	0.39	0.044	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.39	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.048	0.39	0.048	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.034	0.39	0.034	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.035	0.39	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.067	0.79	0.067	mg/kg dry	1	"	"	"	"	
Pyrene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	67.5			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	59.9			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	57.2			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	59.0			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	62.5			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	63.5			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC2-TT4-0.5'-1' (0902742-04) Soil Sampled: 06/05/09 13:30 Received: 06/05/09 16:15

1,2,4-Trichlorobenzene	<0.032	0.39	0.032	mg/kg dry	1	B9F1109	06/11/09	06/12/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.045	0.79	0.045	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.79	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.068	0.79	0.068	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.051	0.79	0.051	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.045	0.79	0.045	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.042	0.79	0.042	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.46	1.9	0.46	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.087	0.79	0.087	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.047	0.79	0.047	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.79	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.032	0.79	0.032	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.79	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.85	2.9	0.85	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.032	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.032	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.035	0.39	0.035	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC2-TT4-0.5'-1' (0902742-04) Soil Sampled: 06/05/09 13:30 Received: 06/05/09 16:15										
Benzo (k) fluoranthene	<0.036	0.39	0.036	mg/kg dry	1	B9F1109	06/11/09	06/12/09	EPA 8270C	
Benzoic acid	<0.068	0.39	0.068	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.79	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.018	0.39	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.044	0.39	0.044	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.39	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.048	0.39	0.048	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.034	0.39	0.034	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.035	0.39	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.067	0.79	0.067	mg/kg dry	1	"	"	"	"	
Pyrene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	79.7			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	68.9			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	64.1			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	67.1			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	69.6			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	70.2			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC2-TT5-0.5'-1' (0902742-05) Soil Sampled: 06/05/09 14:30 Received: 06/05/09 16:15

1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9F1109	06/11/09	06/12/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.78	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.78	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.78	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.78	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.050	0.78	0.050	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.78	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.042	0.78	0.042	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.45	1.9	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.086	0.78	0.086	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.047	0.78	0.047	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.78	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.78	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.78	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.78	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.84	2.9	0.84	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.040	0.38	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.035	0.38	0.035	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC2-TT5-0.5'-1' (0902742-05) Soil Sampled: 06/05/09 14:30 Received: 06/05/09 16:15										
Benzo (k) fluoranthene	<0.036	0.38	0.036	mg/kg dry	1	B9F1109	06/11/09	06/12/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.78	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.040	0.38	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.38	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.048	0.38	0.048	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.035	0.38	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.78	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.78	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	83.4			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	76.8			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	71.2			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	78.2			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	78.4			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	77.7			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC2-TT1-1.5' (0902742-01) Soil Sampled: 06/05/09 09:00 Received: 06/05/09 16:15										
1,1,1,2-Tetrachloroethane	<0.031	0.30	0.031	mg/kg dry	1	B9F1002	06/10/09	06/10/09	EPA 8260B	
1,1,1-Trichloroethane	<0.039	0.30	0.039	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.030	0.30	0.030	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.044	0.30	0.044	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.077	0.30	0.077	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.029	0.30	0.029	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.030	0.30	0.030	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.032	0.30	0.032	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.079	0.60	0.079	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.063	0.30	0.063	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.076	0.60	0.076	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.024	0.30	0.024	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.068	0.60	0.068	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.045	0.30	0.045	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.032	0.30	0.032	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.030	0.30	0.030	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.033	0.30	0.033	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.018	0.30	0.018	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.033	0.30	0.033	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.020	0.30	0.020	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.021	0.30	0.021	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.081	0.60	0.081	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.14	2.4	0.14	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.021	0.30	0.021	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.035	0.30	0.035	mg/kg dry	1	"	"	"	"	
Acetone	<0.38	2.4	0.38	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.080	0.60	0.080	mg/kg dry	1	"	"	"	"	
Benzene	<0.018	0.30	0.018	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.023	0.30	0.023	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.030	0.30	0.030	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.042	0.30	0.042	mg/kg dry	1	"	"	"	"	
Bromoform	<0.095	0.60	0.095	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.17	0.60	0.17	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.032	0.30	0.032	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.030	0.30	0.030	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.087	0.30	0.087	mg/kg dry	1	"	"	"	"	
Chloroform	<0.050	0.30	0.050	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.049	0.30	0.049	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.055	0.30	0.055	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC2-TT1-1.5' (0902742-01) Soil Sampled: 06/05/09 09:00 Received: 06/05/09 16:15										
cis-1,3-Dichloropropene	<0.027	0.30	0.027	mg/kg dry	1	B9F1002	06/10/09	06/10/09	EPA 8260B	
Dibromochloromethane	<0.038	0.30	0.038	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.055	0.30	0.055	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.098	0.60	0.098	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.052	0.30	0.052	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.057	0.60	0.057	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.026	0.30	0.026	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.15	1.2	0.15	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.027	0.30	0.027	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.10	0.60	0.10	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.11	0.60	0.11	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.020	0.30	0.020	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.20	1.2	0.20	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.077	0.60	0.077	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.038	0.30	0.038	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.017	0.30	0.017	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.037	0.30	0.037	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.036	0.30	0.036	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.012	0.30	0.012	mg/kg dry	1	"	"	"	"	
Styrene	<0.048	0.30	0.048	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.021	0.30	0.021	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.042	0.30	0.042	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.12	2.4	0.12	mg/kg dry	1	"	"	"	"	
Toluene	<0.033	0.30	0.033	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.026	0.30	0.026	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.042	0.30	0.042	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.048	0.30	0.048	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.038	0.30	0.038	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.027	0.30	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	109			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	105			80-120 %		"	"	"	"	

SOC2-TT2-0.5'-1.5' (0902742-02) Soil Sampled: 06/05/09 10:45 Received: 06/05/09 16:15										
1,1,1,2-Tetrachloroethane	<0.025	0.24	0.025	mg/kg dry	1	B9F1002	06/10/09	06/10/09	EPA 8260B	
1,1,1-Trichloroethane	<0.032	0.24	0.032	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.024	0.24	0.024	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.036	0.24	0.036	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.063	0.24	0.063	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC2-TT2-0.5'-1.5' (0902742-02) Soil Sampled: 06/05/09 10:45 Received: 06/05/09 16:15										
1,1-Dichloroethane	<0.023	0.24	0.023	mg/kg dry	1	B9F1002	06/10/09	06/10/09	EPA 8260B	
1,1-Dichloroethene	<0.024	0.24	0.024	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.026	0.24	0.026	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.064	0.48	0.064	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.051	0.24	0.051	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.062	0.48	0.062	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.019	0.24	0.019	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.055	0.48	0.055	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.037	0.24	0.037	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.026	0.24	0.026	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.024	0.24	0.024	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.027	0.24	0.027	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.014	0.24	0.014	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.24	0.027	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.016	0.24	0.016	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.017	0.24	0.017	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.065	0.48	0.065	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.12	1.9	0.12	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.017	0.24	0.017	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.028	0.24	0.028	mg/kg dry	1	"	"	"	"	
Acetone	<0.31	1.9	0.31	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.064	0.48	0.064	mg/kg dry	1	"	"	"	"	
Benzene	<0.014	0.24	0.014	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.018	0.24	0.018	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.024	0.24	0.024	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.034	0.24	0.034	mg/kg dry	1	"	"	"	"	
Bromoform	<0.077	0.48	0.077	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.13	0.48	0.13	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.026	0.24	0.026	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.024	0.24	0.024	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.070	0.24	0.070	mg/kg dry	1	"	"	"	"	
Chloroform	<0.040	0.24	0.040	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.039	0.24	0.039	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.044	0.24	0.044	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.022	0.24	0.022	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.031	0.24	0.031	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.044	0.24	0.044	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.079	0.48	0.079	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.042	0.24	0.042	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC2-TT2-0.5'-1.5' (0902742-02) Soil Sampled: 06/05/09 10:45 Received: 06/05/09 16:15										
Ethyl ether	<0.046	0.48	0.046	mg/kg dry	1	B9F1002	06/10/09	06/10/09	EPA 8260B	
Ethylbenzene	<0.021	0.24	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.13	0.96	0.13	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.022	0.24	0.022	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.085	0.48	0.085	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.089	0.48	0.089	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.016	0.24	0.016	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.16	0.96	0.16	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.063	0.48	0.063	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.031	0.24	0.031	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.013	0.24	0.013	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.030	0.24	0.030	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.029	0.24	0.029	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.0096	0.24	0.0096	mg/kg dry	1	"	"	"	"	
Styrene	<0.039	0.24	0.039	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.017	0.24	0.017	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.034	0.24	0.034	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.096	1.9	0.096	mg/kg dry	1	"	"	"	"	
Toluene	<0.027	0.24	0.027	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.021	0.24	0.021	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.034	0.24	0.034	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.039	0.24	0.039	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.031	0.24	0.031	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.022	0.24	0.022	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	110			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	103			80-120 %		"	"	"	"	

SOC2-TT3-0.5'-1' (0902742-03) Soil Sampled: 06/05/09 11:45 Received: 06/05/09 16:15										
1,1,1,2-Tetrachloroethane	<0.028	0.27	0.028	mg/kg dry	1	B9F1002	06/10/09	06/10/09	EPA 8260B	
1,1,1-Trichloroethane	<0.036	0.27	0.036	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.040	0.27	0.040	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.070	0.27	0.070	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.026	0.27	0.026	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.029	0.27	0.029	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.071	0.54	0.071	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.057	0.27	0.057	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC2-TT3-0.5'-1' (0902742-03) Soil **Sampled: 06/05/09 11:45** **Received: 06/05/09 16:15**

1,2,4-Trichlorobenzene	<0.069	0.54	0.069	mg/kg dry	1	B9F1002	06/10/09	06/10/09	EPA 8260B	
1,2,4-Trimethylbenzene	<0.022	0.27	0.022	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.062	0.54	0.062	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.041	0.27	0.041	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.029	0.27	0.029	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.030	0.27	0.030	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.016	0.27	0.016	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.030	0.27	0.030	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.018	0.27	0.018	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.019	0.27	0.019	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.073	0.54	0.073	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.13	2.2	0.13	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.019	0.27	0.019	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.031	0.27	0.031	mg/kg dry	1	"	"	"	"	
Acetone	<0.35	2.2	0.35	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.072	0.54	0.072	mg/kg dry	1	"	"	"	"	
Benzene	<0.016	0.27	0.016	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.021	0.27	0.021	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.038	0.27	0.038	mg/kg dry	1	"	"	"	"	
Bromoform	<0.086	0.54	0.086	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.15	0.54	0.15	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.029	0.27	0.029	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.079	0.27	0.079	mg/kg dry	1	"	"	"	"	
Chloroform	<0.045	0.27	0.045	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.044	0.27	0.044	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.050	0.27	0.050	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.025	0.27	0.025	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.035	0.27	0.035	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.050	0.27	0.050	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.089	0.54	0.089	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.047	0.27	0.047	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.052	0.54	0.052	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.024	0.27	0.024	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.14	1.1	0.14	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.025	0.27	0.025	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.095	0.54	0.095	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC2-TT3-0.5'-1' (0902742-03) Soil Sampled: 06/05/09 11:45 Received: 06/05/09 16:15										
Methyl isobutyl ketone	<0.099	0.54	0.099	mg/kg dry	1	B9F1002	06/10/09	06/10/09	EPA 8260B	
Methyl tert-butyl ether	<0.018	0.27	0.018	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.18	1.1	0.18	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.070	0.54	0.070	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.035	0.27	0.035	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.015	0.27	0.015	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.033	0.27	0.033	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.032	0.27	0.032	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.011	0.27	0.011	mg/kg dry	1	"	"	"	"	
Styrene	<0.043	0.27	0.043	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.019	0.27	0.019	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.038	0.27	0.038	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.11	2.2	0.11	mg/kg dry	1	"	"	"	"	
Toluene	<0.030	0.27	0.030	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.024	0.27	0.024	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.038	0.27	0.038	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.043	0.27	0.043	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.035	0.27	0.035	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.025	0.27	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	107			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	102			80-120 %		"	"	"	"	

SOC2-TT4-0.5'-1' (0902742-04) Soil Sampled: 06/05/09 13:30 Received: 06/05/09 16:15										
1,1,1,2-Tetrachloroethane	<0.031	0.29	0.031	mg/kg dry	1	B9F1002	06/10/09	06/10/09	EPA 8260B	
1,1,1-Trichloroethane	<0.039	0.29	0.039	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.044	0.29	0.044	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.076	0.29	0.076	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.028	0.29	0.028	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.032	0.29	0.032	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.078	0.59	0.078	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.062	0.29	0.062	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.075	0.59	0.075	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.024	0.29	0.024	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.067	0.59	0.067	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.045	0.29	0.045	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.032	0.29	0.032	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC2-TT4-0.5'-1' (0902742-04) Soil Sampled: 06/05/09 13:30 Received: 06/05/09 16:15										
1,2-Dichloroethane	<0.029	0.29	0.029	mg/kg dry	1	B9F1002	06/10/09	06/10/09	EPA 8260B	
1,2-Dichloropropane	<0.033	0.29	0.033	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.018	0.29	0.018	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.033	0.29	0.033	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.020	0.29	0.020	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.021	0.29	0.021	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.080	0.59	0.080	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.14	2.4	0.14	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.021	0.29	0.021	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.034	0.29	0.034	mg/kg dry	1	"	"	"	"	
Acetone	<0.38	2.4	0.38	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.079	0.59	0.079	mg/kg dry	1	"	"	"	"	
Benzene	<0.018	0.29	0.018	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.022	0.29	0.022	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.041	0.29	0.041	mg/kg dry	1	"	"	"	"	
Bromoform	<0.094	0.59	0.094	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.16	0.59	0.16	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.032	0.29	0.032	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.086	0.29	0.086	mg/kg dry	1	"	"	"	"	
Chloroform	<0.049	0.29	0.049	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.048	0.29	0.048	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.054	0.29	0.054	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.027	0.29	0.027	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.038	0.29	0.038	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.054	0.29	0.054	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.096	0.59	0.096	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.052	0.29	0.052	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.056	0.59	0.056	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.026	0.29	0.026	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.15	1.2	0.15	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.027	0.29	0.027	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.10	0.59	0.10	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.11	0.59	0.11	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.020	0.29	0.020	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.20	1.2	0.20	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.076	0.59	0.076	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.038	0.29	0.038	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC2-TT4-0.5'-1' (0902742-04) Soil Sampled: 06/05/09 13:30 Received: 06/05/09 16:15										
n-Propylbenzene	<0.016	0.29	0.016	mg/kg dry	1	B9F1002	06/10/09	06/10/09	EPA 8260B	
o-Xylene	<0.036	0.29	0.036	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.035	0.29	0.035	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.012	0.29	0.012	mg/kg dry	1	"	"	"	"	
Styrene	<0.047	0.29	0.047	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.021	0.29	0.021	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.041	0.29	0.041	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.12	2.4	0.12	mg/kg dry	1	"	"	"	"	
Toluene	<0.033	0.29	0.033	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.026	0.29	0.026	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.041	0.29	0.041	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.047	0.29	0.047	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.038	0.29	0.038	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.027	0.29	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	102			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	108			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	104			80-120 %		"	"	"	"	

SOC2-TT5-0.5'-1' (0902742-05) Soil Sampled: 06/05/09 14:30 Received: 06/05/09 16:15										
1,1,1,2-Tetrachloroethane	<0.030	0.29	0.030	mg/kg dry	1	B9F1002	06/10/09	06/10/09	EPA 8260B	
1,1,1-Trichloroethane	<0.038	0.29	0.038	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.043	0.29	0.043	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.076	0.29	0.076	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.028	0.29	0.028	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.031	0.29	0.031	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.077	0.58	0.077	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.062	0.29	0.062	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.074	0.58	0.074	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.023	0.29	0.023	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.066	0.58	0.066	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.044	0.29	0.044	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.031	0.29	0.031	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.033	0.29	0.033	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.017	0.29	0.017	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.033	0.29	0.033	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.020	0.29	0.020	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC2-TT5-0.5'-1' (0902742-05) Soil Sampled: 06/05/09 14:30 Received: 06/05/09 16:15										
1,4-Dichlorobenzene	<0.021	0.29	0.021	mg/kg dry	1	B9F1002	06/10/09	06/10/09	EPA 8260B	
2,2-Dichloropropane	<0.079	0.58	0.079	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.14	2.3	0.14	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.021	0.29	0.021	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.034	0.29	0.034	mg/kg dry	1	"	"	"	"	
Acetone	<0.37	2.3	0.37	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.078	0.58	0.078	mg/kg dry	1	"	"	"	"	
Benzene	<0.017	0.29	0.017	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.022	0.29	0.022	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.041	0.29	0.041	mg/kg dry	1	"	"	"	"	
Bromoform	<0.093	0.58	0.093	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.16	0.58	0.16	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.031	0.29	0.031	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.085	0.29	0.085	mg/kg dry	1	"	"	"	"	
Chloroform	<0.049	0.29	0.049	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.048	0.29	0.048	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.053	0.29	0.053	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.027	0.29	0.027	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.037	0.29	0.037	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.053	0.29	0.053	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.095	0.58	0.095	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.051	0.29	0.051	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.056	0.58	0.056	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.026	0.29	0.026	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.15	1.2	0.15	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.027	0.29	0.027	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.10	0.58	0.10	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.11	0.58	0.11	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.020	0.29	0.020	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.20	1.2	0.20	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.076	0.58	0.076	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.037	0.29	0.037	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.016	0.29	0.016	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.036	0.29	0.036	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.035	0.29	0.035	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.012	0.29	0.012	mg/kg dry	1	"	"	"	"	
Styrene	<0.047	0.29	0.047	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC2-TT5-0.5'-1' (0902742-05) Soil Sampled: 06/05/09 14:30 Received: 06/05/09 16:15										
tert-Butylbenzene	<0.021	0.29	0.021	mg/kg dry	1	B9F1002	06/10/09	06/10/09	EPA 8260B	
Tetrachloroethene	<0.041	0.29	0.041	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.12	2.3	0.12	mg/kg dry	1	"	"	"	"	
Toluene	<0.033	0.29	0.033	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.026	0.29	0.026	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.041	0.29	0.041	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.047	0.29	0.047	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.037	0.29	0.037	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.027	0.29	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	107			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	104			80-120 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1111 - EPA 7471A											
Blank (B9F1111-BLK1)						Prepared: 06/11/09 Analyzed: 06/15/09					
Mercury	< 0.10	0.10	0.0031	mg/kg wet							
LCS (B9F1111-BS1)						Prepared: 06/11/09 Analyzed: 06/15/09					
Mercury	0.205	0.10	0.0031	mg/kg wet	0.200		102	80-120			
LCS Dup (B9F1111-BSD1)						Prepared: 06/11/09 Analyzed: 06/15/09					
Mercury	0.203	0.10	0.0031	mg/kg wet	0.200		102	80-120	0.980	20	
Matrix Spike (B9F1111-MS1)						Source: 0902742-01 Prepared: 06/11/09 Analyzed: 06/15/09					
Mercury	0.276	0.12	0.0037	mg/kg dry	0.238	<0.12	106	75-125			
Matrix Spike Dup (B9F1111-MSD1)						Source: 0902742-01 Prepared: 06/11/09 Analyzed: 06/15/09					
Mercury	0.282	0.12	0.0037	mg/kg dry	0.238	<0.12	108	75-125	2.13	20	
Batch B9F1513 - EPA 3050B											
Blank (B9F1513-BLK1)						Prepared: 06/15/09 Analyzed: 06/16/09					
Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							
LCS (B9F1513-BS1)						Prepared & Analyzed: 06/15/09					
Antimony	34.9	0.50	0.0055	mg/kg wet	39.9		87.5	80-120			
Arsenic	36.6	0.50	0.10	mg/kg wet	39.9		91.7	80-120			
Beryllium	3.75	0.25	0.011	mg/kg wet	3.99		93.9	80-120			
Cadmium	38.2	0.25	0.025	mg/kg wet	39.9		95.7	80-120			
Chromium	38.1	0.50	0.012	mg/kg wet	39.9		95.6	80-120			
Copper	36.3	1.0	0.070	mg/kg wet	39.9		90.9	80-120			
Lead	37.9	1.0	0.034	mg/kg wet	39.9		95.0	80-120			
Nickel	37.6	0.50	0.014	mg/kg wet	39.9		94.2	80-120			
Selenium	36.6	1.0	0.11	mg/kg wet	39.9		91.7	80-120			
Silver	3.78	0.25	0.0090	mg/kg wet	3.99		94.7	80-120			
Thallium	38.0	2.0	0.13	mg/kg wet	39.9		95.3	80-120			
Zinc	37.7	1.0	0.22	mg/kg wet	39.9		94.5	80-120			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1513 - EPA 3050B

LCS Dup (B9F1513-BSD1)

Prepared & Analyzed: 06/15/09

Antimony	36.2	0.50	0.0055	mg/kg wet	39.9		90.7	80-120	3.57	20	
Arsenic	37.4	0.50	0.10	mg/kg wet	39.9		93.6	80-120	2.11	20	
Beryllium	3.81	0.25	0.011	mg/kg wet	3.99		95.6	80-120	1.81	20	
Cadmium	38.9	0.25	0.025	mg/kg wet	39.9		97.5	80-120	1.87	20	
Chromium	38.5	0.50	0.012	mg/kg wet	39.9		96.6	80-120	1.04	20	
Copper	37.0	1.0	0.070	mg/kg wet	39.9		92.7	80-120	2.05	20	
Lead	38.6	1.0	0.034	mg/kg wet	39.9		96.8	80-120	1.83	20	
Nickel	38.2	0.50	0.014	mg/kg wet	39.9		95.8	80-120	1.67	20	
Selenium	37.4	1.0	0.11	mg/kg wet	39.9		93.8	80-120	2.18	20	
Silver	3.83	0.25	0.0090	mg/kg wet	3.99		96.0	80-120	1.39	20	
Thallium	38.8	2.0	0.13	mg/kg wet	39.9		97.2	80-120	2.05	20	
Zinc	38.3	1.0	0.22	mg/kg wet	39.9		96.0	80-120	1.54	20	

Matrix Spike (B9F1513-MS1)

Source: 0902742-01

Prepared & Analyzed: 06/15/09

Antimony	38.0	0.60	0.0065	mg/kg dry	47.5	<0.60	79.6	75-125			
Arsenic	48.9	0.60	0.12	mg/kg dry	47.5	7.19	87.9	75-125			
Beryllium	4.78	0.30	0.013	mg/kg dry	4.75	0.512	89.9	75-125			
Cadmium	42.0	0.30	0.030	mg/kg dry	47.5	0.522	87.3	75-125			
Chromium	62.4	0.60	0.014	mg/kg dry	47.5	19.5	90.2	75-125			
Copper	55.0	1.2	0.083	mg/kg dry	47.5	13.1	88.3	75-125			
Lead	54.0	1.2	0.040	mg/kg dry	47.5	13.3	85.7	75-125			
Nickel	56.1	0.60	0.017	mg/kg dry	47.5	14.9	86.9	75-125			
Selenium	41.1	1.2	0.13	mg/kg dry	47.5	<1.2	86.4	75-125			
Silver	4.20	0.30	0.011	mg/kg dry	4.75	<0.30	88.4	75-125			
Thallium	38.9	2.4	0.15	mg/kg dry	47.5	<2.4	82.0	75-125			
Zinc	108	1.2	0.26	mg/kg dry	47.5	69.9	80.0	75-125			

Matrix Spike Dup (B9F1513-MSD1)

Source: 0902742-01

Prepared & Analyzed: 06/15/09

Antimony	38.0	0.60	0.0065	mg/kg dry	47.5	<0.60	79.6	75-125	0.0632	20	
Arsenic	48.1	0.60	0.12	mg/kg dry	47.5	7.19	86.1	75-125	1.76	20	
Beryllium	4.69	0.30	0.013	mg/kg dry	4.75	0.512	87.9	75-125	2.06	20	
Cadmium	41.7	0.30	0.030	mg/kg dry	47.5	0.522	86.6	75-125	0.771	20	
Chromium	60.4	0.60	0.014	mg/kg dry	47.5	19.5	86.1	75-125	3.21	20	
Copper	54.1	1.2	0.083	mg/kg dry	47.5	13.1	86.3	75-125	1.69	20	
Lead	52.9	1.2	0.040	mg/kg dry	47.5	13.3	83.3	75-125	2.11	20	
Nickel	54.7	0.60	0.017	mg/kg dry	47.5	14.9	83.8	75-125	2.64	20	
Selenium	41.1	1.2	0.13	mg/kg dry	47.5	<1.2	86.6	75-125	0.141	20	
Silver	4.20	0.30	0.011	mg/kg dry	4.75	<0.30	88.3	75-125	0.0674	20	
Thallium	39.1	2.4	0.15	mg/kg dry	47.5	<2.4	82.3	75-125	0.414	20	
Zinc	108	1.2	0.26	mg/kg dry	47.5	69.9	81.0	75-125	0.450	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1518 - General Preparation											
Duplicate (B9F1518-DUP1)							Source: 0902742-04				Prepared: 06/15/09 Analyzed: 06/16/09
% Solids	85.0			%		85.0			0.00	20	
Duplicate (B9F1518-DUP2)							Source: 0902744-09				Prepared: 06/15/09 Analyzed: 06/16/09
% Solids	91.0			%		90.0			1.10	20	
Duplicate (B9F1518-DUP3)							Source: 0902791-02				Prepared: 06/15/09 Analyzed: 06/16/09
% Solids	79.0			%		79.0			0.00	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1109 - EPA 3545 ASE Extraction

Blank (B9F1109-BLK1)

Prepared & Analyzed: 06/11/09

1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3'-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1109 - EPA 3545 ASE Extraction

Blank (B9F1109-BLK1)

Prepared & Analyzed: 06/11/09

Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	4.42			mg/kg wet	6.67		66.2	47.2-108			
Surrogate: 2-Fluorobiphenyl	3.93			mg/kg wet	6.67		59.0	53.2-85.1			
Surrogate: 2-Fluorophenol	3.84			mg/kg wet	6.67		57.6	48.5-90.1			
Surrogate: Nitrobenzene-d5	3.95			mg/kg wet	6.67		59.3	49.1-86.9			
Surrogate: Phenol-d6	4.01			mg/kg wet	6.67		60.2	47.6-99.6			
Surrogate: Terphenyl-d14	4.54			mg/kg wet	6.67		68.0	43.6-112			

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05.07SOC 350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902742
 Date Reported: 07/28/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1109 - EPA 3545 ASE Extraction

LCS (B9F1109-BS1)

Prepared: 06/11/09 Analyzed: 06/12/09

1,2,4-Trichlorobenzene	4.46	0.33	0.027	mg/kg wet	6.67		66.8	50.7-82.1			
1,4-Dichlorobenzene	3.80	0.33	0.024	mg/kg wet	6.67		56.9	44-77			
2,4-Dinitrotoluene	4.58	0.33	0.021	mg/kg wet	6.67		68.7	56.7-81.7			
2-Chlorophenol	4.28	0.67	0.038	mg/kg wet	6.67		64.3	52.3-88.2			
4-Chloro-3-methylphenol	4.55	0.67	0.040	mg/kg wet	6.67		68.2	53.4-87			
4-Nitrophenol	5.36	0.67	0.099	mg/kg wet	6.67		80.4	55.7-87.1			
Anthracene	4.98	0.33	0.025	mg/kg wet	6.67		74.6	65.3-92			
Benzo (a) anthracene	5.23	0.33	0.027	mg/kg wet	6.67		78.5	69-95.3			
Benzo (a) pyrene	5.12	0.33	0.027	mg/kg wet	6.67		76.8	68.5-98.2			
Chrysene	5.10	0.33	0.033	mg/kg wet	6.67		76.5	68.6-94.2			
Fluoranthene	5.13	0.33	0.024	mg/kg wet	6.67		77.0	64.3-94.6			
Fluorene	4.74	0.33	0.018	mg/kg wet	6.67		71.1	61.9-89.4			
N-Nitrosodi-n-propylamine	4.65	0.33	0.025	mg/kg wet	6.67		69.8	55.5-91.1			
Pentachlorophenol	4.89	0.67	0.096	mg/kg wet	6.67		73.3	54.7-74.6			
Phenanthrene	4.95	0.33	0.019	mg/kg wet	6.67		74.2	64.3-90.9			
Phenol	4.15	0.67	0.057	mg/kg wet	6.67		62.2	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	4.84			mg/kg wet	6.67		72.6	47.2-108			
Surrogate: 2-Fluorobiphenyl	4.57			mg/kg wet	6.67		68.5	53.2-85.1			
Surrogate: 2-Fluorophenol	4.32			mg/kg wet	6.67		64.8	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.60			mg/kg wet	6.67		69.0	49.1-86.9			
Surrogate: Phenol-d6	4.68			mg/kg wet	6.67		70.2	47.6-99.6			
Surrogate: Terphenyl-d14	4.78			mg/kg wet	6.67		71.7	43.6-112			

Matrix Spike (B9F1109-MS1)

Source: 0902777-01

Prepared & Analyzed: 06/11/09

1,2,4-Trichlorobenzene	6.94	0.43	0.035	mg/kg dry	8.78	<0.43	79.1	51-77.5			M1
1,4-Dichlorobenzene	5.78	0.43	0.031	mg/kg dry	8.78	<0.43	65.9	41.7-73.4			
2,4-Dinitrotoluene	6.56	0.43	0.027	mg/kg dry	8.78	<0.43	74.7	50-84.8			
2-Chlorophenol	6.66	0.87	0.049	mg/kg dry	8.78	<0.87	75.9	47.8-90.8			
4-Chloro-3-methylphenol	6.83	0.87	0.052	mg/kg dry	8.78	<0.87	77.8	48.4-95.1			
4-Nitrophenol	7.12	0.87	0.13	mg/kg dry	8.78	<0.87	81.1	44-105			
Anthracene	7.28	0.43	0.032	mg/kg dry	8.78	<0.43	82.9	60.2-97.3			
Benzo (a) anthracene	7.70	0.43	0.035	mg/kg dry	8.78	<0.43	87.7	59.8-102			
Benzo (a) pyrene	7.58	0.43	0.035	mg/kg dry	8.78	<0.43	86.4	57.2-105			
Chrysene	7.70	0.43	0.043	mg/kg dry	8.78	<0.43	87.7	59.2-102			
Fluoranthene	7.31	0.43	0.031	mg/kg dry	8.78	<0.43	83.2	50.4-108			
Fluorene	7.20	0.43	0.023	mg/kg dry	8.78	<0.43	82.0	57.8-94.4			
N-Nitrosodi-n-propylamine	6.97	0.43	0.032	mg/kg dry	8.78	<0.43	79.4	46.2-96.2			
Pentachlorophenol	6.98	0.87	0.12	mg/kg dry	8.78	<0.87	79.5	53.6-80.4			
Phenanthrene	7.25	0.43	0.025	mg/kg dry	8.78	<0.43	82.6	58.4-97.5			
Phenol	6.30	0.87	0.074	mg/kg dry	8.78	<0.87	71.7	44-88.5			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1109 - EPA 3545 ASE Extraction

Matrix Spike (B9F1109-MS1)

Source: 0902777-01

Prepared & Analyzed: 06/11/09

Surrogate: 2,4,6-Tribromophenol	7.48			mg/kg dry	8.78		85.2	47.2-108			
Surrogate: 2-Fluorobiphenyl	6.88			mg/kg dry	8.78		78.4	53.2-85.1			
Surrogate: 2-Fluorophenol	6.74			mg/kg dry	8.78		76.8	48.5-90.1			
Surrogate: Nitrobenzene-d5	6.92			mg/kg dry	8.78		78.8	49.1-86.9			
Surrogate: Phenol-d6	7.15			mg/kg dry	8.78		81.4	47.6-99.6			
Surrogate: Terphenyl-d14	6.96			mg/kg dry	8.78		79.3	43.6-112			

Matrix Spike Dup (B9F1109-MSD1)

Source: 0902777-01

Prepared & Analyzed: 06/11/09

1,2,4-Trichlorobenzene	6.60	0.43	0.035	mg/kg dry	8.76	<0.43	75.3	51-77.5	5.01	15.7	
1,4-Dichlorobenzene	5.57	0.43	0.031	mg/kg dry	8.76	<0.43	63.6	41.7-73.4	3.67	14.7	
2,4-Dinitrotoluene	6.51	0.43	0.027	mg/kg dry	8.76	<0.43	74.3	50-84.8	0.651	20.5	
2-Chlorophenol	6.40	0.87	0.049	mg/kg dry	8.76	<0.87	73.0	47.8-90.8	4.09	19.8	
4-Chloro-3-methylphenol	6.63	0.87	0.052	mg/kg dry	8.76	<0.87	75.7	48.4-95.1	2.97	18.7	
4-Nitrophenol	7.42	0.87	0.13	mg/kg dry	8.76	<0.87	84.6	44-105	4.09	30.9	
Anthracene	7.19	0.43	0.032	mg/kg dry	8.76	<0.43	82.1	60.2-97.3	1.21	15.1	
Benzo (a) anthracene	7.62	0.43	0.035	mg/kg dry	8.76	<0.43	87.0	59.8-102	0.998	19.6	
Benzo (a) pyrene	7.45	0.43	0.035	mg/kg dry	8.76	<0.43	85.0	57.2-105	1.76	19.4	
Chrysene	7.61	0.43	0.043	mg/kg dry	8.76	<0.43	86.9	59.2-102	1.17	19.6	
Fluoranthene	7.30	0.43	0.031	mg/kg dry	8.76	<0.43	83.3	50.4-108	0.0678	21	
Fluorene	6.93	0.43	0.023	mg/kg dry	8.76	<0.43	79.0	57.8-94.4	3.92	15.8	
N-Nitrosodi-n-propylamine	6.67	0.43	0.032	mg/kg dry	8.76	<0.43	76.1	46.2-96.2	4.42	17.1	
Pentachlorophenol	7.14	0.87	0.12	mg/kg dry	8.76	<0.87	81.5	53.6-80.4	2.25	22.4	M1
Phenanthrene	7.16	0.43	0.025	mg/kg dry	8.76	<0.43	81.7	58.4-97.5	1.21	14.3	
Phenol	6.09	0.87	0.074	mg/kg dry	8.76	<0.87	69.5	44-88.5	3.36	21.5	
Surrogate: 2,4,6-Tribromophenol	7.30			mg/kg dry	8.76		83.3	47.2-108			
Surrogate: 2-Fluorobiphenyl	6.49			mg/kg dry	8.76		74.1	53.2-85.1			
Surrogate: 2-Fluorophenol	6.37			mg/kg dry	8.76		72.7	48.5-90.1			
Surrogate: Nitrobenzene-d5	6.51			mg/kg dry	8.76		74.3	49.1-86.9			
Surrogate: Phenol-d6	6.76			mg/kg dry	8.76		77.2	47.6-99.6			
Surrogate: Terphenyl-d14	6.88			mg/kg dry	8.76		78.5	43.6-112			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1002 - Volatiles

Blank (B9F1002-BLK1)

Prepared & Analyzed: 06/10/09

1,1,1,2-Tetrachloroethane	< 0.026	0.25	0.026	mg/kg wet							
1,1,1-Trichloroethane	< 0.033	0.25	0.033	mg/kg wet							
1,1,2,2-Tetrachloroethane	< 0.025	0.25	0.025	mg/kg wet							
1,1,2-Trichloroethane	< 0.037	0.25	0.037	mg/kg wet							
1,1,2-Trichlorotrifluoroethane	< 0.065	0.25	0.065	mg/kg wet							
1,1-Dichloroethane	< 0.024	0.25	0.024	mg/kg wet							
1,1-Dichloroethene	< 0.025	0.25	0.025	mg/kg wet							
1,1-Dichloropropene	< 0.027	0.25	0.027	mg/kg wet							
1,2,3-Trichlorobenzene	< 0.066	0.50	0.066	mg/kg wet							
1,2,3-Trichloropropane	< 0.053	0.25	0.053	mg/kg wet							
1,2,4-Trichlorobenzene	< 0.064	0.50	0.064	mg/kg wet							
1,2,4-Trimethylbenzene	< 0.020	0.25	0.020	mg/kg wet							
1,2-Dibromo-3-chloropropane	< 0.057	0.50	0.057	mg/kg wet							
1,2-Dibromoethane (EDB)	< 0.038	0.25	0.038	mg/kg wet							
1,2-Dichlorobenzene	< 0.027	0.25	0.027	mg/kg wet							
1,2-Dichloroethane	< 0.025	0.25	0.025	mg/kg wet							
1,2-Dichloropropane	< 0.028	0.25	0.028	mg/kg wet							
1,3,5-Trimethylbenzene	< 0.015	0.25	0.015	mg/kg wet							
1,3-Dichlorobenzene	< 0.028	0.25	0.028	mg/kg wet							
1,3-Dichloropropane	< 0.017	0.25	0.017	mg/kg wet							
1,4-Dichlorobenzene	< 0.018	0.25	0.018	mg/kg wet							
2,2-Dichloropropane	< 0.068	0.50	0.068	mg/kg wet							
2-Butanone	< 0.12	2.0	0.12	mg/kg wet							
2-Chlorotoluene	< 0.018	0.25	0.018	mg/kg wet							
4-Chlorotoluene	< 0.029	0.25	0.029	mg/kg wet							
Acetone	< 0.32	2.0	0.32	mg/kg wet							
Allyl chloride	< 0.067	0.50	0.067	mg/kg wet							
Benzene	< 0.015	0.25	0.015	mg/kg wet							
Bromobenzene	< 0.019	0.25	0.019	mg/kg wet							
Bromochloromethane	< 0.025	0.25	0.025	mg/kg wet							
Bromodichloromethane	< 0.035	0.25	0.035	mg/kg wet							
Bromoform	< 0.080	0.50	0.080	mg/kg wet							
Bromomethane	< 0.14	0.50	0.14	mg/kg wet							
Carbon tetrachloride	< 0.027	0.25	0.027	mg/kg wet							
Chlorobenzene	< 0.025	0.25	0.025	mg/kg wet							
Chloroethane	< 0.073	0.25	0.073	mg/kg wet							
Chloroform	< 0.042	0.25	0.042	mg/kg wet							
Chloromethane	< 0.041	0.25	0.041	mg/kg wet							
cis-1,2-Dichloroethene	< 0.046	0.25	0.046	mg/kg wet							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1002 - Volatiles

Blank (B9F1002-BLK1)

Prepared & Analyzed: 06/10/09

cis-1,3-Dichloropropene	< 0.023	0.25	0.023	mg/kg wet							
Dibromochloromethane	< 0.032	0.25	0.032	mg/kg wet							
Dibromomethane	< 0.046	0.25	0.046	mg/kg wet							
Dichlorodifluoromethane	< 0.082	0.50	0.082	mg/kg wet							
Dichlorofluoromethane	< 0.044	0.25	0.044	mg/kg wet							
Ethyl ether	< 0.048	0.50	0.048	mg/kg wet							
Ethylbenzene	< 0.022	0.25	0.022	mg/kg wet							
Hexachlorobutadiene	< 0.13	1.0	0.13	mg/kg wet							
Isopropylbenzene	< 0.023	0.25	0.023	mg/kg wet							
m,p-Xylene	< 0.088	0.50	0.088	mg/kg wet							
Methyl isobutyl ketone	< 0.092	0.50	0.092	mg/kg wet							
Methyl tert-butyl ether	< 0.017	0.25	0.017	mg/kg wet							
Methylene chloride	< 0.17	1.0	0.17	mg/kg wet							
Naphthalene	< 0.065	0.50	0.065	mg/kg wet							
n-Butylbenzene	< 0.032	0.25	0.032	mg/kg wet							
n-Propylbenzene	< 0.014	0.25	0.014	mg/kg wet							
o-Xylene	< 0.031	0.25	0.031	mg/kg wet							
p-Isopropyltoluene	< 0.030	0.25	0.030	mg/kg wet							
sec-Butylbenzene	< 0.010	0.25	0.010	mg/kg wet							
Styrene	< 0.040	0.25	0.040	mg/kg wet							
tert-Butylbenzene	< 0.018	0.25	0.018	mg/kg wet							
Tetrachloroethene	< 0.035	0.25	0.035	mg/kg wet							
Tetrahydrofuran	< 0.10	2.0	0.10	mg/kg wet							
Toluene	< 0.028	0.25	0.028	mg/kg wet							
trans-1,2-Dichloroethene	< 0.022	0.25	0.022	mg/kg wet							
trans-1,3-Dichloropropene	< 0.035	0.25	0.035	mg/kg wet							
Trichloroethene	< 0.040	0.25	0.040	mg/kg wet							
Trichlorofluoromethane	< 0.032	0.25	0.032	mg/kg wet							
Vinyl chloride	< 0.023	0.25	0.023	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	52.3			ug/L	50.0		105	80-120			
Surrogate: Dibromofluoromethane	53.1			ug/L	50.0		106	80-120			
Surrogate: Toluene-d8	52.5			ug/L	50.0		105	80-120			

LCS (B9F1002-BS1)

Prepared & Analyzed: 06/10/09

1,1,2,2-Tetrachloroethane	47.6			ug/L	50.0		95.3	80-120			
1,1-Dichloroethane	52.6			ug/L	50.0		105	78.8-120			
1,1-Dichloroethene	54.0			ug/L	50.0		108	75-125			
1,3,5-Trimethylbenzene	47.9			ug/L	50.0		95.9	80-120			
1,4-Dichlorobenzene	48.6			ug/L	50.0		97.2	75-125			
2-Chlorotoluene	47.2			ug/L	50.0		94.5	80-120			

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05.07SOC 350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902742
 Date Reported: 07/28/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1002 - Volatiles

LCS (B9F1002-BS1)

Prepared & Analyzed: 06/10/09

Benzene	50.8			ug/L	50.0		102	80-120			
Bromoform	51.4			ug/L	50.0		103	77.1-125			
Chlorobenzene	51.0			ug/L	50.0		102	80-120			
Chloroform	52.9			ug/L	50.0		106	77.3-120			
Ethylbenzene	52.3			ug/L	50.0		105	80-120			
n-Butylbenzene	50.5			ug/L	50.0		101	70.1-125			
n-Propylbenzene	47.0			ug/L	50.0		93.9	75-120			
Toluene	51.5			ug/L	50.0		103	80-120			
Trichloroethene	50.8			ug/L	50.0		102	80-120			
Vinyl chloride	60.9			ug/L	50.0		122	70-130			
Surrogate: 4-Bromofluorobenzene	56.5			ug/L	50.0		113	80-120			
Surrogate: Dibromofluoromethane	54.7			ug/L	50.0		109	80-120			
Surrogate: Toluene-d8	52.7			ug/L	50.0		105	80-120			

Matrix Spike (B9F1002-MS1)

Source: 0902742-01

Prepared & Analyzed: 06/10/09

1,1,2,2-Tetrachloroethane	46.3			ug/L	50.0	<	92.5	80-120			
1,1-Dichloroethane	51.3			ug/L	50.0	<	103	77.5-120			
1,1-Dichloroethene	53.2			ug/L	50.0	<	106	76.1-125			
1,3,5-Trimethylbenzene	46.2			ug/L	50.0	<	92.3	80-120			
1,4-Dichlorobenzene	49.1			ug/L	50.0	<	98.1	75-125			
2-Chlorotoluene	45.2			ug/L	50.0	<	90.3	76.9-120			
Benzene	49.5			ug/L	50.0	<	98.9	80-120			
Bromoform	51.0			ug/L	50.0	<	102	80-125			
Chlorobenzene	50.2			ug/L	50.0	<	100	80-120			
Chloroform	51.6			ug/L	50.0	<	103	80-120			
Ethylbenzene	50.5			ug/L	50.0	<	101	80-120			
n-Butylbenzene	49.8			ug/L	50.0	<	99.6	74.7-125			
n-Propylbenzene	44.7			ug/L	50.0	<	89.4	75-120			
Toluene	49.5			ug/L	50.0	<	99.0	80-120			
Trichloroethene	50.4			ug/L	50.0	<	101	80-120			
Vinyl chloride	57.9			ug/L	50.0	<	116	70-125			
Surrogate: 4-Bromofluorobenzene	54.1			ug/L	50.0		108	80-120			
Surrogate: Dibromofluoromethane	54.3			ug/L	50.0		109	80-120			
Surrogate: Toluene-d8	51.8			ug/L	50.0		104	80-120			

Matrix Spike Dup (B9F1002-MSD1)

Source: 0902742-01

Prepared & Analyzed: 06/10/09

1,1,2,2-Tetrachloroethane	45.4			ug/L	50.0	<	90.8	80-120	1.84	20	
1,1-Dichloroethane	51.6			ug/L	50.0	<	103	77.5-120	0.558	20	
1,1-Dichloroethene	55.2			ug/L	50.0	<	110	76.1-125	3.79	20	
1,3,5-Trimethylbenzene	46.4			ug/L	50.0	<	92.9	80-120	0.603	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902742 Date Reported: 07/28/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1002 - Volatiles											
Matrix Spike Dup (B9F1002-MSD1)			Source: 0902742-01			Prepared & Analyzed: 06/10/09					
1,4-Dichlorobenzene	47.7			ug/L	50.0	<	95.3	75-125	2.89	20	
2-Chlorotoluene	45.8			ug/L	50.0	<	91.6	76.9-120	1.39	20	
Benzene	50.5			ug/L	50.0	<	101	80-120	2.15	20	
Bromoform	50.3			ug/L	50.0	<	101	80-125	1.26	20	
Chlorobenzene	49.2			ug/L	50.0	<	98.5	80-120	1.86	20	
Chloroform	51.4			ug/L	50.0	<	103	80-120	0.421	20	
Ethylbenzene	49.8			ug/L	50.0	<	99.6	80-120	1.40	20	
n-Butylbenzene	48.8			ug/L	50.0	<	97.6	74.7-125	2.06	20	
n-Propylbenzene	45.6			ug/L	50.0	<	91.2	75-120	1.98	20	
Toluene	50.5			ug/L	50.0	<	101	80-120	2.12	20	
Trichloroethene	53.1			ug/L	50.0	<	106	80-120	5.30	20	
Vinyl chloride	61.2			ug/L	50.0	<	122	70-125	5.56	20	
Surrogate: 4-Bromofluorobenzene	55.3			ug/L	50.0		111	80-120			
Surrogate: Dibromofluoromethane	54.0			ug/L	50.0		108	80-120			
Surrogate: Toluene-d8	52.4			ug/L	50.0		105	80-120			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppel	Work Order #: 0902742 Date Reported: 07/28/09
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Notes and Definitions

M1	Matrix spike recovery was high, the associated blank spike recovery was acceptable.
J	Parameter was present between the MDL and RL and should be considered an estimated value
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

LEGEND

Technical Services, Inc.

www.legend-group.com

88 Empire Drive
 St Paul, MN 55103
 Tel: 651-642-1150
 Fax: 651-642-1239

090274d

Chain of Custody

4700 West 77th Street
 Minneapolis, MN 55435-4803
 (952) 832-2600

BARR

Project Number: SOC
23/19-805 R02 350
 Project Name: UMare PHZ
07
 NO 28193

Sample Identification	Collection		Matrix Type		Grab	Comp	OC
	Date	Time	Water	Soil			
1. SOC2-TT1-1.5'	09/09	09:00	X	X	X		
2. SOC2-TT2-0.5'		10:45	X	X	X		
3. SOC2-TT3-0.5'		11:45	X	X	X		
4. SOC2-TT4-0.5'		13:30	X	X	X		
5. SOC2-TT5-1.5'		14:30	X	X	X		
6.							
7.							
8.							
9.							
10.							
11.							
12.							

Common Parameter/Container - Preservation Key
 *1 - Volatile Organics = BTEX, GRO TPH, Full List
 *2 - Semivolatile Organics = PAHs, PCP, Phosins, Full List, Herbicide/Pesticide/PCBs
 *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
 *4 - Nutrients = COD, TOC, Phosph, Ammonia Nitrogen, TKN

Number of Containers/Preservative		Soil		Water		Total No. Of Containers	Remarks:
VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH) *1	DRO (2-oz unpreserved)	Metals (2-oz unpreserved)	SVOCS (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)		
X	X		X	X	X	4	Analyze VOC, PPE, Metals, SVOC
X	X		X	X	X	4	
X	X		X	X	X	4	
X	X		X	X	X	4	
X	X		X	X	X	4	
X	X		X	X	X	4	

Project Manager: JME/LSA
 Project Contact: MSH/KBN
 Sampled by: KCB/LMLZ
 Laboratory: Legend

Received by: [Signature] Date: 6/5/09 Time: 16:15
 Received by: [Signature] Date: 6/5/09 Time: 16:15
 Air Bill Number: 912

HT-RLG3-TF-PONMS-Sub-Chain of Custody Form RLG Rev. 07/01/05



88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

July 28, 2009

REVISION

Ms. Kelly Neppi
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0902751
RE: 23/19-0B05.07

This is a revised report. The details of the revision are listed in the case narrative on the following page.

Enclosed are the results of analyses for samples received by the laboratory on 06/09/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of the original report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Erica Nastrom
Client Manager I
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Barb Rutten
Report Reviewer
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Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902751 Date Reported: 07/28/09
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC1-GP1	0902751-01	Water	06/08/09 11:00	06/09/09 13:37
GP-DUP-1	0902751-02	Water	06/08/09 11:05	06/09/09 13:37
SOC1-GP1,0-4	0902751-03	Soil	06/08/09 13:30	06/09/09 13:37
SOC1-GP2,0-4	0902751-04	Soil	06/08/09 14:00	06/09/09 13:37
SOC6-GP6	0902751-05	Water	06/08/09 16:00	06/09/09 13:37
GP-DUP-2	0902751-06	Water	06/08/09 16:15	06/09/09 13:37
SOC3-GP3	0902751-07	Water	06/08/09 17:00	06/09/09 13:37
Trip Blank	0902751-08	Water	05/29/09 00:00	06/09/09 13:37

Shipping Container Information

Default Cooler Temperature (°C): 5.7

Received on ice: Yes Temperature blank was present Received on ice pack: No
 Received on melt water: No Ambient: No Acceptable (IH/ISO only): No
 Custody seals: No

Case Narrative:

This report contains data that were produced by a subcontracted laboratory certified for the fields of testing performed. The total kjeldahl as N and nitrate/nitrite as N analyses for the Clean Water Program were performed by Davy Laboratories, LaCrosse, WI, #055-999-151.

Recovery for vinyl chloride in the batch B9F1105 MS/MSD was above 8260 laboratory limits but within limits in the LCS. The MS/MSD source sample was SOC1-GP1.

Recoveries for the 8270 SVOC compounds 1,4-dichlorobenzene in the batch B9F1505 MS/MSD and 2,4-dinitrotoluene, benzo[a] pyrene, and anthracene in the MSD were below laboratory limits. All spike compounds and surrogates were within limits in the batch method blank and LCS. The MS/MSD source sample was not associated with this work order.

Recovery for the 8081A surrogate decachlorobiphenyl was below the laboratory limit in the water sample SOC6-GP6. All spike compounds and surrogate recoveries in the 8081A batch B9F1507 blank, LCS/LCSD, and MS were acceptable.

An LCS/LCSD/MS were prepared and analyzed for 8081A batch B9F1507 instead of the method specified LCS/MS/MSD. Insufficient sample was received to meet method QC requirements.

Beryllium recoveries in the MS/MSD samples for batch B9F2215 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was sample SOC1-GP1.

This report was revised on 7/28/09 to correct the ICP lead results for samples SOC1-GP1, 0-4, SOC1-GP2, 0-4, and SOC3-GP3.

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DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP1 (0902751-01) Water Sampled: 06/08/09 11:00 Received: 06/09/09 13:37										
Antimony	<0.50	0.50	0.046	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Arsenic	<0.010	0.010	0.0020	mg/L	1	B9F1107	06/12/09	06/15/09	EPA 6010B (Dissolved)	
Beryllium	<0.50	0.50	0.027	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	M2
Cadmium	<0.0010	0.0010	0.000099	mg/L	1	B9F1107	06/12/09	06/15/09	EPA 6010B (Dissolved)	
Chromium	<0.010	0.010	0.00024	mg/L	1	"	"	"	"	
Copper	<0.020	0.020	0.0014	mg/L	1	"	"	"	"	
Lead	<0.0030	0.0030	0.00068	mg/L	1	"	"	"	"	
Mercury	<0.00020	0.00020	0.000031	mg/L	1	B9F1112	06/11/09	06/15/09	EPA 7470A (Dissolved)	
Nickel	<0.0050	0.0050	0.00028	mg/L	1	B9F1107	06/12/09	06/15/09	EPA 6010B (Dissolved)	
Selenium	<0.020	0.020	0.0022	mg/L	1	"	"	"	"	
Silver	<0.0050	0.0050	0.00018	mg/L	1	"	"	"	"	
Thallium	<0.50	0.50	0.0081	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Zinc	<0.020	0.020	0.0044	mg/L	1	B9F1107	06/12/09	06/15/09	EPA 6010B (Dissolved)	
SOC3-GP3 (0902751-07) Water Sampled: 06/08/09 17:00 Received: 06/09/09 13:37										
Antimony	<0.50	0.50	0.046	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	F-01
Arsenic	<0.010	0.010	0.0020	mg/L	1	B9F1107	06/12/09	06/15/09	EPA 6010B (Dissolved)	
Beryllium	<0.50	0.50	0.027	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Cadmium	0.0083	0.0010	0.000099	mg/L	1	B9F1107	06/12/09	06/15/09	EPA 6010B (Dissolved)	
Chromium	0.073	0.010	0.00024	mg/L	1	"	"	"	"	
Copper	0.094	0.020	0.0014	mg/L	1	"	"	"	"	
Lead	0.0057	0.0030	0.00068	mg/L	1	"	"	06/16/09	"	
Mercury	<0.00020	0.00020	0.000031	mg/L	1	B9F1112	06/11/09	06/15/09	EPA 7470A (Dissolved)	
Nickel	0.088	0.0050	0.00028	mg/L	1	B9F1107	06/12/09	06/15/09	EPA 6010B (Dissolved)	
Selenium	<0.020	0.020	0.0022	mg/L	1	"	"	"	"	
Silver	<0.0050	0.0050	0.00018	mg/L	1	"	"	"	"	
Thallium	<0.50	0.50	0.0081	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Zinc	0.12	0.020	0.0044	mg/L	1	B9F1107	06/12/09	06/15/09	EPA 6010B (Dissolved)	

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TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP1,0-4 (0902751-03) Soil Sampled: 06/08/09 13:30 Received: 06/09/09 13:37										
Antimony	<0.53	0.53	0.0059	mg/kg dry	1	B9F1513	06/15/09	06/15/09	EPA 6010B	
Arsenic	3.6	0.53	0.11	mg/kg dry	1	"	"	"	"	
Beryllium	<0.27	0.27	0.012	mg/kg dry	1	"	"	"	"	
Cadmium	<0.27	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chromium	12	0.53	0.013	mg/kg dry	1	"	"	"	"	
Copper	9.3	1.1	0.074	mg/kg dry	1	"	"	"	"	
Lead	3.0	1.1	0.036	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0033	mg/kg dry	1	B9F1111	06/11/09	06/15/09	EPA 7471A	
Nickel	15	0.53	0.015	mg/kg dry	1	B9F1513	06/15/09	06/15/09	EPA 6010B	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Silver	<0.27	0.27	0.0096	mg/kg dry	1	"	"	"	"	
Thallium	<2.1	2.1	0.14	mg/kg dry	1	"	"	"	"	
Zinc	22	1.1	0.23	mg/kg dry	1	"	"	"	"	

SOC1-GP2,0-4 (0902751-04) Soil Sampled: 06/08/09 14:00 Received: 06/09/09 13:37										
Antimony	<0.57	0.57	0.0062	mg/kg dry	1	B9F1513	06/15/09	06/16/09	EPA 6010B	
Arsenic	5.1	0.57	0.11	mg/kg dry	1	"	"	"	"	
Beryllium	<0.28	0.28	0.012	mg/kg dry	1	"	"	"	"	
Cadmium	<0.28	0.28	0.028	mg/kg dry	1	"	"	"	"	
Chromium	14	0.57	0.014	mg/kg dry	1	"	"	"	"	
Copper	7.9	1.1	0.080	mg/kg dry	1	"	"	"	"	
Lead	7.7	1.1	0.039	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0035	mg/kg dry	1	B9F1111	06/11/09	06/15/09	EPA 7471A	
Nickel	12	0.57	0.016	mg/kg dry	1	B9F1513	06/15/09	06/16/09	EPA 6010B	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Silver	<0.28	0.28	0.010	mg/kg dry	1	"	"	"	"	
Thallium	<2.3	2.3	0.15	mg/kg dry	1	"	"	"	"	
Zinc	29	1.1	0.25	mg/kg dry	1	"	"	"	"	

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PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP1,0-4 (0902751-03) Soil Sampled: 06/08/09 13:30 Received: 06/09/09 13:37										
% Solids	94			%	1	B9F1608	06/16/09	06/16/09	%	calculation
SOC1-GP2,0-4 (0902751-04) Soil Sampled: 06/08/09 14:00 Received: 06/09/09 13:37										
% Solids	88			%	1	B9F1608	06/16/09	06/16/09	%	calculation

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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC6-GP6 (0902751-05) Water Sampled: 06/08/09 16:00 Received: 06/09/09 13:37										
4,4'-DDD	<0.034	0.37	0.034	ug/L	1	B9F1507	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
4,4'-DDT	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
a-Chlordane	<0.035	0.37	0.035	ug/L	1	"	"	"	"	
Aldrin	<0.036	0.37	0.036	ug/L	1	"	"	"	"	
alpha-BHC	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
beta-BHC	<0.049	0.37	0.049	ug/L	1	"	"	"	"	
delta-BHC	<0.043	0.37	0.043	ug/L	1	"	"	"	"	
Dieldrin	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
Endosulfan I	<0.037	0.37	0.037	ug/L	1	"	"	"	"	
Endosulfan II	<0.038	0.37	0.038	ug/L	1	"	"	"	"	
Endosulfan sulfate	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
Endrin	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
Endrin aldehyde	<0.047	0.37	0.047	ug/L	1	"	"	"	"	
Endrin ketone	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
gamma-BHC (Lindane)	<0.044	0.37	0.044	ug/L	1	"	"	"	"	
gamma-Chlordane	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
Heptachlor	<0.036	0.37	0.036	ug/L	1	"	"	"	"	
Heptachlor epoxide	<0.038	0.37	0.038	ug/L	1	"	"	"	"	
Methoxychlor	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
Toxaphene	<0.18	0.93	0.18	ug/L	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	80.0					"	"	06/17/09	"	S-GC
Surrogate: Tetrachloro-meta-xylene	75.5					"	"	"	"	

GP-DUP-2 (0902751-06) Water Sampled: 06/08/09 16:15 Received: 06/09/09 13:37										
4,4'-DDD	<0.034	0.37	0.034	ug/L	1	B9F1507	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
4,4'-DDT	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
a-Chlordane	<0.035	0.37	0.035	ug/L	1	"	"	"	"	
Aldrin	<0.036	0.37	0.036	ug/L	1	"	"	"	"	
alpha-BHC	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
beta-BHC	<0.049	0.37	0.049	ug/L	1	"	"	"	"	
delta-BHC	<0.043	0.37	0.043	ug/L	1	"	"	"	"	
Dieldrin	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
Endosulfan I	<0.037	0.37	0.037	ug/L	1	"	"	"	"	
Endosulfan II	<0.038	0.37	0.038	ug/L	1	"	"	"	"	
Endosulfan sulfate	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
Endrin	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
Endrin aldehyde	<0.047	0.37	0.047	ug/L	1	"	"	"	"	

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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-DUP-2 (0902751-06) Water Sampled: 06/08/09 16:15 Received: 06/09/09 13:37										
Endrin ketone	<0.039	0.37	0.039	ug/L	1	B9F1507	06/15/09	06/17/09	EPA 8081A	
gamma-BHC (Lindane)	<0.044	0.37	0.044	ug/L	1	"	"	"	"	
gamma-Chlordane	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
Heptachlor	<0.036	0.37	0.036	ug/L	1	"	"	"	"	
Heptachlor epoxide	<0.038	0.37	0.038	ug/L	1	"	"	"	"	
Methoxychlor	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
Toxaphene	<0.18	0.93	0.18	ug/L	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	83.0			80.6-122 %		"	"	06/17/09	"	
Surrogate: Tetrachloro-meta-xylene	78.0			71.7-111 %		"	"	"	"	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

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 Project Number: 23/19-B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902751
 Date Reported: 07/28/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP1 (0902751-01) Water Sampled: 06/08/09 11:00 Received: 06/09/09 13:37										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9F1505	06/15/09	06/15/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3'-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP1 (0902751-01) Water Sampled: 06/08/09 11:00 Received: 06/09/09 13:37										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9F1505	06/15/09	06/15/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	7.9	9.3	0.21	ug/L	1	"	"	"	"	J
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	87.5			48.5-114 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	79.4			41.7-98.4 %		"	"	"	"	
Surrogate: 2-Fluorophenol	57.7			30-93.5 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	80.5			47.4-97.8 %		"	"	"	"	
Surrogate: Phenol-d6	51.5			30-91.5 %		"	"	"	"	
Surrogate: Terphenyl-d14	46.7			30-108 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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GP-DUP-1 (0902751-02) Water Sampled: 06/08/09 11:05 Received: 06/09/09 13:37

1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9F1505	06/15/09	06/15/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3'-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-DUP-1 (0902751-02) Water Sampled: 06/08/09 11:05 Received: 06/09/09 13:37										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9F1505	06/15/09	06/15/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	55.8			48.5-114 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	71.5			41.7-98.4 %		"	"	"	"	
Surrogate: 2-Fluorophenol	34.9			30-93.5 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	73.4			47.4-97.8 %		"	"	"	"	
Surrogate: Phenol-d6	31.2			30-91.5 %		"	"	"	"	
Surrogate: Terphenyl-d14	40.5			30-108 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP1,0-4 (0902751-03) Soil Sampled: 06/08/09 13:30 Received: 06/09/09 13:37										
1,2,4-Trichlorobenzene	<0.029	0.35	0.029	mg/kg dry	1	B9F1903	06/19/09	06/19/09	EPA 8270C	
1,2-Dichlorobenzene	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.040	0.71	0.040	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.026	0.71	0.026	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.096	0.71	0.096	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.062	0.71	0.062	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.046	0.71	0.046	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.040	0.71	0.040	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.038	0.71	0.038	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.41	1.7	0.41	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.079	0.71	0.079	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.043	0.71	0.043	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.71	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.029	0.71	0.029	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.71	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.096	0.71	0.096	mg/kg dry	1	"	"	"	"	
Anthracene	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
Benzidine	<0.77	2.7	0.77	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.029	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.029	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.036	0.35	0.036	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.032	0.35	0.032	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC1-GP1,0-4 (0902751-03) Soil Sampled: 06/08/09 13:30 Received: 06/09/09 13:37

Benzo (k) fluoranthene	<0.033	0.35	0.033	mg/kg dry	1	B9F1903	06/19/09	06/19/09	EPA 8270C	
Benzoic acid	<0.062	0.35	0.062	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.71	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Chrysene	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.036	0.35	0.036	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.016	0.35	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.039	0.35	0.039	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.017	0.35	0.017	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.044	0.35	0.044	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.034	0.35	0.034	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.031	0.35	0.031	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.032	0.35	0.032	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.034	0.35	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.10	0.71	0.10	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.061	0.71	0.061	mg/kg dry	1	"	"	"	"	
Pyrene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	61.1			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	53.4			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	54.7			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	51.3			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	56.7			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	72.6			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC1-GP2,0-4 (0902751-04) Soil **Sampled: 06/08/09 14:00** **Received: 06/09/09 13:37**

1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9F1903	06/19/09	06/22/09	EPA 8270C	
1,2-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.043	0.76	0.043	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.027	0.76	0.027	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.040	0.76	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.040	0.76	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.76	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.066	0.76	0.066	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.049	0.76	0.049	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.043	0.76	0.043	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.040	0.76	0.040	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.041	0.76	0.041	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.44	1.8	0.44	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.084	0.76	0.084	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.019	0.38	0.019	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.045	0.76	0.045	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.76	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.76	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.76	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.76	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Benzidine	<0.82	2.8	0.82	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP2,0-4 (0902751-04) Soil Sampled: 06/08/09 14:00 Received: 06/09/09 13:37										
Benzo (k) fluoranthene	<0.035	0.38	0.035	mg/kg dry	1	B9F1903	06/19/09	06/22/09	EPA 8270C	
Benzoic acid	<0.066	0.38	0.066	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.76	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.042	0.38	0.042	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Fluorene	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.38	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.047	0.38	0.047	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.036	0.38	0.036	mg/kg dry	1	"	"	"	"	
Isophorone	<0.019	0.38	0.019	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.036	0.38	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.76	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.065	0.76	0.065	mg/kg dry	1	"	"	"	"	
Pyrene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	70.4			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	66.7			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	64.4			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	67.9			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	67.9			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	62.6			43.6-112 %		"	"	"	"	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902751
 Date Reported: 07/28/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-GP3 (0902751-07) Water Sampled: 06/08/09 17:00 Received: 06/09/09 13:37										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9F1505	06/15/09	06/15/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3'-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902751
 Date Reported: 07/28/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-GP3 (0902751-07) Water Sampled: 06/08/09 17:00 Received: 06/09/09 13:37										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9F1505	06/15/09	06/15/09	EPA 8270C	
Benzoic acid	4.8	9.3	1.1	ug/L	1	"	"	"	"	J
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	65.6			48.5-114 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	58.1			41.7-98.4 %		"	"	"	"	
Surrogate: 2-Fluorophenol	40.3			30-93.5 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	72.9			47.4-97.8 %		"	"	"	"	
Surrogate: Phenol-d6	35.1			30-91.5 %		"	"	"	"	
Surrogate: Terphenyl-d14	36.1			30-108 %		"	"	"	"	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902751
 Date Reported: 07/28/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP1 (0902751-01) Water Sampled: 06/08/09 11:00 Received: 06/09/09 13:37										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9F1105	06/11/09	06/11/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP1 (0902751-01) Water Sampled: 06/08/09 11:00 Received: 06/09/09 13:37										
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	B9F1105	06/11/09	06/11/09	EPA 8260B	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	M1
Surrogate: 4-Bromofluorobenzene	114			76.4-125 %		"	"	"	"	
Surrogate: Dibromofluoromethane	107			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	102			80-125 %		"	"	"	"	

GP-DUP-1 (0902751-02) Water Sampled: 06/08/09 11:05 Received: 06/09/09 13:37										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9F1105	06/11/09	06/11/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-DUP-1 (0902751-02) Water Sampled: 06/08/09 11:05 Received: 06/09/09 13:37										
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	B9F1105	06/11/09	06/11/09	EPA 8260B	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	

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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-DUP-1 (0902751-02) Water Sampled: 06/08/09 11:05 Received: 06/09/09 13:37										
Ethyl ether	<0.53	5.0	0.53	ug/L	1	B9F1105	06/11/09	06/11/09	EPA 8260B	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	113			76.4-125 %		"	"	"	"	
Surrogate: Dibromofluoromethane	106			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	102			80-125 %		"	"	"	"	

Trip Blank (0902751-08) Water Sampled: 05/29/09 00:00 Received: 06/09/09 13:37										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9F1105	06/11/09	06/11/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	

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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (0902751-08) Water Sampled: 05/29/09 00:00 Received: 06/09/09 13:37										
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	B9F1105	06/11/09	06/11/09	EPA 8260B	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	

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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (0902751-08) Water Sampled: 05/29/09 00:00 Received: 06/09/09 13:37										
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	B9F1105	06/11/09	06/11/09	EPA 8260B	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	113			76.4-125 %		"	"	"	"	
Surrogate: Dibromofluoromethane	107			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	102			80-125 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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**Analytical Results
 Davy Laboratories, Inc.**

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP1 (0902751-01) Water Sampled: 06/08/09 11:00 Received: 06/09/09 13:37										
Nitrate/Nitrite as N	9.02	0.06	0.02	mg/L	1	N/A		06/17/09	SM 4500 NO3-F-00	
Total Kjeldahl as N	<0.55	0.55	0.15	mg/L	1	"	"	06/16/09	SM 4500 NH3 C-97	
SOC6-GP6 (0902751-05) Water Sampled: 06/08/09 16:00 Received: 06/09/09 13:37										
Nitrate/Nitrite as N	2.13	0.06	0.02	mg/L	1	N/A		06/17/09	SM 4500 NO3-F-00	
Total Kjeldahl as N	0.98	0.55	0.15	mg/L	1	"	"	06/16/09	SM 4500 NH3 C-97	
GP-DUP-2 (0902751-06) Water Sampled: 06/08/09 16:15 Received: 06/09/09 13:37										
Nitrate/Nitrite as N	2.18	0.06	0.02	mg/L	1	N/A		06/17/09	SM 4500 NO3-F-00	
Total Kjeldahl as N	0.88	0.55	0.15	mg/L	1	"	"	06/16/09	SM 4500 NH3 C-97	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902751
 Date Reported: 07/28/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1107 - EPA 200.7/3005A Digestion

Blank (B9F1107-BLK1)

Prepared: 06/12/09 Analyzed: 06/15/09

Arsenic	< 0.010	0.010	0.0020	mg/L							
Cadmium	< 0.0010	0.0010	0.000099	mg/L							
Chromium	< 0.010	0.010	0.00024	mg/L							
Copper	< 0.020	0.020	0.0014	mg/L							
Lead	< 0.0030	0.0030	0.00068	mg/L							
Nickel	< 0.0050	0.0050	0.00028	mg/L							
Selenium	< 0.020	0.020	0.0022	mg/L							
Silver	< 0.0050	0.0050	0.00018	mg/L							
Zinc	< 0.020	0.020	0.0044	mg/L							

LCS (B9F1107-BS1)

Prepared: 06/12/09 Analyzed: 06/15/09

Arsenic	0.362	0.010	0.0020	mg/L	0.399		90.8	80-120			
Cadmium	0.382	0.0010	0.000099	mg/L	0.399		95.6	80-120			
Chromium	0.375	0.010	0.00024	mg/L	0.399		94.1	80-120			
Copper	0.363	0.020	0.0014	mg/L	0.399		90.9	80-120			
Lead	0.379	0.0030	0.00068	mg/L	0.399		95.0	80-120			
Nickel	0.379	0.0050	0.00028	mg/L	0.399		95.0	80-120			
Selenium	0.359	0.020	0.0022	mg/L	0.399		89.9	80-120			
Silver	0.0376	0.0050	0.00018	mg/L	0.0399		94.4	80-120			
Zinc	0.378	0.020	0.0044	mg/L	0.399		94.7	80-120			

LCS Dup (B9F1107-BSD1)

Prepared: 06/12/09 Analyzed: 06/15/09

Arsenic	0.360	0.010	0.0020	mg/L	0.399		90.2	80-120	0.626	20	
Cadmium	0.379	0.0010	0.000099	mg/L	0.399		95.1	80-120	0.597	20	
Chromium	0.373	0.010	0.00024	mg/L	0.399		93.6	80-120	0.550	20	
Copper	0.359	0.020	0.0014	mg/L	0.399		90.1	80-120	0.923	20	
Lead	0.377	0.0030	0.00068	mg/L	0.399		94.4	80-120	0.651	20	
Nickel	0.377	0.0050	0.00028	mg/L	0.399		94.6	80-120	0.463	20	
Selenium	0.357	0.020	0.0022	mg/L	0.399		89.5	80-120	0.445	20	
Silver	0.0374	0.0050	0.00018	mg/L	0.0399		93.8	80-120	0.545	20	
Zinc	0.378	0.020	0.0044	mg/L	0.399		94.7	80-120	0.000347	20	

Matrix Spike (B9F1107-MS1)

Source: 0902751-01

Prepared: 06/12/09 Analyzed: 06/15/09

Arsenic	0.348	0.010	0.0020	mg/L	0.399	<0.010	87.1	75-125			
Cadmium	0.355	0.0010	0.000099	mg/L	0.399	<0.0010	89.0	75-125			
Chromium	0.354	0.010	0.00024	mg/L	0.399	<0.010	88.5	75-125			
Copper	0.345	0.020	0.0014	mg/L	0.399	<0.020	86.5	75-125			
Lead	0.354	0.0030	0.00068	mg/L	0.399	<0.0030	88.6	75-125			
Nickel	0.356	0.0050	0.00028	mg/L	0.399	<0.0050	88.7	75-125			
Selenium	0.347	0.020	0.0022	mg/L	0.399	<0.020	87.0	75-125			
Silver	0.0357	0.0050	0.00018	mg/L	0.0399	<0.0050	89.5	75-125			

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902751
 Date Reported: 07/28/09

DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1107 - EPA 200.7/3005A Digestion

Matrix Spike (B9F1107-MS1) Source: 0902751-01 Prepared: 06/12/09 Analyzed: 06/15/09

Zinc	0.367	0.020	0.0044	mg/L	0.399	<0.020	90.2	75-125			
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Matrix Spike Dup (B9F1107-MSD1) Source: 0902751-01 Prepared: 06/12/09 Analyzed: 06/15/09

Arsenic	0.374	0.010	0.0020	mg/L	0.399	<0.010	93.8	75-125	7.39	20	
Cadmium	0.381	0.0010	0.000099	mg/L	0.399	<0.0010	95.6	75-125	7.12	20	
Chromium	0.381	0.010	0.00024	mg/L	0.399	<0.010	95.2	75-125	7.29	20	
Copper	0.372	0.020	0.0014	mg/L	0.399	<0.020	93.3	75-125	7.59	20	
Lead	0.362	0.0030	0.00068	mg/L	0.399	<0.0030	90.8	75-125	2.37	20	
Nickel	0.384	0.0050	0.00028	mg/L	0.399	<0.0050	95.6	75-125	7.44	20	
Selenium	0.375	0.020	0.0022	mg/L	0.399	<0.020	94.0	75-125	7.70	20	
Silver	0.0386	0.0050	0.00018	mg/L	0.0399	<0.0050	96.6	75-125	7.67	20	
Zinc	0.412	0.020	0.0044	mg/L	0.399	<0.020	102	75-125	11.6	20	

Batch B9F1112 - EPA 245.1/7470A Digestion

Blank (B9F1112-BLK1) Prepared: 06/11/09 Analyzed: 06/15/09

Mercury	< 0.00020	0.00020	0.000031	mg/L							
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LCS (B9F1112-BS1) Prepared: 06/11/09 Analyzed: 06/15/09

Mercury	0.00209	0.00020	0.000031	mg/L	0.00200		104	80-120			
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LCS Dup (B9F1112-BSD1) Prepared: 06/11/09 Analyzed: 06/15/09

Mercury	0.00206	0.00020	0.000031	mg/L	0.00200		103	80-120	1.45	20	
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Matrix Spike (B9F1112-MS1) Source: 0902626-01 Prepared: 06/11/09 Analyzed: 06/15/09

Mercury	0.00178	0.00020	0.000031	mg/L	0.00200	<0.00020	89.0	75-125			
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Matrix Spike Dup (B9F1112-MSD1) Source: 0902626-01 Prepared: 06/11/09 Analyzed: 06/15/09

Mercury	0.00206	0.00020	0.000031	mg/L	0.00200	<0.00020	103	75-125	14.6	20	
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Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F2215 - EPA 200.8 Digestion											
Blank (B9F2215-BLK1)											
											Prepared: 06/22/09 Analyzed: 06/23/09
Antimony	< 0.50	0.50	0.046	ug/L							
Beryllium	< 0.50	0.50	0.027	ug/L							
Thallium	< 0.50	0.50	0.0081	ug/L							
LCS (B9F2215-BS1)											
											Prepared: 06/22/09 Analyzed: 06/23/09
Antimony	18.5	0.50	0.046	ug/L	20.0		92.6	80-120			
Beryllium	21.3	0.50	0.027	ug/L	20.0		106	80-120			
Thallium	18.0	0.50	0.0081	ug/L	20.0		89.9	80-120			
LCS Dup (B9F2215-BSD1)											
											Prepared: 06/22/09 Analyzed: 06/23/09
Antimony	18.3	0.50	0.046	ug/L	20.0		91.7	80-120	0.927	20	
Beryllium	22.1	0.50	0.027	ug/L	20.0		110	80-120	3.63	20	
Thallium	18.6	0.50	0.0081	ug/L	20.0		92.8	80-120	3.17	20	
Matrix Spike (B9F2215-MS1)											
											Source: 0902751-01 Prepared: 06/22/09 Analyzed: 06/23/09
Antimony	19.7	0.50	0.046	ug/L	20.0	<0.50	98.4	75-125			
Beryllium	6.90	0.50	0.027	ug/L	20.0	<0.50	34.5	75-125			M2
Thallium	18.7	0.50	0.0081	ug/L	20.0	<0.50	93.3	75-125			
Matrix Spike Dup (B9F2215-MSD1)											
											Source: 0902751-01 Prepared: 06/22/09 Analyzed: 06/23/09
Antimony	19.9	0.50	0.046	ug/L	20.0	<0.50	99.3	75-125	0.937	20	
Beryllium	7.28	0.50	0.027	ug/L	20.0	<0.50	36.4	75-125	5.35	20	M2
Thallium	19.5	0.50	0.0081	ug/L	20.0	<0.50	97.2	75-125	4.05	20	

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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1111 - EPA 7471A											
Blank (B9F1111-BLK1) Prepared: 06/11/09 Analyzed: 06/15/09											
Mercury	< 0.10	0.10	0.0031	mg/kg wet							
LCS (B9F1111-BS1) Prepared: 06/11/09 Analyzed: 06/15/09											
Mercury	0.205	0.10	0.0031	mg/kg wet	0.200		102	80-120			
LCS Dup (B9F1111-BSD1) Prepared: 06/11/09 Analyzed: 06/15/09											
Mercury	0.203	0.10	0.0031	mg/kg wet	0.200		102	80-120	0.980	20	
Matrix Spike (B9F1111-MS1) Source: 0902742-01 Prepared: 06/11/09 Analyzed: 06/15/09											
Mercury	0.276	0.12	0.0037	mg/kg dry	0.238	<0.12	106	75-125			
Matrix Spike Dup (B9F1111-MSD1) Source: 0902742-01 Prepared: 06/11/09 Analyzed: 06/15/09											
Mercury	0.282	0.12	0.0037	mg/kg dry	0.238	<0.12	108	75-125	2.13	20	
Batch B9F1513 - EPA 3050B											
Blank (B9F1513-BLK1) Prepared: 06/15/09 Analyzed: 06/16/09											
Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							
LCS (B9F1513-BS1) Prepared & Analyzed: 06/15/09											
Antimony	34.9	0.50	0.0055	mg/kg wet	39.9		87.5	80-120			
Arsenic	36.6	0.50	0.10	mg/kg wet	39.9		91.7	80-120			
Beryllium	3.75	0.25	0.011	mg/kg wet	3.99		93.9	80-120			
Cadmium	38.2	0.25	0.025	mg/kg wet	39.9		95.7	80-120			
Chromium	38.1	0.50	0.012	mg/kg wet	39.9		95.6	80-120			
Copper	36.3	1.0	0.070	mg/kg wet	39.9		90.9	80-120			
Lead	37.9	1.0	0.034	mg/kg wet	39.9		95.0	80-120			
Nickel	37.6	0.50	0.014	mg/kg wet	39.9		94.2	80-120			
Selenium	36.6	1.0	0.11	mg/kg wet	39.9		91.7	80-120			
Silver	3.78	0.25	0.0090	mg/kg wet	3.99		94.7	80-120			
Thallium	38.0	2.0	0.13	mg/kg wet	39.9		95.3	80-120			
Zinc	37.7	1.0	0.22	mg/kg wet	39.9		94.5	80-120			

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 Date Reported: 07/28/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1513 - EPA 3050B

LCS Dup (B9F1513-BSD1)

Prepared & Analyzed: 06/15/09

Antimony	36.2	0.50	0.0055	mg/kg wet	39.9		90.7	80-120	3.57	20	
Arsenic	37.4	0.50	0.10	mg/kg wet	39.9		93.6	80-120	2.11	20	
Beryllium	3.81	0.25	0.011	mg/kg wet	3.99		95.6	80-120	1.81	20	
Cadmium	38.9	0.25	0.025	mg/kg wet	39.9		97.5	80-120	1.87	20	
Chromium	38.5	0.50	0.012	mg/kg wet	39.9		96.6	80-120	1.04	20	
Copper	37.0	1.0	0.070	mg/kg wet	39.9		92.7	80-120	2.05	20	
Lead	38.6	1.0	0.034	mg/kg wet	39.9		96.8	80-120	1.83	20	
Nickel	38.2	0.50	0.014	mg/kg wet	39.9		95.8	80-120	1.67	20	
Selenium	37.4	1.0	0.11	mg/kg wet	39.9		93.8	80-120	2.18	20	
Silver	3.83	0.25	0.0090	mg/kg wet	3.99		96.0	80-120	1.39	20	
Thallium	38.8	2.0	0.13	mg/kg wet	39.9		97.2	80-120	2.05	20	
Zinc	38.3	1.0	0.22	mg/kg wet	39.9		96.0	80-120	1.54	20	

Matrix Spike (B9F1513-MS1)

Source: 0902742-01

Prepared & Analyzed: 06/15/09

Antimony	38.0	0.60	0.0065	mg/kg dry	47.5	<0.60	79.6	75-125			
Arsenic	48.9	0.60	0.12	mg/kg dry	47.5	7.19	87.9	75-125			
Beryllium	4.78	0.30	0.013	mg/kg dry	4.75	0.512	89.9	75-125			
Cadmium	42.0	0.30	0.030	mg/kg dry	47.5	0.522	87.3	75-125			
Chromium	62.4	0.60	0.014	mg/kg dry	47.5	19.5	90.2	75-125			
Copper	55.0	1.2	0.083	mg/kg dry	47.5	13.1	88.3	75-125			
Lead	54.0	1.2	0.040	mg/kg dry	47.5	13.3	85.7	75-125			
Nickel	56.1	0.60	0.017	mg/kg dry	47.5	14.9	86.9	75-125			
Selenium	41.1	1.2	0.13	mg/kg dry	47.5	<1.2	86.4	75-125			
Silver	4.20	0.30	0.011	mg/kg dry	4.75	<0.30	88.4	75-125			
Thallium	38.9	2.4	0.15	mg/kg dry	47.5	<2.4	82.0	75-125			
Zinc	108	1.2	0.26	mg/kg dry	47.5	69.9	80.0	75-125			

Matrix Spike Dup (B9F1513-MSD1)

Source: 0902742-01

Prepared & Analyzed: 06/15/09

Antimony	38.0	0.60	0.0065	mg/kg dry	47.5	<0.60	79.6	75-125	0.0632	20	
Arsenic	48.1	0.60	0.12	mg/kg dry	47.5	7.19	86.1	75-125	1.76	20	
Beryllium	4.69	0.30	0.013	mg/kg dry	4.75	0.512	87.9	75-125	2.06	20	
Cadmium	41.7	0.30	0.030	mg/kg dry	47.5	0.522	86.6	75-125	0.771	20	
Chromium	60.4	0.60	0.014	mg/kg dry	47.5	19.5	86.1	75-125	3.21	20	
Copper	54.1	1.2	0.083	mg/kg dry	47.5	13.1	86.3	75-125	1.69	20	
Lead	52.9	1.2	0.040	mg/kg dry	47.5	13.3	83.3	75-125	2.11	20	
Nickel	54.7	0.60	0.017	mg/kg dry	47.5	14.9	83.8	75-125	2.64	20	
Selenium	41.1	1.2	0.13	mg/kg dry	47.5	<1.2	86.6	75-125	0.141	20	
Silver	4.20	0.30	0.011	mg/kg dry	4.75	<0.30	88.3	75-125	0.0674	20	
Thallium	39.1	2.4	0.15	mg/kg dry	47.5	<2.4	82.3	75-125	0.414	20	
Zinc	108	1.2	0.26	mg/kg dry	47.5	69.9	81.0	75-125	0.450	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes	
Batch B9F1608 - General Preparation												
Duplicate (B9F1608-DUP1)							Source: 0902757-03					Prepared & Analyzed: 06/16/09
% Solids	78.0			%		78.0			0.00	20		
Duplicate (B9F1608-DUP2)							Source: 0902779-06					Prepared & Analyzed: 06/16/09
% Solids	79.0			%		81.0			2.50	20		
Duplicate (B9F1608-DUP3)							Source: 0902830-01					Prepared & Analyzed: 06/16/09
% Solids	90.0			%		90.0			0.00	20		

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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1507 - EPA 3510C (Sep Funnel)

Blank (B9F1507-BLK1)

Prepared: 06/15/09 Analyzed: 06/16/09

4,4'-DDD	< 0.037	0.40	0.037	ug/L							
4,4'-DDE	< 0.037	0.40	0.037	ug/L							
4,4'-DDT	< 0.042	0.40	0.042	ug/L							
a-Chlordane	< 0.038	0.40	0.038	ug/L							
Aldrin	< 0.039	0.40	0.039	ug/L							
alpha-BHC	< 0.045	0.40	0.045	ug/L							
beta-BHC	< 0.053	0.40	0.053	ug/L							
delta-BHC	< 0.046	0.40	0.046	ug/L							
Dieldrin	< 0.037	0.40	0.037	ug/L							
Endosulfan I	< 0.040	0.40	0.040	ug/L							
Endosulfan II	< 0.041	0.40	0.041	ug/L							
Endosulfan sulfate	< 0.045	0.40	0.045	ug/L							
Endrin	< 0.042	0.40	0.042	ug/L							
Endrin aldehyde	< 0.051	0.40	0.051	ug/L							
Endrin ketone	< 0.042	0.40	0.042	ug/L							
gamma-BHC (Lindane)	< 0.047	0.40	0.047	ug/L							
gamma-Chlordane	< 0.037	0.40	0.037	ug/L							
Heptachlor	< 0.039	0.40	0.039	ug/L							
Heptachlor epoxide	< 0.041	0.40	0.041	ug/L							
Methoxychlor	< 0.045	0.40	0.045	ug/L							
Toxaphene	< 0.19	1.0	0.19	ug/L							
Surrogate: Decachlorobiphenyl	0.860			ug/L	1.00		86.0	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.770			ug/L	1.00		77.0	71.7-111			

LCS (B9F1507-BS1)

Prepared: 06/15/09 Analyzed: 06/16/09

4,4'-DDD	1.12	0.40	0.037	ug/L	1.25		89.6	70-130			
4,4'-DDE	1.10	0.40	0.037	ug/L	1.25		87.6	70-130			
4,4'-DDT	1.14	0.40	0.042	ug/L	1.25		91.2	70-130			
a-Chlordane	1.08	0.40	0.038	ug/L	1.25		86.8	70-130			
Aldrin	1.04	0.40	0.039	ug/L	1.25		83.2	70-130			
alpha-BHC	1.09	0.40	0.045	ug/L	1.25		87.2	70-130			
beta-BHC	1.05	0.40	0.053	ug/L	1.25		84.0	70-130			
delta-BHC	1.10	0.40	0.046	ug/L	1.25		88.4	70-130			
Dieldrin	1.08	0.40	0.037	ug/L	1.25		86.8	70-130			
Endosulfan I	1.09	0.40	0.040	ug/L	1.25		87.2	70-130			
Endosulfan II	1.10	0.40	0.041	ug/L	1.25		87.6	70-130			
Endosulfan sulfate	1.10	0.40	0.045	ug/L	1.25		87.6	70-130			
Endrin	1.12	0.40	0.042	ug/L	1.25		89.2	70-130			
Endrin aldehyde	1.14	0.40	0.051	ug/L	1.25		91.6	70-130			
Endrin ketone	1.10	0.40	0.042	ug/L	1.25		88.0	70-130			

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 Date Reported: 07/28/09

PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1507 - EPA 3510C (Sep Funnel)

LCS (B9F1507-BS1)

Prepared: 06/15/09 Analyzed: 06/16/09

gamma-BHC (Lindane)	1.10	0.40	0.047	ug/L	1.25		88.0	70-130			
gamma-Chlordane	1.06	0.40	0.037	ug/L	1.25		85.2	70-130			
Heptachlor	1.06	0.40	0.039	ug/L	1.25		85.2	70-130			
Heptachlor epoxide	1.09	0.40	0.041	ug/L	1.25		87.2	70-130			
Methoxychlor	1.15	0.40	0.045	ug/L	1.25		92.0	70-130			
Surrogate: Decachlorobiphenyl	0.920			ug/L	1.00		92.0	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.855			ug/L	1.00		85.5	71.7-111			

LCS Dup (B9F1507-BSD1)

Prepared: 06/15/09 Analyzed: 06/17/09

Q9, QM-10

4,4'-DDD	1.16	0.40	0.037	ug/L	1.25		92.4	70-130	3.08	20	
4,4'-DDE	1.15	0.40	0.037	ug/L	1.25		92.0	70-130	4.90	20	
4,4'-DDT	1.22	0.40	0.042	ug/L	1.25		97.2	70-130	6.37	20	
a-Chlordane	1.15	0.40	0.038	ug/L	1.25		92.0	70-130	5.82	20	
Aldrin	1.11	0.40	0.039	ug/L	1.25		88.8	70-130	6.51	20	
alpha-BHC	1.17	0.40	0.045	ug/L	1.25		93.6	70-130	7.08	20	
beta-BHC	1.12	0.40	0.053	ug/L	1.25		89.6	70-130	6.45	20	
delta-BHC	1.18	0.40	0.046	ug/L	1.25		94.4	70-130	6.56	20	
Dieldrin	1.15	0.40	0.037	ug/L	1.25		92.0	70-130	5.82	20	
Endosulfan I	1.15	0.40	0.040	ug/L	1.25		92.0	70-130	5.36	20	
Endosulfan II	1.14	0.40	0.041	ug/L	1.25		91.2	70-130	4.03	20	
Endosulfan sulfate	1.16	0.40	0.045	ug/L	1.25		92.4	70-130	5.33	20	
Endrin	1.19	0.40	0.042	ug/L	1.25		95.2	70-130	6.51	20	
Endrin aldehyde	1.18	0.40	0.051	ug/L	1.25		94.4	70-130	3.01	20	
Endrin ketone	1.14	0.40	0.042	ug/L	1.25		91.6	70-130	4.01	20	
gamma-BHC (Lindane)	1.18	0.40	0.047	ug/L	1.25		94.0	70-130	6.59	20	
gamma-Chlordane	1.12	0.40	0.037	ug/L	1.25		90.0	70-130	5.48	20	
Heptachlor	1.14	0.40	0.039	ug/L	1.25		91.6	70-130	7.24	20	
Heptachlor epoxide	1.16	0.40	0.041	ug/L	1.25		92.8	70-130	6.22	20	
Methoxychlor	1.22	0.40	0.045	ug/L	1.25		97.2	70-130	5.50	20	
Surrogate: Decachlorobiphenyl	0.920			ug/L	1.00		92.0	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.915			ug/L	1.00		91.5	71.7-111			

Matrix Spike (B9F1507-MS1)

Source: 0902812-04

Prepared: 06/15/09 Analyzed: 06/17/09

4,4'-DDD	1.13	0.37	0.034	ug/L	1.16	<0.37	98.0	70-130			
4,4'-DDE	1.15	0.37	0.034	ug/L	1.16	<0.37	99.6	70-130			
4,4'-DDT	1.21	0.37	0.039	ug/L	1.16	<0.37	105	70-130			
a-Chlordane	1.15	0.37	0.035	ug/L	1.16	<0.37	99.6	70-130			
Aldrin	1.15	0.37	0.036	ug/L	1.16	<0.37	99.6	70-130			
alpha-BHC	1.13	0.37	0.042	ug/L	1.16	<0.37	98.0	70-130			
beta-BHC	1.06	0.37	0.049	ug/L	1.16	<0.37	92.0	70-130			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1507 - EPA 3510C (Sep Funnel)											
Matrix Spike (B9F1507-MS1)		Source: 0902812-04				Prepared: 06/15/09		Analyzed: 06/17/09			
delta-BHC	1.13	0.37	0.043	ug/L	1.16	<0.37	98.0	70-130			
Dieldrin	1.14	0.37	0.034	ug/L	1.16	<0.37	98.8	70-130			
Endosulfan I	1.15	0.37	0.037	ug/L	1.16	<0.37	99.2	70-130			
Endosulfan II	1.13	0.37	0.038	ug/L	1.16	<0.37	97.6	70-130			
Endosulfan sulfate	1.13	0.37	0.042	ug/L	1.16	<0.37	98.0	70-130			
Endrin	1.19	0.37	0.039	ug/L	1.16	<0.37	102	70-130			
Endrin aldehyde	1.13	0.37	0.047	ug/L	1.16	<0.37	98.0	70-130			
Endrin ketone	1.12	0.37	0.039	ug/L	1.16	<0.37	96.4	70-130			
gamma-BHC (Lindane)	1.13	0.37	0.044	ug/L	1.16	<0.37	98.0	70-130			
gamma-Chlordane	1.12	0.37	0.034	ug/L	1.16	<0.37	97.2	70-130			
Heptachlor	1.16	0.37	0.036	ug/L	1.16	<0.37	100	70-130			
Heptachlor epoxide	1.15	0.37	0.038	ug/L	1.16	<0.37	99.6	70-130			
Methoxychlor	1.20	0.37	0.042	ug/L	1.16	<0.37	104	70-130			
Surrogate: Decachlorobiphenyl	0.894			ug/L	0.926		96.5	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.921			ug/L	0.926		99.5	71.7-111			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1505 - EPA 3510C (Sep Funnel)

Blank (B9F1505-BLK1)

Prepared & Analyzed: 06/15/09

1,2,4-Trichlorobenzene	< 0.19	10	0.19	ug/L							
1,2-Dichlorobenzene	< 0.23	10	0.23	ug/L							
1,2-Diphenylhydrazine as Azobenzene	< 0.24	10	0.24	ug/L							
1,3-Dichlorobenzene	< 0.21	10	0.21	ug/L							
1,4-Dichlorobenzene	< 0.22	10	0.22	ug/L							
2,3,4,6-Tetrachlorophenol	< 0.61	10	0.61	ug/L							
2,4,5-Trichlorophenol	< 0.80	10	0.80	ug/L							
2,4,6-Trichlorophenol	< 0.48	10	0.48	ug/L							
2,4-Dichlorophenol	< 0.47	10	0.47	ug/L							
2,4-Dimethylphenol	< 1.6	10	1.6	ug/L							
2,4-Dinitrophenol	< 1.0	10	1.0	ug/L							
2,4-Dinitrotoluene	< 0.33	10	0.33	ug/L							
2,6-Dichlorophenol	< 0.48	10	0.48	ug/L							
2,6-Dinitrotoluene	< 0.36	10	0.36	ug/L							
2-Chloronaphthalene	< 0.28	10	0.28	ug/L							
2-Chlorophenol	< 0.45	10	0.45	ug/L							
2-Methylnaphthalene	< 0.66	10	0.66	ug/L							
2-Methylphenol	< 0.63	10	0.63	ug/L							
2-Nitroaniline	< 0.72	10	0.72	ug/L							
2-Nitrophenol	< 0.90	10	0.90	ug/L							
3,3'-Dichlorobenzidine	< 7.3	25	7.3	ug/L							
3-Nitroaniline	< 1.2	10	1.2	ug/L							
4,6-Dinitro-2-methylphenol	< 0.65	10	0.65	ug/L							
4-Bromophenyl phenyl ether	< 0.17	10	0.17	ug/L							
4-Chloro-3-methylphenol	< 0.55	10	0.55	ug/L							
4-Chloroaniline	< 2.3	10	2.3	ug/L							
4-Chlorophenyl phenyl ether	< 0.25	10	0.25	ug/L							
4-Methylphenol	< 0.79	10	0.79	ug/L							
4-Nitroaniline	< 0.59	10	0.59	ug/L							
4-Nitrophenol	< 1.2	10	1.2	ug/L							
Acenaphthene	< 0.36	10	0.36	ug/L							
Acenaphthylene	< 0.25	10	0.25	ug/L							
Aniline	< 2.2	10	2.2	ug/L							
Anthracene	< 0.37	10	0.37	ug/L							
Benzidine	< 18	100	18	ug/L							
Benzo (a) anthracene	< 0.37	10	0.37	ug/L							
Benzo (a) pyrene	< 0.29	10	0.29	ug/L							
Benzo (b) fluoranthene	< 0.22	10	0.22	ug/L							
Benzo (g,h,i) perylene	< 0.26	10	0.26	ug/L							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1505 - EPA 3510C (Sep Funnel)

Blank (B9F1505-BLK1)

Prepared & Analyzed: 06/15/09

Benzo (k) fluoranthene	< 0.31	10	0.31	ug/L							
Benzoic acid	< 1.2	10	1.2	ug/L							
Benzyl alcohol	< 0.54	10	0.54	ug/L							
Bis(2-chloroethoxy)methane	< 0.18	10	0.18	ug/L							
Bis(2-chloroethyl)ether	< 0.17	10	0.17	ug/L							
Bis(2-chloroisopropyl)ether	< 0.19	10	0.19	ug/L							
Bis(2-ethylhexyl)phthalate	< 0.43	10	0.43	ug/L							
Butyl benzyl phthalate	< 0.37	10	0.37	ug/L							
Carbazole	< 0.26	10	0.26	ug/L							
Chrysene	< 0.27	10	0.27	ug/L							
Dibenz (a,h) anthracene	< 0.23	10	0.23	ug/L							
Dibenzofuran	< 0.39	10	0.39	ug/L							
Diethyl phthalate	< 0.23	10	0.23	ug/L							
Dimethyl phthalate	< 0.24	10	0.24	ug/L							
Di-n-butyl phthalate	< 0.28	10	0.28	ug/L							
Di-n-octyl phthalate	< 0.38	10	0.38	ug/L							
Fluoranthene	< 0.39	10	0.39	ug/L							
Fluorene	< 0.40	10	0.40	ug/L							
Hexachlorobenzene	< 0.20	10	0.20	ug/L							
Hexachlorobutadiene	< 0.26	10	0.26	ug/L							
Hexachlorocyclopentadiene	< 0.31	10	0.31	ug/L							
Hexachloroethane	< 0.31	10	0.31	ug/L							
Indeno (1,2,3-cd) pyrene	< 0.31	10	0.31	ug/L							
Isophorone	< 0.23	10	0.23	ug/L							
Naphthalene	< 0.37	10	0.37	ug/L							
Nitrobenzene	< 0.39	10	0.39	ug/L							
N-Nitrosodimethylamine	< 0.95	10	0.95	ug/L							
N-Nitrosodi-n-propylamine	< 0.21	10	0.21	ug/L							
N-Nitrosodiphenylamine	< 0.23	10	0.23	ug/L							
Pentachlorophenol	< 0.59	10	0.59	ug/L							
Phenanthrene	< 0.39	10	0.39	ug/L							
Phenol	< 0.57	10	0.57	ug/L							
Pyrene	< 0.47	10	0.47	ug/L							
Surrogate: 2,4,6-Tribromophenol	91.6			ug/L	100		91.6	48.5-114			
Surrogate: 2-Fluorobiphenyl	79.2			ug/L	100		79.2	41.7-98.4			
Surrogate: 2-Fluorophenol	68.4			ug/L	100		68.4	30-93.5			
Surrogate: Nitrobenzene-d5	83.2			ug/L	100		83.2	47.4-97.8			
Surrogate: Phenol-d6	61.5			ug/L	100		61.5	30-91.5			
Surrogate: Terphenyl-d14	80.7			ug/L	100		80.7	30-108			

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902751
 Date Reported: 07/28/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1505 - EPA 3510C (Sep Funnel)

LCS (B9F1505-BS1)

Prepared & Analyzed: 06/15/09

1,2,4-Trichlorobenzene	74.8	10	0.19	ug/L	100	74.8	48.2-88.3				
1,4-Dichlorobenzene	60.6	10	0.22	ug/L	100	60.6	42.8-82.2				
2,4-Dinitrotoluene	76.4	10	0.33	ug/L	100	76.4	64.6-98.9				
2-Chlorophenol	76.7	10	0.45	ug/L	100	76.7	56.5-88.1				
4-Chloro-3-methylphenol	80.5	10	0.55	ug/L	100	80.5	63.4-95.2				
4-Nitrophenol	72.3	10	1.2	ug/L	100	72.3	51.3-90.6				
Anthracene	85.4	10	0.37	ug/L	100	85.4	66.7-92.8				
Benzo (a) anthracene	89.8	10	0.37	ug/L	100	89.8	72.7-97.2				
Benzo (a) pyrene	91.0	10	0.29	ug/L	100	91.0	66.4-101				
Chrysene	88.8	10	0.27	ug/L	100	88.8	71.5-98.1				
Fluoranthene	86.4	10	0.39	ug/L	100	86.4	68.8-94				
Fluorene	84.4	10	0.40	ug/L	100	84.4	64.2-94.4				
N-Nitrosodi-n-propylamine	82.6	10	0.21	ug/L	100	82.6	63.6-92.8				
Pentachlorophenol	86.3	10	0.59	ug/L	100	86.3	60.2-101				
Phenanthrene	86.2	10	0.39	ug/L	100	86.2	68.1-94.8				
Phenol	56.8	10	0.57	ug/L	100	56.8	39.6-71				
Surrogate: 2,4,6-Tribromophenol	90.2			ug/L	100	90.2	48.5-114				
Surrogate: 2-Fluorobiphenyl	79.6			ug/L	100	79.6	41.7-98.4				
Surrogate: 2-Fluorophenol	69.1			ug/L	100	69.1	30-93.5				
Surrogate: Nitrobenzene-d5	83.0			ug/L	100	83.0	47.4-97.8				
Surrogate: Phenol-d6	63.9			ug/L	100	63.9	30-91.5				
Surrogate: Terphenyl-d14	83.1			ug/L	100	83.1	30-108				

Matrix Spike (B9F1505-MS1)

Source: 0902771-01

Prepared & Analyzed: 06/15/09

1,2,4-Trichlorobenzene	47.5	9.3	0.18	ug/L	92.6	<9.3	51.3	43.8-87.4			
1,4-Dichlorobenzene	39.7	9.3	0.20	ug/L	92.6	<9.3	42.9	43.7-78.7			M2
2,4-Dinitrotoluene	51.6	9.3	0.31	ug/L	92.6	<9.3	55.7	52.8-100			
2-Chlorophenol	53.8	9.3	0.42	ug/L	92.6	<9.3	58.1	30.1-95			
4-Chloro-3-methylphenol	54.5	9.3	0.51	ug/L	92.6	<9.3	58.8	44.8-98.7			
4-Nitrophenol	60.7	9.3	1.1	ug/L	92.6	<9.3	65.5	32.5-99.6			
Anthracene	41.5	9.3	0.34	ug/L	92.6	<9.3	44.8	44.8-97.6			
Benzo (a) anthracene	41.7	9.3	0.34	ug/L	92.6	<9.3	45.0	30-115			
Benzo (a) pyrene	32.6	9.3	0.27	ug/L	92.6	<9.3	35.2	30-110			
Chrysene	41.9	9.3	0.25	ug/L	92.6	<9.3	45.3	30-115			
Fluoranthene	50.3	9.3	0.36	ug/L	92.6	<9.3	54.3	37.4-103			
Fluorene	51.7	9.3	0.37	ug/L	92.6	<9.3	55.9	49.6-92.1			
N-Nitrosodi-n-propylamine	56.4	9.3	0.19	ug/L	92.6	<9.3	60.9	44.9-100			
Pentachlorophenol	54.8	9.3	0.55	ug/L	92.6	<9.3	59.1	31.2-123			
Phenanthrene	53.4	9.3	0.36	ug/L	92.6	<9.3	57.7	47-99.1			
Phenol	41.0	9.3	0.53	ug/L	92.6	<9.3	44.3	30-79.5			

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902751
 Date Reported: 07/28/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1505 - EPA 3510C (Sep Funnel)

Matrix Spike (B9F1505-MS1)

Source: 0902771-01

Prepared & Analyzed: 06/15/09

Surrogate: 2,4,6-Tribromophenol	53.8			ug/L	92.6		58.1	48.5-114			
Surrogate: 2-Fluorobiphenyl	48.2			ug/L	92.6		52.0	41.7-98.4			
Surrogate: 2-Fluorophenol	47.3			ug/L	92.6		51.1	30-93.5			
Surrogate: Nitrobenzene-d5	55.9			ug/L	92.6		60.4	47.4-97.8			
Surrogate: Phenol-d6	44.9			ug/L	92.6		48.5	30-91.5			
Surrogate: Terphenyl-d14	33.9			ug/L	92.6		36.6	30-108			

Matrix Spike Dup (B9F1505-MSD1)

Source: 0902771-01

Prepared & Analyzed: 06/15/09

1,2,4-Trichlorobenzene	46.1	9.3	0.18	ug/L	92.6	<9.3	49.8	43.8-87.4	3.02	28.2	
1,4-Dichlorobenzene	39.5	9.3	0.20	ug/L	92.6	<9.3	42.7	43.7-78.7	0.412	25	M2
2,4-Dinitrotoluene	48.7	9.3	0.31	ug/L	92.6	<9.3	52.5	52.8-100	5.81	15	M2
2-Chlorophenol	50.0	9.3	0.42	ug/L	92.6	<9.3	54.0	30.1-95	7.16	27.5	
4-Chloro-3-methylphenol	50.6	9.3	0.51	ug/L	92.6	<9.3	54.6	44.8-98.7	7.41	27.6	
4-Nitrophenol	53.7	9.3	1.1	ug/L	92.6	<9.3	58.0	32.5-99.6	12.2	35	
Anthracene	34.6	9.3	0.34	ug/L	92.6	<9.3	37.3	44.8-97.6	18.3	21	M2
Benzo (a) anthracene	36.9	9.3	0.34	ug/L	92.6	<9.3	39.8	30-115	12.3	33.7	
Benzo (a) pyrene	27.7	9.3	0.27	ug/L	92.6	<9.3	29.9	30-110	16.2	33.8	M2
Chrysene	37.8	9.3	0.25	ug/L	92.6	<9.3	40.8	30-115	10.4	35.1	
Fluoranthene	45.8	9.3	0.36	ug/L	92.6	<9.3	49.5	37.4-103	9.21	29.1	
Fluorene	49.3	9.3	0.37	ug/L	92.6	<9.3	53.3	49.6-92.1	4.76	19.7	
N-Nitrosodi-n-propylamine	55.8	9.3	0.19	ug/L	92.6	<9.3	60.3	44.9-100	1.01	18.6	
Pentachlorophenol	50.0	9.3	0.55	ug/L	92.6	<9.3	54.0	31.2-123	9.08	32.2	
Phenanthrene	50.1	9.3	0.36	ug/L	92.6	<9.3	54.2	47-99.1	6.37	18.4	
Phenol	35.6	9.3	0.53	ug/L	92.6	<9.3	38.5	30-79.5	14.1	33.6	
Surrogate: 2,4,6-Tribromophenol	48.7			ug/L	92.6		52.6	48.5-114			
Surrogate: 2-Fluorobiphenyl	46.9			ug/L	92.6		50.7	41.7-98.4			
Surrogate: 2-Fluorophenol	42.7			ug/L	92.6		46.1	30-93.5			
Surrogate: Nitrobenzene-d5	56.6			ug/L	92.6		61.1	47.4-97.8			
Surrogate: Phenol-d6	38.9			ug/L	92.6		42.0	30-91.5			
Surrogate: Terphenyl-d14	30.8			ug/L	92.6		33.3	30-108			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1903 - EPA 3545 ASE Extraction

Blank (B9F1903-BLK1)

Prepared: 06/19/09 Analyzed: 06/22/09

1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3'-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1903 - EPA 3545 ASE Extraction

Blank (B9F1903-BLK1)

Prepared: 06/19/09 Analyzed: 06/22/09

Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	4.25			mg/kg wet	6.67		63.8	47.2-108			
Surrogate: 2-Fluorobiphenyl	4.01			mg/kg wet	6.67		60.1	53.2-85.1			
Surrogate: 2-Fluorophenol	3.87			mg/kg wet	6.67		58.0	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.08			mg/kg wet	6.67		61.3	49.1-86.9			
Surrogate: Phenol-d6	4.07			mg/kg wet	6.67		61.1	47.6-99.6			
Surrogate: Terphenyl-d14	4.36			mg/kg wet	6.67		65.4	43.6-112			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1903 - EPA 3545 ASE Extraction

LCS (B9F1903-BS1)

Prepared: 06/19/09 Analyzed: 06/22/09

1,2,4-Trichlorobenzene	4.22	0.33	0.027	mg/kg wet	6.67		63.4	50.7-82.1			
1,4-Dichlorobenzene	3.56	0.33	0.024	mg/kg wet	6.67		53.4	44-77			
2,4-Dinitrotoluene	4.76	0.33	0.021	mg/kg wet	6.67		71.5	56.7-81.7			
2-Chlorophenol	4.30	0.67	0.038	mg/kg wet	6.67		64.6	52.3-88.2			
4-Chloro-3-methylphenol	4.69	0.67	0.040	mg/kg wet	6.67		70.3	53.4-87			
4-Nitrophenol	5.12	0.67	0.099	mg/kg wet	6.67		76.8	55.7-87.1			
Anthracene	5.19	0.33	0.025	mg/kg wet	6.67		77.9	65.3-92			
Benzo (a) anthracene	5.51	0.33	0.027	mg/kg wet	6.67		82.7	69-95.3			
Benzo (a) pyrene	5.41	0.33	0.027	mg/kg wet	6.67		81.2	68.5-98.2			
Chrysene	5.48	0.33	0.033	mg/kg wet	6.67		82.2	68.6-94.2			
Fluoranthene	5.59	0.33	0.024	mg/kg wet	6.67		83.9	64.3-94.6			
Fluorene	5.04	0.33	0.018	mg/kg wet	6.67		75.6	61.9-89.4			
N-Nitrosodi-n-propylamine	4.74	0.33	0.025	mg/kg wet	6.67		71.1	55.5-91.1			
Pentachlorophenol	4.85	0.67	0.096	mg/kg wet	6.67		72.8	54.7-74.6			
Phenanthrene	5.19	0.33	0.019	mg/kg wet	6.67		77.9	64.3-90.9			
Phenol	4.44	0.67	0.057	mg/kg wet	6.67		66.6	49.7-85.4			
<i>Surrogate: 2,4,6-Tribromophenol</i>	4.79			mg/kg wet	6.67		71.8	47.2-108			
<i>Surrogate: 2-Fluorobiphenyl</i>	4.60			mg/kg wet	6.67		69.0	53.2-85.1			
<i>Surrogate: 2-Fluorophenol</i>	4.18			mg/kg wet	6.67		62.6	48.5-90.1			
<i>Surrogate: Nitrobenzene-d5</i>	4.42			mg/kg wet	6.67		66.4	49.1-86.9			
<i>Surrogate: Phenol-d6</i>	4.68			mg/kg wet	6.67		70.2	47.6-99.6			
<i>Surrogate: Terphenyl-d14</i>	4.70			mg/kg wet	6.67		70.5	43.6-112			

Matrix Spike (B9F1903-MS1)

Source: 0902751-03

Prepared: 06/19/09 Analyzed: 06/22/09

1,2,4-Trichlorobenzene	4.25	0.35	0.029	mg/kg dry	7.15	<0.35	59.4	51-77.5			
1,4-Dichlorobenzene	3.35	0.35	0.026	mg/kg dry	7.15	<0.35	46.8	41.7-73.4			
2,4-Dinitrotoluene	4.67	0.35	0.022	mg/kg dry	7.15	<0.35	65.2	50-84.8			
2-Chlorophenol	4.42	0.71	0.040	mg/kg dry	7.15	<0.71	61.8	47.8-90.8			
4-Chloro-3-methylphenol	4.82	0.71	0.043	mg/kg dry	7.15	<0.71	67.3	48.4-95.1			
4-Nitrophenol	4.84	0.71	0.11	mg/kg dry	7.15	<0.71	67.6	44-105			
Anthracene	5.09	0.35	0.027	mg/kg dry	7.15	<0.35	71.2	60.2-97.3			
Benzo (a) anthracene	5.35	0.35	0.029	mg/kg dry	7.15	<0.35	74.8	59.8-102			
Benzo (a) pyrene	5.30	0.35	0.029	mg/kg dry	7.15	<0.35	74.1	57.2-105			
Chrysene	5.28	0.35	0.035	mg/kg dry	7.15	<0.35	73.8	59.2-102			
Fluoranthene	5.36	0.35	0.026	mg/kg dry	7.15	<0.35	74.9	50.4-108			
Fluorene	5.06	0.35	0.019	mg/kg dry	7.15	<0.35	70.8	57.8-94.4			
N-Nitrosodi-n-propylamine	4.70	0.35	0.027	mg/kg dry	7.15	<0.35	65.7	46.2-96.2			
Pentachlorophenol	4.74	0.71	0.10	mg/kg dry	7.15	<0.71	66.2	53.6-80.4			
Phenanthrene	5.06	0.35	0.020	mg/kg dry	7.15	<0.35	70.8	58.4-97.5			
Phenol	4.51	0.71	0.061	mg/kg dry	7.15	<0.71	63.1	44-88.5			

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902751
 Date Reported: 07/28/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1903 - EPA 3545 ASE Extraction

Matrix Spike (B9F1903-MS1)

Source: 0902751-03

Prepared: 06/19/09 Analyzed: 06/22/09

Surrogate: 2,4,6-Tribromophenol	4.73			mg/kg dry	7.15		66.1	47.2-108			
Surrogate: 2-Fluorobiphenyl	4.60			mg/kg dry	7.15		64.3	53.2-85.1			
Surrogate: 2-Fluorophenol	4.17			mg/kg dry	7.15		58.3	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.46			mg/kg dry	7.15		62.3	49.1-86.9			
Surrogate: Phenol-d6	4.73			mg/kg dry	7.15		66.1	47.6-99.6			
Surrogate: Terphenyl-d14	4.55			mg/kg dry	7.15		63.6	43.6-112			

Matrix Spike Dup (B9F1903-MSD1)

Source: 0902751-03

Prepared: 06/19/09 Analyzed: 06/22/09

1,2,4-Trichlorobenzene	4.32	0.35	0.029	mg/kg dry	7.16	<0.35	60.4	51-77.5	1.82	15.7	
1,4-Dichlorobenzene	3.62	0.35	0.026	mg/kg dry	7.16	<0.35	50.6	41.7-73.4	7.92	14.7	
2,4-Dinitrotoluene	4.67	0.35	0.022	mg/kg dry	7.16	<0.35	65.2	50-84.8	0.0279	20.5	
2-Chlorophenol	4.16	0.71	0.040	mg/kg dry	7.16	<0.71	58.1	47.8-90.8	6.03	19.8	
4-Chloro-3-methylphenol	4.35	0.71	0.043	mg/kg dry	7.16	<0.71	60.8	48.4-95.1	10.0	18.7	
4-Nitrophenol	4.81	0.71	0.11	mg/kg dry	7.16	<0.71	67.2	44-105	0.632	30.9	
Anthracene	5.33	0.35	0.027	mg/kg dry	7.16	<0.35	74.5	60.2-97.3	4.61	15.1	
Benzo (a) anthracene	5.62	0.35	0.029	mg/kg dry	7.16	<0.35	78.5	59.8-102	4.89	19.6	
Benzo (a) pyrene	5.52	0.35	0.029	mg/kg dry	7.16	<0.35	77.1	57.2-105	4.07	19.4	
Chrysene	5.53	0.35	0.035	mg/kg dry	7.16	<0.35	77.2	59.2-102	4.50	19.6	
Fluoranthene	5.63	0.35	0.026	mg/kg dry	7.16	<0.35	78.6	50.4-108	4.88	21	
Fluorene	4.86	0.35	0.019	mg/kg dry	7.16	<0.35	67.9	57.8-94.4	4.01	15.8	
N-Nitrosodi-n-propylamine	4.52	0.35	0.027	mg/kg dry	7.16	<0.35	63.2	46.2-96.2	3.86	17.1	
Pentachlorophenol	4.99	0.71	0.10	mg/kg dry	7.16	<0.71	69.7	53.6-80.4	5.23	22.4	
Phenanthrene	5.26	0.35	0.020	mg/kg dry	7.16	<0.35	73.5	58.4-97.5	3.87	14.3	
Phenol	4.14	0.71	0.061	mg/kg dry	7.16	<0.71	57.8	44-88.5	8.75	21.5	
Surrogate: 2,4,6-Tribromophenol	4.77			mg/kg dry	7.16		66.7	47.2-108			
Surrogate: 2-Fluorobiphenyl	4.35			mg/kg dry	7.16		60.8	53.2-85.1			
Surrogate: 2-Fluorophenol	3.99			mg/kg dry	7.16		55.7	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.44			mg/kg dry	7.16		62.0	49.1-86.9			
Surrogate: Phenol-d6	4.48			mg/kg dry	7.16		62.6	47.6-99.6			
Surrogate: Terphenyl-d14	4.77			mg/kg dry	7.16		66.6	43.6-112			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1105 - Volatiles

Blank (B9F1105-BLK1)

Prepared & Analyzed: 06/11/09

1,1,1,2-Tetrachloroethane	< 0.28	1.0	0.28	ug/L							
1,1,1-Trichloroethane	< 0.17	1.0	0.17	ug/L							
1,1,2,2-Tetrachloroethane	< 0.13	1.0	0.13	ug/L							
1,1,2-Trichloroethane	< 0.19	1.0	0.19	ug/L							
1,1,2-Trichlorotrifluoroethane	< 0.28	1.0	0.28	ug/L							
1,1-Dichloroethane	< 0.11	1.0	0.11	ug/L							
1,1-Dichloroethene	< 0.12	1.0	0.12	ug/L							
1,1-Dichloropropene	< 0.15	1.0	0.15	ug/L							
1,2,3-Trichlorobenzene	< 0.47	5.0	0.47	ug/L							
1,2,3-Trichloropropane	< 0.24	2.5	0.24	ug/L							
1,2,4-Trichlorobenzene	< 0.32	5.0	0.32	ug/L							
1,2,4-Trimethylbenzene	< 0.17	1.0	0.17	ug/L							
1,2-Dibromo-3-chloropropane	< 0.60	5.0	0.60	ug/L							
1,2-Dibromoethane (EDB)	< 0.37	2.5	0.37	ug/L							
1,2-Dichlorobenzene	< 0.16	1.0	0.16	ug/L							
1,2-Dichloroethane	< 0.18	1.0	0.18	ug/L							
1,2-Dichloropropane	< 0.21	1.0	0.21	ug/L							
1,3,5-Trimethylbenzene	< 0.18	1.0	0.18	ug/L							
1,3-Dichlorobenzene	< 0.21	1.0	0.21	ug/L							
1,3-Dichloropropane	< 0.15	1.0	0.15	ug/L							
1,4-Dichlorobenzene	< 0.17	1.0	0.17	ug/L							
2,2-Dichloropropane	< 0.58	5.0	0.58	ug/L							
2-Butanone	< 0.67	20	0.67	ug/L							
2-Chlorotoluene	< 0.17	1.0	0.17	ug/L							
4-Chlorotoluene	< 0.14	1.0	0.14	ug/L							
Acetone	< 2.8	20	2.8	ug/L							
Allyl chloride	< 0.76	5.0	0.76	ug/L							
Benzene	< 0.093	1.0	0.093	ug/L							
Bromobenzene	< 0.17	1.0	0.17	ug/L							
Bromochloromethane	< 0.21	1.0	0.21	ug/L							
Bromodichloromethane	< 0.22	1.0	0.22	ug/L							
Bromoform	< 0.50	5.0	0.50	ug/L							
Bromomethane	< 0.95	5.0	0.95	ug/L							
Carbon tetrachloride	< 0.16	1.0	0.16	ug/L							
Chlorobenzene	< 0.15	1.0	0.15	ug/L							
Chloroethane	< 0.46	2.5	0.46	ug/L							
Chloroform	< 0.19	1.0	0.19	ug/L							
Chloromethane	< 0.37	2.5	0.37	ug/L							
cis-1,2-Dichloroethene	< 0.19	1.0	0.19	ug/L							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1105 - Volatiles

Blank (B9F1105-BLK1)

Prepared & Analyzed: 06/11/09

cis-1,3-Dichloropropene	< 0.16	1.0	0.16	ug/L							
Dibromochloromethane	< 0.50	2.5	0.50	ug/L							
Dibromomethane	< 0.30	2.5	0.30	ug/L							
Dichlorodifluoromethane	< 0.58	5.0	0.58	ug/L							
Dichlorofluoromethane	< 0.31	1.0	0.31	ug/L							
Ethyl ether	< 0.53	5.0	0.53	ug/L							
Ethylbenzene	< 0.21	1.0	0.21	ug/L							
Hexachlorobutadiene	< 0.76	10	0.76	ug/L							
Isopropylbenzene	< 0.17	1.0	0.17	ug/L							
m,p-Xylene	< 0.42	2.0	0.42	ug/L							
Methyl isobutyl ketone	< 1.1	5.0	1.1	ug/L							
Methyl tert-butyl ether	< 0.13	1.0	0.13	ug/L							
Methylene chloride	< 0.65	5.0	0.65	ug/L							
Naphthalene	< 0.40	5.0	0.40	ug/L							
n-Butylbenzene	< 0.32	2.5	0.32	ug/L							
n-Propylbenzene	< 0.13	1.0	0.13	ug/L							
o-Xylene	< 0.18	1.0	0.18	ug/L							
p-Isopropyltoluene	< 0.30	2.5	0.30	ug/L							
sec-Butylbenzene	< 0.22	1.0	0.22	ug/L							
Styrene	< 0.13	1.0	0.13	ug/L							
tert-Butylbenzene	< 0.19	1.0	0.19	ug/L							
Tetrachloroethene	< 0.20	1.0	0.20	ug/L							
Tetrahydrofuran	< 0.77	20	0.77	ug/L							
Toluene	< 0.21	1.0	0.21	ug/L							
trans-1,2-Dichloroethene	< 0.29	1.0	0.29	ug/L							
trans-1,3-Dichloropropene	< 0.17	1.0	0.17	ug/L							
Trichloroethene	< 0.20	1.0	0.20	ug/L							
Trichlorofluoromethane	< 0.17	1.0	0.17	ug/L							
Vinyl chloride	< 0.087	1.0	0.087	ug/L							
Surrogate: 4-Bromofluorobenzene	60.1			ug/L	55.0		109	76.4-125			
Surrogate: Dibromofluoromethane	58.3			ug/L	55.0		106	80-120			
Surrogate: Toluene-d8	54.1			ug/L	55.0		98.3	80-125			

LCS (B9F1105-BS1)

Prepared & Analyzed: 06/11/09

1,1,2,2-Tetrachloroethane	51.7	1.0	0.13	ug/L	50.0		103	80-120			
1,1-Dichloroethane	55.1	1.0	0.11	ug/L	50.0		110	76.6-120			
1,1-Dichloroethene	57.5	1.0	0.12	ug/L	50.0		115	75.9-120			
1,3,5-Trimethylbenzene	50.3	1.0	0.18	ug/L	50.0		101	80-120			
1,4-Dichlorobenzene	47.9	1.0	0.17	ug/L	50.0		95.8	75-125			
2-Chlorotoluene	49.0	1.0	0.17	ug/L	50.0		97.9	80-120			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1105 - Volatiles

LCS (B9F1105-BS1)

Prepared & Analyzed: 06/11/09

Benzene	52.1	1.0	0.093	ug/L	50.0		104	80-120			
Bromoform	45.0	5.0	0.50	ug/L	50.0		90.1	75.4-125			
Chlorobenzene	45.9	1.0	0.15	ug/L	50.0		91.8	80-120			
Chloroform	53.0	1.0	0.19	ug/L	50.0		106	80-120			
Ethylbenzene	46.9	1.0	0.21	ug/L	50.0		93.8	80-120			
n-Butylbenzene	53.4	2.5	0.32	ug/L	50.0		107	70.6-125			
n-Propylbenzene	49.7	1.0	0.13	ug/L	50.0		99.5	79.7-120			
Toluene	51.6	1.0	0.21	ug/L	50.0		103	80-120			
Trichloroethene	49.3	1.0	0.20	ug/L	50.0		98.6	80-120			
Vinyl chloride	62.5	1.0	0.087	ug/L	50.0		125	75-129			
Surrogate: 4-Bromofluorobenzene	64.4			ug/L	55.0		117	76.4-125			
Surrogate: Dibromofluoromethane	55.8			ug/L	55.0		101	80-120			
Surrogate: Toluene-d8	57.4			ug/L	55.0		104	80-125			

Matrix Spike (B9F1105-MS1)

Source: 0902751-01

Prepared & Analyzed: 06/11/09

1,1,2,2-Tetrachloroethane	49.9	1.0	0.13	ug/L	50.0	<1.0	99.9	80-120			
1,1-Dichloroethane	54.8	1.0	0.11	ug/L	50.0	<1.0	110	78-120			
1,1-Dichloroethene	58.1	1.0	0.12	ug/L	50.0	<1.0	116	75-120			
1,3,5-Trimethylbenzene	48.7	1.0	0.18	ug/L	50.0	<1.0	97.3	75.8-120			
1,4-Dichlorobenzene	46.5	1.0	0.17	ug/L	50.0	<1.0	93.1	75-125			
2-Chlorotoluene	47.9	1.0	0.17	ug/L	50.0	<1.0	95.8	79.1-120			
Benzene	51.0	1.0	0.093	ug/L	50.0	<1.0	102	80-120			
Bromoform	47.0	5.0	0.50	ug/L	50.0	<5.0	94.1	80-123			
Chlorobenzene	47.9	1.0	0.15	ug/L	50.0	<1.0	95.9	80-120			
Chloroform	54.6	1.0	0.19	ug/L	50.0	<1.0	109	80-120			
Ethylbenzene	49.4	1.0	0.21	ug/L	50.0	<1.0	98.9	80-120			
n-Butylbenzene	50.8	2.5	0.32	ug/L	50.0	<2.5	102	74.2-125			
n-Propylbenzene	48.4	1.0	0.13	ug/L	50.0	<1.0	96.8	76.3-120			
Toluene	50.7	1.0	0.21	ug/L	50.0	<1.0	101	80-120			
Trichloroethene	48.6	1.0	0.20	ug/L	50.0	<1.0	97.3	80-120			
Vinyl chloride	64.6	1.0	0.087	ug/L	50.0	<1.0	129	70.3-126			M1
Surrogate: 4-Bromofluorobenzene	63.2			ug/L	55.0		115	76.4-125			
Surrogate: Dibromofluoromethane	55.7			ug/L	55.0		101	80-120			
Surrogate: Toluene-d8	55.8			ug/L	55.0		102	80-125			

Matrix Spike Dup (B9F1105-MSD1)

Source: 0902751-01

Prepared & Analyzed: 06/11/09

1,1,2,2-Tetrachloroethane	50.8	1.0	0.13	ug/L	50.0	<1.0	102	80-120	1.64	20	
1,1-Dichloroethane	56.2	1.0	0.11	ug/L	50.0	<1.0	112	78-120	2.50	20	
1,1-Dichloroethene	58.6	1.0	0.12	ug/L	50.0	<1.0	117	75-120	0.841	20	
1,3,5-Trimethylbenzene	49.6	1.0	0.18	ug/L	50.0	<1.0	99.3	75.8-120	2.00	20	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902751
 Date Reported: 07/28/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1105 - Volatiles											
Matrix Spike Dup (B9F1105-MSD1)			Source: 0902751-01			Prepared & Analyzed: 06/11/09					
1,4-Dichlorobenzene	47.5	1.0	0.17	ug/L	50.0	<1.0	95.0	75-125	2.01	20	
2-Chlorotoluene	49.4	1.0	0.17	ug/L	50.0	<1.0	98.9	79.1-120	3.18	20	
Benzene	52.6	1.0	0.093	ug/L	50.0	<1.0	105	80-120	3.06	20	
Bromoform	45.4	5.0	0.50	ug/L	50.0	<5.0	90.8	80-123	3.60	20	
Chlorobenzene	47.3	1.0	0.15	ug/L	50.0	<1.0	94.7	80-120	1.29	20	
Chloroform	54.6	1.0	0.19	ug/L	50.0	<1.0	109	80-120	0.0253	20	
Ethylbenzene	48.4	1.0	0.21	ug/L	50.0	<1.0	96.7	80-120	2.19	20	
n-Butylbenzene	52.5	2.5	0.32	ug/L	50.0	<2.5	105	74.2-125	3.30	20	
n-Propylbenzene	49.8	1.0	0.13	ug/L	50.0	<1.0	99.7	76.3-120	2.93	20	
Toluene	52.3	1.0	0.21	ug/L	50.0	<1.0	105	80-120	3.07	20	
Trichloroethene	49.4	1.0	0.20	ug/L	50.0	<1.0	98.7	80-120	1.44	20	
Vinyl chloride	64.5	1.0	0.087	ug/L	50.0	<1.0	129	70.3-126	0.128	20	M1
Surrogate: 4-Bromofluorobenzene	64.7			ug/L	55.0		118	76.4-125			
Surrogate: Dibromofluoromethane	56.4			ug/L	55.0		102	80-120			
Surrogate: Toluene-d8	57.8			ug/L	55.0		105	80-125			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902751 Date Reported: 07/28/09
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Analytical Results - Quality Control
Davy Laboratories, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch N/A - No Prep											
BLK (0902751-BLK)											
						Prepared:	Analyzed: 06/17/09				
Nitrate/Nitrite as N	<0.06	0.06	--	mg/L		<0.06		-			
Total Kjeldahl as N	<0.55	0.55	--	mg/L		<0.55		-			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05.07SOC350 Project Manager: Ms. Kelly Neppel	Work Order #: 0902751 Date Reported: 07/28/09
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Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
QM-10	LCS/LCSD were analyzed in place of MS/MSD.
Q9	Insufficient sample received to meet method QC requirements.
M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
M1	Matrix spike recovery was high, the associated blank spike recovery was acceptable.
J	Parameter was present between the MDL and RL and should be considered an estimated value
F-01	The sample was filtered in the laboratory prior to analysis.
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

OC Pesticides

6902751

Chain of Custody

4700 West 77th Street
 Minneapolis, MN 55435-4803
 (952) 832-2600

BARR

Project Number: 23/19-BOS-SOC350

Project Name: U More Phase II

No. 28200

Sample Identification	Collection Date	Collection Time	Matrix Type		
			Water	Soil	Grab Comp.
1. SOC1-GP1	6-8-09	1100	X	X	X
2. GP-DUP-1	6-8-09	1105	X	X	X
3. SOC1-GP1,0-4	6-8-09	1330	X	X	X
4. SOC1-GP2,0-4	6-8-09	1400	X	X	X
5. SOC6-GPG	6-8-09	1600	X	X	X
6. GP-DUP-2	6-8-09	1615	X	X	X
7. SOC3-GP3	6-8-09	1700	X	X	X
8. Trip Bank	6-8-09	1700	X	X	X
9.					
10.					
11.					
12.					

Common Parameter/Container - Preservation Key

- *1 - Volatile Organics = BTEX, GRO, TPH, Full List
- *2 - Semivolatile Organics = PAHs, PCB, Dioxins, Full List, Herbicide/Pesticide/PCBs
- *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfide
- *4 - Nutrients = COD, TOC, Phos, Ammonia Nitrogen, IKY

Number of Containers/Preservative	Water		Soil		Total No. Of Containers
	On Ice?	Date	On Ice?	Date	
1	Y	6-4-09	Y	6-4-09	2
2	Y	6-4-09	Y	6-4-09	2
3	Y	6-4-09	Y	6-4-09	2
4	Y	6-4-09	Y	6-4-09	2
5	Y	6-4-09	Y	6-4-09	2
6	Y	6-4-09	Y	6-4-09	2
7	Y	6-4-09	Y	6-4-09	2
8	Y	6-4-09	Y	6-4-09	2
9					
10					
11					
12					

Project Manager: SME
 Project Contact: Kelly Meppel
 Sampled by: ESC
 Laboratory: Legend

Remarks:
 VOCs - Method 8260B
 SVOCs - Method 8270C
 Metals - Method 6010B, except Ar, Be, Pb by 6020
 OC Pesticides - Method 8081A
 Nitrogen - 9050mt/351.3

Received by: [Signature]
 Date: 6/1/09
 Time: 13:37

5.7c RL ce

H-R L05125PFORMS/Chain Of Custody Form FLSG Rev. 07/01/05



88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

July 28, 2009

REVISION

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0902757
RE: 23/19-0B05.07

This is a revised report. The details of the revision are listed in the case narrative on the following page.

Enclosed are the results of analyses for samples received by the laboratory on 06/05/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of the original report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Erica Nastrom
Client Manager I
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Barb Rutten
Report Reviewer
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Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppel	Work Order #: 0902757 Date Reported: 07/28/09
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC6-GP7-0-4'	0902757-01	Soil	06/03/09 14:15	06/05/09 11:15
SOC6-GP6-2-4'	0902757-02	Soil	06/03/09 15:15	06/05/09 11:15
SOC6-DUP-1	0902757-03	Soil	06/04/09 00:00	06/05/09 11:15
SOC6-GP8-2-4'	0902757-04	Soil	06/04/09 09:10	06/05/09 11:15
SOC6-GP5-1-2'	0902757-05	Soil	06/04/09 09:45	06/05/09 11:15
SOC3-GP1-1-2'	0902757-06	Soil	06/04/09 11:45	06/05/09 11:15
SOC3-GP3-0-0.5'	0902757-07	Soil	06/04/09 13:15	06/05/09 11:15
SOC3-GP1-0-0.5'	0902757-08	Soil	06/04/09 11:45	06/05/09 11:15
SOC3-DUP2	0902757-09	Soil	06/04/09 00:00	06/05/09 11:15
SOC3-DUP1	0902757-10	Soil	06/04/09 00:00	06/05/09 11:15

Shipping Container Information

Default Cooler Temperature (°C): 1.6

Received on ice: Yes Temperature blank was present Received on ice pack: No
 Received on melt water: No Ambient: No Acceptable (IH/ISO only): No
 Custody seals: No

Case Narrative:

This report was revised on 7/28/09 to correct ICP lead results for samples SOC3-GP1-0-0.5 and SOC3-DUP1.

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902757 Date Reported: 07/28/09
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TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-GP3-0-0.5' (0902757-07) Soil Sampled: 06/04/09 13:15 Received: 06/05/09 11:15										
Arsenic	7.5	0.55	0.11	mg/kg dry	1	B9F1513	06/15/09	06/16/09	EPA 6010B	
SOC3-GP1-0-0.5' (0902757-08) Soil Sampled: 06/04/09 11:45 Received: 06/05/09 11:15										
Antimony	<0.55	0.55	0.0060	mg/kg dry	1	B9F1513	06/15/09	06/16/09	EPA 6010B	
Arsenic	7.1	0.55	0.11	mg/kg dry	1	"	"	"	"	
Beryllium	0.45	0.27	0.012	mg/kg dry	1	"	"	"	"	
Cadmium	0.33	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chromium	18	0.55	0.013	mg/kg dry	1	"	"	"	"	
Copper	15	1.1	0.077	mg/kg dry	1	"	"	"	"	
Lead	73	1.1	0.037	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0034	mg/kg dry	1	B9F1111	06/11/09	06/15/09	EPA 7471A	
Nickel	14	0.55	0.015	mg/kg dry	1	B9F1513	06/15/09	06/16/09	EPA 6010B	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Silver	<0.27	0.27	0.0099	mg/kg dry	1	"	"	"	"	
Thallium	<2.2	2.2	0.14	mg/kg dry	1	"	"	"	"	
Zinc	77	1.1	0.24	mg/kg dry	1	"	"	"	"	
SOC3-DUP1 (0902757-10) Soil Sampled: 06/04/09 00:00 Received: 06/05/09 11:15										
Antimony	<0.54	0.54	0.0060	mg/kg dry	1	B9F1513	06/15/09	06/16/09	EPA 6010B	
Arsenic	9.2	0.54	0.11	mg/kg dry	1	"	"	"	"	
Beryllium	0.53	0.27	0.012	mg/kg dry	1	"	"	"	"	
Cadmium	<0.27	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chromium	17	0.54	0.013	mg/kg dry	1	"	"	"	"	
Copper	15	1.1	0.076	mg/kg dry	1	"	"	"	"	
Lead	56	1.1	0.037	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0034	mg/kg dry	1	B9F1111	06/11/09	06/15/09	EPA 7471A	
Nickel	14	0.54	0.015	mg/kg dry	1	B9F1513	06/15/09	06/16/09	EPA 6010B	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Silver	<0.27	0.27	0.0098	mg/kg dry	1	"	"	"	"	
Thallium	<2.2	2.2	0.14	mg/kg dry	1	"	"	"	"	
Zinc	83	1.1	0.24	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902757 Date Reported: 07/28/09
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PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC6-GP7-0-4' (0902757-01) Soil Sampled: 06/03/09 14:15 Received: 06/05/09 11:15										
% Solids	89			%	1	B9F1608	06/16/09	06/16/09	% calculation	
SOC6-GP6-2-4' (0902757-02) Soil Sampled: 06/03/09 15:15 Received: 06/05/09 11:15										
% Solids	88			%	1	B9F1608	06/16/09	06/16/09	% calculation	
SOC6-DUP-1 (0902757-03) Soil Sampled: 06/04/09 00:00 Received: 06/05/09 11:15										
% Solids	78			%	1	B9F1608	06/16/09	06/16/09	% calculation	
SOC6-GP8-2-4' (0902757-04) Soil Sampled: 06/04/09 09:10 Received: 06/05/09 11:15										
% Solids	77			%	1	B9F1608	06/16/09	06/16/09	% calculation	
SOC6-GP5-1-2' (0902757-05) Soil Sampled: 06/04/09 09:45 Received: 06/05/09 11:15										
% Solids	80			%	1	B9F1608	06/16/09	06/16/09	% calculation	
SOC3-GP1-1-2' (0902757-06) Soil Sampled: 06/04/09 11:45 Received: 06/05/09 11:15										
% Solids	87			%	1	B9F1608	06/16/09	06/16/09	% calculation	
SOC3-GP3-0-0.5' (0902757-07) Soil Sampled: 06/04/09 13:15 Received: 06/05/09 11:15										
% Solids	91			%	1	B9F1608	06/16/09	06/16/09	% calculation	
SOC3-GP1-0-0.5' (0902757-08) Soil Sampled: 06/04/09 11:45 Received: 06/05/09 11:15										
% Solids	91			%	1	B9F1608	06/16/09	06/16/09	% calculation	
SOC3-DUP2 (0902757-09) Soil Sampled: 06/04/09 00:00 Received: 06/05/09 11:15										
% Solids	87			%	1	B9F1608	06/16/09	06/16/09	% calculation	
SOC3-DUP1 (0902757-10) Soil Sampled: 06/04/09 00:00 Received: 06/05/09 11:15										
% Solids	92			%	1	B9F1608	06/16/09	06/16/09	% calculation	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902757 Date Reported: 07/28/09
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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC6-GP7-0-4' (0902757-01) Soil Sampled: 06/03/09 14:15 Received: 06/05/09 11:15										
4,4'-DDD	<0.045	0.045	0.0013	mg/kg dry	1	B9F1515	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.045	0.045	0.0015	mg/kg dry	1	"	"	"	"	
4,4'-DDT	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
a-Chlordane	<0.045	0.045	0.0016	mg/kg dry	1	"	"	"	"	
Aldrin	<0.045	0.045	0.0013	mg/kg dry	1	"	"	"	"	
alpha-BHC	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.045	0.045	0.0018	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.045	0.045	0.0019	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.045	0.045	0.0016	mg/kg dry	1	"	"	"	"	
Endosulfan I	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
Endrin	<0.045	0.045	0.0016	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
Endrin ketone	<0.045	0.045	0.0016	mg/kg dry	1	"	"	"	"	
gamma-BHC (Lindane)	<0.045	0.045	0.0016	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.045	0.045	0.0016	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
Heptachlor epoxide	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
Methoxychlor	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.090	0.090	0.0069	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	91.0			83.7-130 %		"	"	06/17/09	"	
Surrogate: Tetrachloro-meta-xylene	87.0			65.2-135 %		"	"	"	"	

SOC6-GP6-2-4' (0902757-02) Soil Sampled: 06/03/09 15:15 Received: 06/05/09 11:15										
4,4'-DDD	<0.045	0.045	0.0014	mg/kg dry	1	B9F1515	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.045	0.045	0.0015	mg/kg dry	1	"	"	"	"	
4,4'-DDT	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
a-Chlordane	<0.045	0.045	0.0016	mg/kg dry	1	"	"	"	"	
Aldrin	<0.045	0.045	0.0014	mg/kg dry	1	"	"	"	"	
alpha-BHC	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.045	0.045	0.0018	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.045	0.045	0.0019	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.045	0.045	0.0016	mg/kg dry	1	"	"	"	"	
Endosulfan I	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
Endrin	<0.045	0.045	0.0016	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902757 Date Reported: 07/28/09
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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC6-GP6-2-4' (0902757-02) Soil Sampled: 06/03/09 15:15 Received: 06/05/09 11:15

Endrin ketone	<0.045	0.045	0.0016	mg/kg dry	1	B9F1515	06/15/09	06/17/09	EPA 8081A	
gamma-BHC (Lindane)	<0.045	0.045	0.0016	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.045	0.045	0.0016	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
Heptachlor epoxide	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
Methoxychlor	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.091	0.091	0.0069	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	94.0			83.7-130 %		"	"	06/17/09	"	
Surrogate: Tetrachloro-meta-xylene	90.0			65.2-135 %		"	"	"	"	

SOC6-DUP-1 (0902757-03) Soil Sampled: 06/04/09 00:00 Received: 06/05/09 11:15

4,4'-DDD	<0.051	0.051	0.0015	mg/kg dry	1	B9F1515	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.051	0.051	0.0017	mg/kg dry	1	"	"	"	"	
4,4'-DDT	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
a-Chlordane	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	
Aldrin	<0.051	0.051	0.0015	mg/kg dry	1	"	"	"	"	
alpha-BHC	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.051	0.051	0.0021	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.051	0.051	0.0022	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	
Endosulfan I	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Endrin	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Endrin ketone	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	
gamma-BHC (Lindane)	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Heptachlor epoxide	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Methoxychlor	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.10	0.10	0.0078	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	90.5			83.7-130 %		"	"	06/17/09	"	
Surrogate: Tetrachloro-meta-xylene	91.0			65.2-135 %		"	"	"	"	

SOC6-GP8-2-4' (0902757-04) Soil Sampled: 06/04/09 09:10 Received: 06/05/09 11:15

4,4'-DDD	<0.052	0.052	0.0016	mg/kg dry	1	B9F1515	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.052	0.052	0.0017	mg/kg dry	1	"	"	"	"	
4,4'-DDT	<0.052	0.052	0.0019	mg/kg dry	1	"	"	"	"	
a-Chlordane	<0.052	0.052	0.0018	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902757 Date Reported: 07/28/09
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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC6-GP8-2-4' (0902757-04) Soil Sampled: 06/04/09 09:10 Received: 06/05/09 11:15										
Aldrin	<0.052	0.052	0.0016	mg/kg dry	1	B9F1515	06/15/09	06/17/09	EPA 8081A	
alpha-BHC	<0.052	0.052	0.0019	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.052	0.052	0.0021	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.052	0.052	0.0022	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.052	0.052	0.0018	mg/kg dry	1	"	"	"	"	
Endosulfan I	<0.052	0.052	0.0019	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.052	0.052	0.0019	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.052	0.052	0.0019	mg/kg dry	1	"	"	"	"	
Endrin	<0.052	0.052	0.0018	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.052	0.052	0.0019	mg/kg dry	1	"	"	"	"	
Endrin ketone	<0.052	0.052	0.0018	mg/kg dry	1	"	"	"	"	
gamma-BHC (Lindane)	<0.052	0.052	0.0018	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.052	0.052	0.0018	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.052	0.052	0.0019	mg/kg dry	1	"	"	"	"	
Heptachlor epoxide	<0.052	0.052	0.0019	mg/kg dry	1	"	"	"	"	
Methoxychlor	<0.052	0.052	0.0019	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.10	0.10	0.0079	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	102			83.7-130 %		"	"	06/17/09	"	
Surrogate: Tetrachloro-meta-xylene	100			65.2-135 %		"	"	"	"	

SOC6-GP5-1-2' (0902757-05) Soil Sampled: 06/04/09 09:45 Received: 06/05/09 11:15										
4,4'-DDD	<0.050	0.050	0.0015	mg/kg dry	1	B9F1515	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.050	0.050	0.0016	mg/kg dry	1	"	"	06/17/09	"	
4,4'-DDT	<0.050	0.050	0.0019	mg/kg dry	1	"	"	"	"	
a-Chlordane	<0.050	0.050	0.0018	mg/kg dry	1	"	"	06/17/09	"	
Aldrin	<0.050	0.050	0.0015	mg/kg dry	1	"	"	"	"	
alpha-BHC	<0.050	0.050	0.0019	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.050	0.050	0.0020	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.050	0.050	0.0021	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.050	0.050	0.0018	mg/kg dry	1	"	"	"	"	
Endosulfan I	<0.050	0.050	0.0019	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.050	0.050	0.0019	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.050	0.050	0.0019	mg/kg dry	1	"	"	"	"	
Endrin	<0.050	0.050	0.0018	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.050	0.050	0.0019	mg/kg dry	1	"	"	"	"	
Endrin ketone	<0.050	0.050	0.0018	mg/kg dry	1	"	"	"	"	
gamma-BHC (Lindane)	<0.050	0.050	0.0018	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.050	0.050	0.0018	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.050	0.050	0.0019	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902757 Date Reported: 07/28/09
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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC6-GP5-1-2' (0902757-05) Soil Sampled: 06/04/09 09:45 Received: 06/05/09 11:15										
Heptachlor epoxide	<0.050	0.050	0.0019	mg/kg dry	1	B9F1515	06/15/09	06/17/09	EPA 8081A	
Methoxychlor	<0.050	0.050	0.0019	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.10	0.10	0.0076	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	97.0			83.7-130 %		"	"	06/17/09	"	
Surrogate: Tetrachloro-meta-xylene	92.5			65.2-135 %		"	"	"	"	
SOC3-GP1-1-2' (0902757-06) Soil Sampled: 06/04/09 11:45 Received: 06/05/09 11:15										
4,4'-DDD	<0.046	0.046	0.0014	mg/kg dry	1	B9F1515	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.046	0.046	0.0015	mg/kg dry	1	"	"	06/17/09	"	
4,4'-DDT	<0.046	0.046	0.0017	mg/kg dry	1	"	"	"	"	
a-Chlordane	<0.046	0.046	0.0016	mg/kg dry	1	"	"	06/17/09	"	
Aldrin	<0.046	0.046	0.0014	mg/kg dry	1	"	"	"	"	
alpha-BHC	<0.046	0.046	0.0017	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.046	0.046	0.0018	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.046	0.046	0.0020	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.046	0.046	0.0016	mg/kg dry	1	"	"	"	"	
Endosulfan I	<0.046	0.046	0.0017	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.046	0.046	0.0017	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.046	0.046	0.0017	mg/kg dry	1	"	"	"	"	
Endrin	<0.046	0.046	0.0016	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.046	0.046	0.0017	mg/kg dry	1	"	"	"	"	
Endrin ketone	<0.046	0.046	0.0016	mg/kg dry	1	"	"	"	"	
gamma-BHC (Lindane)	<0.046	0.046	0.0016	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.046	0.046	0.0016	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.046	0.046	0.0017	mg/kg dry	1	"	"	"	"	
Heptachlor epoxide	<0.046	0.046	0.0017	mg/kg dry	1	"	"	"	"	
Methoxychlor	<0.046	0.046	0.0017	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.092	0.092	0.0070	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	96.0			83.7-130 %		"	"	06/17/09	"	
Surrogate: Tetrachloro-meta-xylene	95.5			65.2-135 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902757 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-GP1-1-2' (0902757-06) Soil Sampled: 06/04/09 11:45 Received: 06/05/09 11:15										
1,1,1,2-Tetrachloroethane	<0.028	0.27	0.028	mg/kg dry	1	B9F1002	06/10/09	06/10/09	EPA 8260B	
1,1,1-Trichloroethane	<0.036	0.27	0.036	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.040	0.27	0.040	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.071	0.27	0.071	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.026	0.27	0.026	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.029	0.27	0.029	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.072	0.55	0.072	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.058	0.27	0.058	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.070	0.55	0.070	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.022	0.27	0.022	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.062	0.55	0.062	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.041	0.27	0.041	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.029	0.27	0.029	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.031	0.27	0.031	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.016	0.27	0.016	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.031	0.27	0.031	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.019	0.27	0.019	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.020	0.27	0.020	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.074	0.55	0.074	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.13	2.2	0.13	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.020	0.27	0.020	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.032	0.27	0.032	mg/kg dry	1	"	"	"	"	
Acetone	<0.35	2.2	0.35	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.073	0.55	0.073	mg/kg dry	1	"	"	"	"	
Benzene	<0.016	0.27	0.016	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.021	0.27	0.021	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.038	0.27	0.038	mg/kg dry	1	"	"	"	"	
Bromoform	<0.087	0.55	0.087	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.15	0.55	0.15	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.029	0.27	0.029	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.080	0.27	0.080	mg/kg dry	1	"	"	"	"	
Chloroform	<0.046	0.27	0.046	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.045	0.27	0.045	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.050	0.27	0.050	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902757 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-GP1-1-2' (0902757-06) Soil Sampled: 06/04/09 11:45 Received: 06/05/09 11:15										
cis-1,3-Dichloropropene	<0.025	0.27	0.025	mg/kg dry	1	B9F1002	06/10/09	06/10/09	EPA 8260B	
Dibromochloromethane	<0.035	0.27	0.035	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.050	0.27	0.050	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.090	0.55	0.090	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.048	0.27	0.048	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.052	0.55	0.052	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.024	0.27	0.024	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.14	1.1	0.14	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.025	0.27	0.025	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.096	0.55	0.096	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.10	0.55	0.10	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.019	0.27	0.019	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.19	1.1	0.19	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.071	0.55	0.071	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.035	0.27	0.035	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.015	0.27	0.015	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.034	0.27	0.034	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.033	0.27	0.033	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.011	0.27	0.011	mg/kg dry	1	"	"	"	"	
Styrene	<0.044	0.27	0.044	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.020	0.27	0.020	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.038	0.27	0.038	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.11	2.2	0.11	mg/kg dry	1	"	"	"	"	
Toluene	<0.031	0.27	0.031	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.024	0.27	0.024	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.038	0.27	0.038	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.044	0.27	0.044	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.035	0.27	0.035	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.025	0.27	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	108			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	105			80-120 %		"	"	"	"	

SOC3-DUP2 (0902757-09) Soil Sampled: 06/04/09 00:00 Received: 06/05/09 11:15										
1,1,1,2-Tetrachloroethane	<0.028	0.27	0.028	mg/kg dry	1	B9F1002	06/10/09	06/10/09	EPA 8260B	
1,1,1-Trichloroethane	<0.035	0.27	0.035	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.040	0.27	0.040	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.070	0.27	0.070	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902757 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-DUP2 (0902757-09) Soil Sampled: 06/04/09 00:00 Received: 06/05/09 11:15										
1,1-Dichloroethane	<0.026	0.27	0.026	mg/kg dry	1	B9F1002	06/10/09	06/10/09	EPA 8260B	
1,1-Dichloroethene	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.029	0.27	0.029	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.071	0.54	0.071	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.057	0.27	0.057	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.069	0.54	0.069	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.022	0.27	0.022	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.061	0.54	0.061	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.041	0.27	0.041	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.029	0.27	0.029	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.030	0.27	0.030	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.016	0.27	0.016	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.030	0.27	0.030	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.018	0.27	0.018	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.019	0.27	0.019	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.073	0.54	0.073	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.13	2.2	0.13	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.019	0.27	0.019	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.031	0.27	0.031	mg/kg dry	1	"	"	"	"	
Acetone	<0.34	2.2	0.34	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.072	0.54	0.072	mg/kg dry	1	"	"	"	"	
Benzene	<0.016	0.27	0.016	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.020	0.27	0.020	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.038	0.27	0.038	mg/kg dry	1	"	"	"	"	
Bromoform	<0.086	0.54	0.086	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.15	0.54	0.15	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.029	0.27	0.029	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.078	0.27	0.078	mg/kg dry	1	"	"	"	"	
Chloroform	<0.045	0.27	0.045	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.044	0.27	0.044	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.049	0.27	0.049	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.025	0.27	0.025	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.034	0.27	0.034	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.049	0.27	0.049	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.088	0.54	0.088	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.047	0.27	0.047	mg/kg dry	1	"	"	"	"	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902757
 Date Reported: 07/28/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-DUP2 (0902757-09) Soil Sampled: 06/04/09 00:00 Received: 06/05/09 11:15										
Ethyl ether	<0.052	0.54	0.052	mg/kg dry	1	B9F1002	06/10/09	06/10/09	EPA 8260B	
Ethylbenzene	<0.024	0.27	0.024	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.14	1.1	0.14	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.025	0.27	0.025	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.095	0.54	0.095	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.099	0.54	0.099	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.018	0.27	0.018	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.18	1.1	0.18	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.070	0.54	0.070	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.034	0.27	0.034	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.015	0.27	0.015	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.033	0.27	0.033	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.032	0.27	0.032	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.011	0.27	0.011	mg/kg dry	1	"	"	"	"	
Styrene	<0.043	0.27	0.043	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.019	0.27	0.019	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.038	0.27	0.038	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.11	2.2	0.11	mg/kg dry	1	"	"	"	"	
Toluene	<0.030	0.27	0.030	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.024	0.27	0.024	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.038	0.27	0.038	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.043	0.27	0.043	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.034	0.27	0.034	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.025	0.27	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	108			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	105			80-120 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902757 Date Reported: 07/28/09
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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1111 - EPA 7471A											
Blank (B9F1111-BLK1) Prepared: 06/11/09 Analyzed: 06/15/09											
Mercury	< 0.10	0.10	0.0031	mg/kg wet							
LCS (B9F1111-BS1) Prepared: 06/11/09 Analyzed: 06/15/09											
Mercury	0.205	0.10	0.0031	mg/kg wet	0.200		102	80-120			
LCS Dup (B9F1111-BSD1) Prepared: 06/11/09 Analyzed: 06/15/09											
Mercury	0.203	0.10	0.0031	mg/kg wet	0.200		102	80-120	0.980	20	
Matrix Spike (B9F1111-MS1) Source: 0902742-01 Prepared: 06/11/09 Analyzed: 06/15/09											
Mercury	0.276	0.12	0.0037	mg/kg dry	0.238	<0.12	106	75-125			
Matrix Spike Dup (B9F1111-MSD1) Source: 0902742-01 Prepared: 06/11/09 Analyzed: 06/15/09											
Mercury	0.282	0.12	0.0037	mg/kg dry	0.238	<0.12	108	75-125	2.13	20	
Batch B9F1513 - EPA 3050B											
Blank (B9F1513-BLK1) Prepared: 06/15/09 Analyzed: 06/16/09											
Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							
LCS (B9F1513-BS1) Prepared & Analyzed: 06/15/09											
Antimony	34.9	0.50	0.0055	mg/kg wet	39.9		87.5	80-120			
Arsenic	36.6	0.50	0.10	mg/kg wet	39.9		91.7	80-120			
Arsenic	36.6	0.50	0.10	mg/kg wet	39.9		91.7	80-120			
Beryllium	3.75	0.25	0.011	mg/kg wet	3.99		93.9	80-120			
Cadmium	38.2	0.25	0.025	mg/kg wet	39.9		95.7	80-120			
Chromium	38.1	0.50	0.012	mg/kg wet	39.9		95.6	80-120			
Copper	36.3	1.0	0.070	mg/kg wet	39.9		90.9	80-120			
Lead	37.9	1.0	0.034	mg/kg wet	39.9		95.0	80-120			
Nickel	37.6	0.50	0.014	mg/kg wet	39.9		94.2	80-120			
Selenium	36.6	1.0	0.11	mg/kg wet	39.9		91.7	80-120			
Silver	3.78	0.25	0.0090	mg/kg wet	3.99		94.7	80-120			
Thallium	38.0	2.0	0.13	mg/kg wet	39.9		95.3	80-120			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppel	Work Order #: 0902757 Date Reported: 07/28/09
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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1513 - EPA 3050B

LCS (B9F1513-BS1)

Prepared & Analyzed: 06/15/09

Zinc	37.7	1.0	0.22	mg/kg wet	39.9		94.5	80-120			
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LCS Dup (B9F1513-BSD1)

Prepared & Analyzed: 06/15/09

Antimony	36.2	0.50	0.0055	mg/kg wet	39.9		90.7	80-120	3.57	20	
Arsenic	37.4	0.50	0.10	mg/kg wet	39.9		93.6	80-120	2.11	20	
Arsenic	37.4	0.50	0.10	mg/kg wet	39.9		93.6	80-120	2.11	20	
Beryllium	3.81	0.25	0.011	mg/kg wet	3.99		95.6	80-120	1.81	20	
Cadmium	38.9	0.25	0.025	mg/kg wet	39.9		97.5	80-120	1.87	20	
Chromium	38.5	0.50	0.012	mg/kg wet	39.9		96.6	80-120	1.04	20	
Copper	37.0	1.0	0.070	mg/kg wet	39.9		92.7	80-120	2.05	20	
Lead	38.6	1.0	0.034	mg/kg wet	39.9		96.8	80-120	1.83	20	
Nickel	38.2	0.50	0.014	mg/kg wet	39.9		95.8	80-120	1.67	20	
Selenium	37.4	1.0	0.11	mg/kg wet	39.9		93.8	80-120	2.18	20	
Silver	3.83	0.25	0.0090	mg/kg wet	3.99		96.0	80-120	1.39	20	
Thallium	38.8	2.0	0.13	mg/kg wet	39.9		97.2	80-120	2.05	20	
Zinc	38.3	1.0	0.22	mg/kg wet	39.9		96.0	80-120	1.54	20	

Matrix Spike (B9F1513-MS1)

Source: 0902742-01

Prepared & Analyzed: 06/15/09

Antimony	38.0	0.60	0.0065	mg/kg dry	47.5	<0.60	79.6	75-125			
Arsenic	48.9	0.60	0.12	mg/kg dry	47.5	7.19	87.9	75-125			
Arsenic	48.9	0.60	0.12	mg/kg dry	47.5	7.19	87.9	75-125			
Beryllium	4.78	0.30	0.013	mg/kg dry	4.75	0.512	89.9	75-125			
Cadmium	42.0	0.30	0.030	mg/kg dry	47.5	0.522	87.3	75-125			
Chromium	62.4	0.60	0.014	mg/kg dry	47.5	19.5	90.2	75-125			
Copper	55.0	1.2	0.083	mg/kg dry	47.5	13.1	88.3	75-125			
Lead	54.0	1.2	0.040	mg/kg dry	47.5	13.3	85.7	75-125			
Nickel	56.1	0.60	0.017	mg/kg dry	47.5	14.9	86.9	75-125			
Selenium	41.1	1.2	0.13	mg/kg dry	47.5	<1.2	86.4	75-125			
Silver	4.20	0.30	0.011	mg/kg dry	4.75	<0.30	88.4	75-125			
Thallium	38.9	2.4	0.15	mg/kg dry	47.5	<2.4	82.0	75-125			
Zinc	108	1.2	0.26	mg/kg dry	47.5	69.9	80.0	75-125			

Matrix Spike Dup (B9F1513-MSD1)

Source: 0902742-01

Prepared & Analyzed: 06/15/09

Antimony	38.0	0.60	0.0065	mg/kg dry	47.5	<0.60	79.6	75-125	0.0632	20	
Arsenic	48.1	0.60	0.12	mg/kg dry	47.5	7.19	86.1	75-125	1.76	20	
Arsenic	48.1	0.60	0.12	mg/kg dry	47.5	7.19	86.1	75-125	1.76	20	
Beryllium	4.69	0.30	0.013	mg/kg dry	4.75	0.512	87.9	75-125	2.06	20	
Cadmium	41.7	0.30	0.030	mg/kg dry	47.5	0.522	86.6	75-125	0.771	20	
Chromium	60.4	0.60	0.014	mg/kg dry	47.5	19.5	86.1	75-125	3.21	20	
Copper	54.1	1.2	0.083	mg/kg dry	47.5	13.1	86.3	75-125	1.69	20	
Lead	52.9	1.2	0.040	mg/kg dry	47.5	13.3	83.3	75-125	2.11	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902757 Date Reported: 07/28/09
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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1513 - EPA 3050B											
Matrix Spike Dup (B9F1513-MSD1)											
	Source: 0902742-01					Prepared & Analyzed: 06/15/09					
Nickel	54.7	0.60	0.017	mg/kg dry	47.5	14.9	83.8	75-125	2.64	20	
Selenium	41.1	1.2	0.13	mg/kg dry	47.5	<1.2	86.6	75-125	0.141	20	
Silver	4.20	0.30	0.011	mg/kg dry	4.75	<0.30	88.3	75-125	0.0674	20	
Thallium	39.1	2.4	0.15	mg/kg dry	47.5	<2.4	82.3	75-125	0.414	20	
Zinc	108	1.2	0.26	mg/kg dry	47.5	69.9	81.0	75-125	0.450	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902757 Date Reported: 07/28/09
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PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes	
Batch B9F1608 - General Preparation												
Duplicate (B9F1608-DUP1)							Source: 0902757-03					Prepared & Analyzed: 06/16/09
% Solids	78.0			%		78.0			0.00	20		
Duplicate (B9F1608-DUP2)							Source: 0902779-06					Prepared & Analyzed: 06/16/09
% Solids	79.0			%		81.0			2.50	20		
Duplicate (B9F1608-DUP3)							Source: 0902830-01					Prepared & Analyzed: 06/16/09
% Solids	90.0			%		90.0			0.00	20		

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05.07SOC350
 Project Manager: Ms. Kelly Neppel

Work Order #: 0902757
 Date Reported: 07/28/09

PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1515 - EPA 3545 ASE Extraction

Blank (B9F1515-BLK1)

Prepared: 06/15/09 Analyzed: 06/16/09

4,4'-DDD	< 0.040	0.040	0.0012	mg/kg wet							
4,4'-DDE	< 0.040	0.040	0.0013	mg/kg wet							
4,4'-DDT	< 0.040	0.040	0.0015	mg/kg wet							
a-Chlordane	< 0.040	0.040	0.0014	mg/kg wet							
Aldrin	< 0.040	0.040	0.0012	mg/kg wet							
alpha-BHC	< 0.040	0.040	0.0015	mg/kg wet							
beta-BHC	< 0.040	0.040	0.0016	mg/kg wet							
delta-BHC	< 0.040	0.040	0.0017	mg/kg wet							
Dieldrin	< 0.040	0.040	0.0014	mg/kg wet							
Endosulfan I	< 0.040	0.040	0.0015	mg/kg wet							
Endosulfan II	< 0.040	0.040	0.0015	mg/kg wet							
Endosulfan sulfate	< 0.040	0.040	0.0015	mg/kg wet							
Endrin	< 0.040	0.040	0.0014	mg/kg wet							
Endrin aldehyde	< 0.040	0.040	0.0015	mg/kg wet							
Endrin ketone	< 0.040	0.040	0.0014	mg/kg wet							
gamma-BHC (Lindane)	< 0.040	0.040	0.0014	mg/kg wet							
gamma-Chlordane	< 0.040	0.040	0.0014	mg/kg wet							
Heptachlor	< 0.040	0.040	0.0015	mg/kg wet							
Heptachlor epoxide	< 0.040	0.040	0.0015	mg/kg wet							
Methoxychlor	< 0.040	0.040	0.0015	mg/kg wet							
Toxaphene	< 0.080	0.080	0.0061	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0627			mg/kg wet	0.0667		94.0	83.7-130			
Surrogate: Tetrachloro-meta-xylene	0.0617			mg/kg wet	0.0667		92.5	65.2-135			

LCS (B9F1515-BS1)

Prepared: 06/15/09 Analyzed: 06/16/09

4,4'-DDD	0.0763	0.040	0.0012	mg/kg wet	0.0833		91.6	70-130			
4,4'-DDE	0.0790	0.040	0.0013	mg/kg wet	0.0833		94.8	70-130			
4,4'-DDT	0.0840	0.040	0.0015	mg/kg wet	0.0833		101	70-130			
a-Chlordane	0.0777	0.040	0.0014	mg/kg wet	0.0833		93.2	70-130			
Aldrin	0.0777	0.040	0.0012	mg/kg wet	0.0833		93.2	70-130			
alpha-BHC	0.0790	0.040	0.0015	mg/kg wet	0.0833		94.8	70-130			
beta-BHC	0.0760	0.040	0.0016	mg/kg wet	0.0833		91.2	70-130			
delta-BHC	0.0803	0.040	0.0017	mg/kg wet	0.0833		96.4	70-130			
Dieldrin	0.0773	0.040	0.0014	mg/kg wet	0.0833		92.8	70-130			
Endosulfan I	0.0777	0.040	0.0015	mg/kg wet	0.0833		93.2	70-130			
Endosulfan II	0.0773	0.040	0.0015	mg/kg wet	0.0833		92.8	70-130			
Endosulfan sulfate	0.0777	0.040	0.0015	mg/kg wet	0.0833		93.2	70-130			
Endrin	0.0803	0.040	0.0014	mg/kg wet	0.0833		96.4	70-130			
Endrin aldehyde	0.0687	0.040	0.0015	mg/kg wet	0.0833		82.4	70-130			
Endrin ketone	0.0770	0.040	0.0014	mg/kg wet	0.0833		92.4	70-130			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902757 Date Reported: 07/28/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1515 - EPA 3545 ASE Extraction

LCS (B9F1515-BS1)

Prepared: 06/15/09 Analyzed: 06/16/09

gamma-BHC (Lindane)	0.0790	0.040	0.0014	mg/kg wet	0.0833		94.8	70-130			
gamma-Chlordane	0.0760	0.040	0.0014	mg/kg wet	0.0833		91.2	70-130			
Heptachlor	0.0780	0.040	0.0015	mg/kg wet	0.0833		93.6	70-130			
Heptachlor epoxide	0.0777	0.040	0.0015	mg/kg wet	0.0833		93.2	70-130			
Methoxychlor	0.0837	0.040	0.0015	mg/kg wet	0.0833		100	70-130			
Surrogate: Decachlorobiphenyl	0.0640			mg/kg wet	0.0667		96.0	83.7-130			
Surrogate: Tetrachloro-meta-xylene	0.0627			mg/kg wet	0.0667		94.0	65.2-135			

Matrix Spike (B9F1515-MS1)

Source: 0902757-05

Prepared: 06/15/09 Analyzed: 06/17/09

4,4'-DDD	0.0999	0.050	0.0015	mg/kg dry	0.104	<0.050	96.0	70-130			
4,4'-DDE	0.110	0.050	0.0016	mg/kg dry	0.104	<0.050	99.2	70-130			
4,4'-DDT	0.123	0.050	0.0019	mg/kg dry	0.104	<0.050	98.8	70-130			
a-Chlordane	0.101	0.050	0.0018	mg/kg dry	0.104	<0.050	97.2	70-130			
Aldrin	0.0999	0.050	0.0015	mg/kg dry	0.104	<0.050	96.0	70-130			
alpha-BHC	0.100	0.050	0.0019	mg/kg dry	0.104	<0.050	96.4	70-130			
beta-BHC	0.0991	0.050	0.0020	mg/kg dry	0.104	<0.050	95.2	70-130			
delta-BHC	0.105	0.050	0.0021	mg/kg dry	0.104	<0.050	101	70-130			
Dieldrin	0.102	0.050	0.0018	mg/kg dry	0.104	<0.050	98.4	70-130			
Endosulfan I	0.101	0.050	0.0019	mg/kg dry	0.104	<0.050	96.8	70-130			
Endosulfan II	0.0999	0.050	0.0019	mg/kg dry	0.104	<0.050	96.0	70-130			
Endosulfan sulfate	0.101	0.050	0.0019	mg/kg dry	0.104	<0.050	97.2	70-130			
Endrin	0.104	0.050	0.0018	mg/kg dry	0.104	<0.050	100	70-130			
Endrin aldehyde	0.0870	0.050	0.0019	mg/kg dry	0.104	<0.050	83.6	70-130			
Endrin ketone	0.100	0.050	0.0018	mg/kg dry	0.104	<0.050	96.4	70-130			
gamma-BHC (Lindane)	0.102	0.050	0.0018	mg/kg dry	0.104	<0.050	97.6	70-130			
gamma-Chlordane	0.0991	0.050	0.0018	mg/kg dry	0.104	<0.050	95.2	70-130			
Heptachlor	0.0991	0.050	0.0019	mg/kg dry	0.104	<0.050	95.2	70-130			
Heptachlor epoxide	0.101	0.050	0.0019	mg/kg dry	0.104	<0.050	96.8	70-130			
Methoxychlor	0.114	0.050	0.0019	mg/kg dry	0.104	<0.050	110	70-130			
Surrogate: Decachlorobiphenyl	0.0799			mg/kg dry	0.0833		96.0	83.7-130			
Surrogate: Tetrachloro-meta-xylene	0.0770			mg/kg dry	0.0833		92.5	65.2-135			

Matrix Spike Dup (B9F1515-MSD1)

Source: 0902757-05

Prepared: 06/15/09 Analyzed: 06/17/09

4,4'-DDD	0.0942	0.050	0.0015	mg/kg dry	0.104	<0.050	90.4	70-130	5.88	17.3	
4,4'-DDE	0.105	0.050	0.0016	mg/kg dry	0.104	<0.050	94.8	70-130	4.12	18.9	
4,4'-DDT	0.118	0.050	0.0019	mg/kg dry	0.104	<0.050	93.3	70-130	4.71	37.6	
a-Chlordane	0.0959	0.050	0.0018	mg/kg dry	0.104	<0.050	92.0	70-130	5.36	17.2	
Aldrin	0.0946	0.050	0.0015	mg/kg dry	0.104	<0.050	90.8	70-130	5.43	26.6	
alpha-BHC	0.0951	0.050	0.0019	mg/kg dry	0.104	<0.050	91.2	70-130	5.41	27.3	
beta-BHC	0.0942	0.050	0.0020	mg/kg dry	0.104	<0.050	90.4	70-130	5.04	24.7	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppel	Work Order #: 0902757 Date Reported: 07/28/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1515 - EPA 3545 ASE Extraction											
Matrix Spike Dup (B9F1515-MSD1)		Source: 0902757-05			Prepared: 06/15/09		Analyzed: 06/17/09				
delta-BHC	0.100	0.050	0.0021	mg/kg dry	0.104	<0.050	96.0	70-130	5.14	25.9	
Dieldrin	0.0984	0.050	0.0018	mg/kg dry	0.104	<0.050	94.4	70-130	4.02	24.6	
Endosulfan I	0.0955	0.050	0.0019	mg/kg dry	0.104	<0.050	91.6	70-130	5.39	18.2	
Endosulfan II	0.0951	0.050	0.0019	mg/kg dry	0.104	<0.050	91.2	70-130	4.99	16.6	
Endosulfan sulfate	0.0980	0.050	0.0019	mg/kg dry	0.104	<0.050	94.0	70-130	3.21	16.5	
Endrin	0.0992	0.050	0.0018	mg/kg dry	0.104	<0.050	95.2	70-130	4.78	18.9	
Endrin aldehyde	0.0830	0.050	0.0019	mg/kg dry	0.104	<0.050	79.6	70-130	4.77	17.9	
Endrin ketone	0.0955	0.050	0.0018	mg/kg dry	0.104	<0.050	91.6	70-130	4.97	15.7	
gamma-BHC (Lindane)	0.0963	0.050	0.0018	mg/kg dry	0.104	<0.050	92.4	70-130	5.34	27	
gamma-Chlordane	0.0942	0.050	0.0018	mg/kg dry	0.104	<0.050	90.4	70-130	5.04	20	
Heptachlor	0.0946	0.050	0.0019	mg/kg dry	0.104	<0.050	90.8	70-130	4.60	20.3	
Heptachlor epoxide	0.0959	0.050	0.0019	mg/kg dry	0.104	<0.050	92.0	70-130	4.95	26.2	
Methoxychlor	0.108	0.050	0.0019	mg/kg dry	0.104	<0.050	104	70-130	5.11	20.2	
Surrogate: Decachlorobiphenyl	0.0759			mg/kg dry	0.0834		91.0	83.7-130			
Surrogate: Tetrachloro-meta-xylene	0.0738			mg/kg dry	0.0834		88.5	65.2-135			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902757 Date Reported: 07/28/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1002 - Volatiles

Blank (B9F1002-BLK1)

Prepared & Analyzed: 06/10/09

1,1,1,2-Tetrachloroethane	< 0.026	0.25	0.026	mg/kg wet							
1,1,1-Trichloroethane	< 0.033	0.25	0.033	mg/kg wet							
1,1,2,2-Tetrachloroethane	< 0.025	0.25	0.025	mg/kg wet							
1,1,2-Trichloroethane	< 0.037	0.25	0.037	mg/kg wet							
1,1,2-Trichlorotrifluoroethane	< 0.065	0.25	0.065	mg/kg wet							
1,1-Dichloroethane	< 0.024	0.25	0.024	mg/kg wet							
1,1-Dichloroethene	< 0.025	0.25	0.025	mg/kg wet							
1,1-Dichloropropene	< 0.027	0.25	0.027	mg/kg wet							
1,2,3-Trichlorobenzene	< 0.066	0.50	0.066	mg/kg wet							
1,2,3-Trichloropropane	< 0.053	0.25	0.053	mg/kg wet							
1,2,4-Trichlorobenzene	< 0.064	0.50	0.064	mg/kg wet							
1,2,4-Trimethylbenzene	< 0.020	0.25	0.020	mg/kg wet							
1,2-Dibromo-3-chloropropane	< 0.057	0.50	0.057	mg/kg wet							
1,2-Dibromoethane (EDB)	< 0.038	0.25	0.038	mg/kg wet							
1,2-Dichlorobenzene	< 0.027	0.25	0.027	mg/kg wet							
1,2-Dichloroethane	< 0.025	0.25	0.025	mg/kg wet							
1,2-Dichloropropane	< 0.028	0.25	0.028	mg/kg wet							
1,3,5-Trimethylbenzene	< 0.015	0.25	0.015	mg/kg wet							
1,3-Dichlorobenzene	< 0.028	0.25	0.028	mg/kg wet							
1,3-Dichloropropane	< 0.017	0.25	0.017	mg/kg wet							
1,4-Dichlorobenzene	< 0.018	0.25	0.018	mg/kg wet							
2,2-Dichloropropane	< 0.068	0.50	0.068	mg/kg wet							
2-Butanone	< 0.12	2.0	0.12	mg/kg wet							
2-Chlorotoluene	< 0.018	0.25	0.018	mg/kg wet							
4-Chlorotoluene	< 0.029	0.25	0.029	mg/kg wet							
Acetone	< 0.32	2.0	0.32	mg/kg wet							
Allyl chloride	< 0.067	0.50	0.067	mg/kg wet							
Benzene	< 0.015	0.25	0.015	mg/kg wet							
Bromobenzene	< 0.019	0.25	0.019	mg/kg wet							
Bromochloromethane	< 0.025	0.25	0.025	mg/kg wet							
Bromodichloromethane	< 0.035	0.25	0.035	mg/kg wet							
Bromoform	< 0.080	0.50	0.080	mg/kg wet							
Bromomethane	< 0.14	0.50	0.14	mg/kg wet							
Carbon tetrachloride	< 0.027	0.25	0.027	mg/kg wet							
Chlorobenzene	< 0.025	0.25	0.025	mg/kg wet							
Chloroethane	< 0.073	0.25	0.073	mg/kg wet							
Chloroform	< 0.042	0.25	0.042	mg/kg wet							
Chloromethane	< 0.041	0.25	0.041	mg/kg wet							
cis-1,2-Dichloroethene	< 0.046	0.25	0.046	mg/kg wet							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902757 Date Reported: 07/28/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1002 - Volatiles

Blank (B9F1002-BLK1)

Prepared & Analyzed: 06/10/09

cis-1,3-Dichloropropene	< 0.023	0.25	0.023	mg/kg wet							
Dibromochloromethane	< 0.032	0.25	0.032	mg/kg wet							
Dibromomethane	< 0.046	0.25	0.046	mg/kg wet							
Dichlorodifluoromethane	< 0.082	0.50	0.082	mg/kg wet							
Dichlorofluoromethane	< 0.044	0.25	0.044	mg/kg wet							
Ethyl ether	< 0.048	0.50	0.048	mg/kg wet							
Ethylbenzene	< 0.022	0.25	0.022	mg/kg wet							
Hexachlorobutadiene	< 0.13	1.0	0.13	mg/kg wet							
Isopropylbenzene	< 0.023	0.25	0.023	mg/kg wet							
m,p-Xylene	< 0.088	0.50	0.088	mg/kg wet							
Methyl isobutyl ketone	< 0.092	0.50	0.092	mg/kg wet							
Methyl tert-butyl ether	< 0.017	0.25	0.017	mg/kg wet							
Methylene chloride	< 0.17	1.0	0.17	mg/kg wet							
Naphthalene	< 0.065	0.50	0.065	mg/kg wet							
n-Butylbenzene	< 0.032	0.25	0.032	mg/kg wet							
n-Propylbenzene	< 0.014	0.25	0.014	mg/kg wet							
o-Xylene	< 0.031	0.25	0.031	mg/kg wet							
p-Isopropyltoluene	< 0.030	0.25	0.030	mg/kg wet							
sec-Butylbenzene	< 0.010	0.25	0.010	mg/kg wet							
Styrene	< 0.040	0.25	0.040	mg/kg wet							
tert-Butylbenzene	< 0.018	0.25	0.018	mg/kg wet							
Tetrachloroethene	< 0.035	0.25	0.035	mg/kg wet							
Tetrahydrofuran	< 0.10	2.0	0.10	mg/kg wet							
Toluene	< 0.028	0.25	0.028	mg/kg wet							
trans-1,2-Dichloroethene	< 0.022	0.25	0.022	mg/kg wet							
trans-1,3-Dichloropropene	< 0.035	0.25	0.035	mg/kg wet							
Trichloroethene	< 0.040	0.25	0.040	mg/kg wet							
Trichlorofluoromethane	< 0.032	0.25	0.032	mg/kg wet							
Vinyl chloride	< 0.023	0.25	0.023	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	52.3			ug/L	50.0		105	80-120			
Surrogate: Dibromofluoromethane	53.1			ug/L	50.0		106	80-120			
Surrogate: Toluene-d8	52.5			ug/L	50.0		105	80-120			

LCS (B9F1002-BS1)

Prepared & Analyzed: 06/10/09

1,1,2,2-Tetrachloroethane	47.6			ug/L	50.0		95.3	80-120			
1,1-Dichloroethane	52.6			ug/L	50.0		105	78.8-120			
1,1-Dichloroethene	54.0			ug/L	50.0		108	75-125			
1,3,5-Trimethylbenzene	47.9			ug/L	50.0		95.9	80-120			
1,4-Dichlorobenzene	48.6			ug/L	50.0		97.2	75-125			
2-Chlorotoluene	47.2			ug/L	50.0		94.5	80-120			

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902757
 Date Reported: 07/28/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1002 - Volatiles

LCS (B9F1002-BS1)

Prepared & Analyzed: 06/10/09

Benzene	50.8			ug/L	50.0		102	80-120			
Bromoform	51.4			ug/L	50.0		103	77.1-125			
Chlorobenzene	51.0			ug/L	50.0		102	80-120			
Chloroform	52.9			ug/L	50.0		106	77.3-120			
Ethylbenzene	52.3			ug/L	50.0		105	80-120			
n-Butylbenzene	50.5			ug/L	50.0		101	70.1-125			
n-Propylbenzene	47.0			ug/L	50.0		93.9	75-120			
Toluene	51.5			ug/L	50.0		103	80-120			
Trichloroethene	50.8			ug/L	50.0		102	80-120			
Vinyl chloride	60.9			ug/L	50.0		122	70-130			
Surrogate: 4-Bromofluorobenzene	56.5			ug/L	50.0		113	80-120			
Surrogate: Dibromofluoromethane	54.7			ug/L	50.0		109	80-120			
Surrogate: Toluene-d8	52.7			ug/L	50.0		105	80-120			

Matrix Spike (B9F1002-MS1)

Source: 0902742-01

Prepared & Analyzed: 06/10/09

1,1,2,2-Tetrachloroethane	46.3			ug/L	50.0	<	92.5	80-120			
1,1-Dichloroethane	51.3			ug/L	50.0	<	103	77.5-120			
1,1-Dichloroethene	53.2			ug/L	50.0	<	106	76.1-125			
1,3,5-Trimethylbenzene	46.2			ug/L	50.0	<	92.3	80-120			
1,4-Dichlorobenzene	49.1			ug/L	50.0	<	98.1	75-125			
2-Chlorotoluene	45.2			ug/L	50.0	<	90.3	76.9-120			
Benzene	49.5			ug/L	50.0	<	98.9	80-120			
Bromoform	51.0			ug/L	50.0	<	102	80-125			
Chlorobenzene	50.2			ug/L	50.0	<	100	80-120			
Chloroform	51.6			ug/L	50.0	<	103	80-120			
Ethylbenzene	50.5			ug/L	50.0	<	101	80-120			
n-Butylbenzene	49.8			ug/L	50.0	<	99.6	74.7-125			
n-Propylbenzene	44.7			ug/L	50.0	<	89.4	75-120			
Toluene	49.5			ug/L	50.0	<	99.0	80-120			
Trichloroethene	50.4			ug/L	50.0	<	101	80-120			
Vinyl chloride	57.9			ug/L	50.0	<	116	70-125			
Surrogate: 4-Bromofluorobenzene	54.1			ug/L	50.0		108	80-120			
Surrogate: Dibromofluoromethane	54.3			ug/L	50.0		109	80-120			
Surrogate: Toluene-d8	51.8			ug/L	50.0		104	80-120			

Matrix Spike Dup (B9F1002-MSD1)

Source: 0902742-01

Prepared & Analyzed: 06/10/09

1,1,2,2-Tetrachloroethane	45.4			ug/L	50.0	<	90.8	80-120	1.84	20	
1,1-Dichloroethane	51.6			ug/L	50.0	<	103	77.5-120	0.558	20	
1,1-Dichloroethene	55.2			ug/L	50.0	<	110	76.1-125	3.79	20	
1,3,5-Trimethylbenzene	46.4			ug/L	50.0	<	92.9	80-120	0.603	20	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902757
 Date Reported: 07/28/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1002 - Volatiles											
Matrix Spike Dup (B9F1002-MSD1)			Source: 0902742-01			Prepared & Analyzed: 06/10/09					
1,4-Dichlorobenzene	47.7			ug/L	50.0	<	95.3	75-125	2.89	20	
2-Chlorotoluene	45.8			ug/L	50.0	<	91.6	76.9-120	1.39	20	
Benzene	50.5			ug/L	50.0	<	101	80-120	2.15	20	
Bromoform	50.3			ug/L	50.0	<	101	80-125	1.26	20	
Chlorobenzene	49.2			ug/L	50.0	<	98.5	80-120	1.86	20	
Chloroform	51.4			ug/L	50.0	<	103	80-120	0.421	20	
Ethylbenzene	49.8			ug/L	50.0	<	99.6	80-120	1.40	20	
n-Butylbenzene	48.8			ug/L	50.0	<	97.6	74.7-125	2.06	20	
n-Propylbenzene	45.6			ug/L	50.0	<	91.2	75-120	1.98	20	
Toluene	50.5			ug/L	50.0	<	101	80-120	2.12	20	
Trichloroethene	53.1			ug/L	50.0	<	106	80-120	5.30	20	
Vinyl chloride	61.2			ug/L	50.0	<	122	70-125	5.56	20	
Surrogate: 4-Bromofluorobenzene	55.3			ug/L	50.0		111	80-120			
Surrogate: Dibromofluoromethane	54.0			ug/L	50.0		108	80-120			
Surrogate: Toluene-d8	52.4			ug/L	50.0		105	80-120			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902757 Date Reported: 07/28/09
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Notes and Definitions

<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

LEGEND

HLR\GSTD\FORMS\Chain of Custody Form RLG Rev 07/01/05

Chain of Custody

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600



Project Number
23/190-B05.07 SOC 350

Project Name
UMA Phase II Env. Investigation NO 28194
(Common Park)

Sample Identification	Collection		Matrix		Type	Comp	OC
	Date	Time	Water	Soil			
1. SOC6-GP7-0-4'	6/3/09	1415	X	X	X	X	X
2. SOC6-GP6-2-4'	6/3/09	1515	X	X	X	X	X
3. SOC6-DUP-1	6/4/09	-	X	X	X	X	X
4. SOC6-GP8-2-4'	6/4/09	910	X	X	X	X	X
5. SOC6-GP5-1-2'	6/4/09	945	X	X	X	X	X
6. SOC3-GP1-1-2'	6/4/09	1145	X	X	X	X	X
7. SOC3-GP3-0-0.5'	6/4/09	1315	X	X	X	X	X
8. SOC3-GP1-0-0.5'	6/4/09	1145	X	X	X	X	X
9. Trip Blm/c	-	-	X	X	X	X	X
10. SOC3-DUP2	6/4/09	-	X	X	X	X	X
11. SOC3-DUP2	6/4/09	-	X	X	X	X	X
12. MS/MSD	6/4/09	-	X	X	X	X	X

- Common Parameter/Container - Preservation Key
- *1 - Volatile Organics = BTEX, GRO TPH, Full List
 - *2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
 - *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
 - *4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Number of Containers/Preservative	Soil														Water		Remarks	
	VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH) *1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved) (PPL)	SVOCS (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)	Organochlorine (GC) + (GC/MS)	Phys. (GC/MS)	Total No. of Containers	COC	Project Manager	Project Contact	Sampled by	Laboratory	Remarks			
2	X	X	X	X	X	X	X	2	1.6°C	Jim Aiken	Marta Nelson	Jim Eidem	Legend Tech					
2	X	X	X	X	X	X	X	2										
2	X	X	X	X	X	X	X	2										
2	X	X	X	X	X	X	X	2										
2	X	X	X	X	X	X	X	2										
3	X	X	X	X	X	X	X	3										
2	X	X	X	X	X	X	X	2										
2	X	X	X	X	X	X	X	2										
1	X	X	X	X	X	X	X	1										
1	X	X	X	X	X	X	X	1										
2	X	X	X	X	X	X	X	2										
3	X	X	X	X	X	X	X	3										

Received by: [Signature] Date: 6/5/09 Time: 11:15

Air Bill Number: [Blank]

Relinquished By: [Signature] Date: [Blank]

Relinquished By: [Signature] Date: [Blank]

Samples Shipped Via: Air Freight Federal Express Other

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator



88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

July 28, 2009

REVISION

Ms. Kelly Neppi
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0902779
RE: 23/19-0B05.07

This is a revised report. The details of the revision are listed in the case narrative on the following page.

Enclosed are the results of analyses for samples received by the laboratory on 06/10/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of the original report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

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Client Manager I
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Barb Rutten
Report Reviewer
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Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902779 Date Reported: 07/28/09
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC3-GP3	0902779-01	Water	06/09/09 09:00	06/10/09 11:37
SOC3-GP4	0902779-02	Water	06/09/09 09:30	06/10/09 11:37
GP-DUP-3	0902779-03	Water	06/09/09 10:35	06/10/09 11:37
SOC3-GP2	0902779-04	Water	06/09/09 10:30	06/10/09 11:37
SOC1-GP3, 0-4	0902779-05	Soil	06/09/09 12:00	06/10/09 11:37
SOC1-DUP-4	0902779-06	Soil	06/09/09 12:05	06/10/09 11:37
SOC1-GP3	0902779-07	Water	06/09/09 14:00	06/10/09 11:37
Trip Blank	0902779-08	Water	05/29/09 00:00	06/10/09 11:37

Shipping Container Information

Default Cooler Temperature (°C): 4.5

Received on ice: Yes Temperature blank was present Received on ice pack: No
 Received on melt water: No Ambient: No Acceptable (IH/ISO only): No
 Custody seals: No

Case Narrative:

This report contains data that were produced by a subcontracted laboratory certified for the fields of testing performed. The total kjeldahl as N and nitrate/nitrite as N analyses for the Clean Water Program were performed by Davy Laboratories, LaCrosse, WI, #055-999-151.

Recovery for vinyl chloride in the batch B9F1204 MS/MSD was above the 8260 laboratory limits but within limits in the LCS. The MS/MSD source sample was SOC3-GP3.

Recoveries for the 8270 SVOC compounds 1,4-dichlorobenzene in the batch B9F1505 MS/MSD and 2,4-dinitrotoluene, benzo[a] pyrene, and anthracene in the MSD were below laboratory limits. All spike compounds and surrogates were within limits in the batch method blank and LCS. The MS/MSD source sample was not associated with this work order.

An LCS/LCSD were prepared and analyzed for 8081A batch B9F1507 instead of the method specified LCS/MS/MSD. Insufficient sample was received to meet method QC requirements.

Beryllium recoveries in the MS/MSD samples for ICP-MS batch B9F2215 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was not associated with this work order.

This report was revised on 7/28/09 to correct the ICP lead results for samples SOC3-GP2, SOC1-GP3, 0-4, and SOC1-GP3.

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-DUP-3 (0902779-03) Water Sampled: 06/09/09 10:35 Received: 06/10/09 11:37										F-01
Antimony	<0.50	0.50	0.046	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Arsenic	<0.010	0.010	0.0020	mg/L	1	B9F1107	06/12/09	06/16/09	EPA 6010B (Dissolved)	
Beryllium	<0.50	0.50	0.027	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Cadmium	<0.0010	0.0010	0.000099	mg/L	1	B9F1107	06/12/09	06/16/09	EPA 6010B (Dissolved)	
Chromium	0.042	0.010	0.00024	mg/L	1	"	"	"	"	
Copper	<0.020	0.020	0.0014	mg/L	1	"	"	"	"	
Lead	<0.0030	0.0030	0.00068	mg/L	1	"	"	"	"	
Mercury	<0.00020	0.00020	0.000031	mg/L	1	B9F1112	06/11/09	06/15/09	EPA 7470A (Dissolved)	
Nickel	0.011	0.0050	0.00028	mg/L	1	B9F1107	06/12/09	06/16/09	EPA 6010B (Dissolved)	
Selenium	<0.020	0.020	0.0022	mg/L	1	"	"	"	"	
Silver	<0.0050	0.0050	0.00018	mg/L	1	"	"	"	"	
Thallium	<0.50	0.50	0.0081	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Zinc	0.026	0.020	0.0044	mg/L	1	B9F1107	06/12/09	06/16/09	EPA 6010B (Dissolved)	
SOC3-GP2 (0902779-04) Water Sampled: 06/09/09 10:30 Received: 06/10/09 11:37										F-01
Antimony	<0.50	0.50	0.046	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Arsenic	0.057	0.010	0.0020	mg/L	1	B9F1107	06/12/09	06/16/09	EPA 6010B (Dissolved)	
Beryllium	<0.50	0.50	0.027	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Cadmium	0.0010	0.0010	0.000099	mg/L	1	B9F1107	06/12/09	06/16/09	EPA 6010B (Dissolved)	
Chromium	0.36	0.010	0.00024	mg/L	1	"	"	"	"	
Copper	0.21	0.020	0.0014	mg/L	1	"	"	"	"	
Lead	0.067	0.0030	0.00068	mg/L	1	"	"	"	"	
Mercury	<0.00020	0.00020	0.000031	mg/L	1	B9F1112	06/11/09	06/15/09	EPA 7470A (Dissolved)	
Nickel	0.25	0.0050	0.00028	mg/L	1	B9F1107	06/12/09	06/16/09	EPA 6010B (Dissolved)	
Selenium	<0.020	0.020	0.0022	mg/L	1	"	"	"	"	
Silver	<0.0050	0.0050	0.00018	mg/L	1	"	"	"	"	
Thallium	<0.50	0.50	0.0081	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Zinc	0.44	0.020	0.0044	mg/L	1	B9F1107	06/12/09	06/16/09	EPA 6010B (Dissolved)	
SOC1-GP3 (0902779-07) Water Sampled: 06/09/09 14:00 Received: 06/10/09 11:37										F-01
Antimony	<0.50	0.50	0.046	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Arsenic	0.22	0.010	0.0020	mg/L	1	B9F1107	06/12/09	06/16/09	EPA 6010B (Dissolved)	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP3 (0902779-07) Water										F-01
Sampled: 06/09/09 14:00 Received: 06/10/09 11:37										
Beryllium	<0.50	0.50	0.027	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Cadmium	0.0092	0.0010	0.000099	mg/L	1	B9F1107	06/12/09	06/16/09	EPA 6010B (Dissolved)	
Chromium	0.59	0.010	0.00024	mg/L	1	"	"	"	"	
Copper	0.99	0.020	0.0014	mg/L	1	"	"	"	"	
Lead	0.21	0.0030	0.00068	mg/L	1	"	"	"	"	
Mercury	0.00034	0.00020	0.000031	mg/L	1	B9F1112	06/11/09	06/15/09	EPA 7470A (Dissolved)	
Nickel	0.65	0.0050	0.00028	mg/L	1	B9F1107	06/12/09	06/16/09	EPA 6010B (Dissolved)	
Selenium	<0.020	0.020	0.0022	mg/L	1	"	"	"	"	
Silver	<0.0050	0.0050	0.00018	mg/L	1	"	"	"	"	
Thallium	<0.50	0.50	0.0081	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Zinc	1.4	0.020	0.0044	mg/L	1	B9F1107	06/12/09	06/16/09	EPA 6010B (Dissolved)	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP3, 0-4 (0902779-05) Soil Sampled: 06/09/09 12:00 Received: 06/10/09 11:37										
Antimony	<0.67	0.67	0.0073	mg/kg dry	1	B9F1513	06/15/09	06/16/09	EPA 6010B	
Arsenic	4.3	0.67	0.13	mg/kg dry	1	"	"	"	"	
Beryllium	<0.33	0.33	0.015	mg/kg dry	1	"	"	"	"	
Cadmium	<0.33	0.33	0.033	mg/kg dry	1	"	"	"	"	
Chromium	15	0.67	0.016	mg/kg dry	1	"	"	"	"	
Copper	14	1.3	0.093	mg/kg dry	1	"	"	"	"	
Lead	7.0	1.3	0.045	mg/kg dry	1	"	"	"	"	
Mercury	<0.13	0.13	0.0041	mg/kg dry	1	B9F1111	06/11/09	06/15/09	EPA 7471A	
Nickel	16	0.67	0.019	mg/kg dry	1	B9F1513	06/15/09	06/16/09	EPA 6010B	
Selenium	<1.3	1.3	0.15	mg/kg dry	1	"	"	"	"	
Silver	<0.33	0.33	0.012	mg/kg dry	1	"	"	"	"	
Thallium	<2.7	2.7	0.17	mg/kg dry	1	"	"	"	"	
Zinc	42	1.3	0.29	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP3, 0-4 (0902779-05) Soil Sampled: 06/09/09 12:00 Received: 06/10/09 11:37										
% Solids	75			%	1	B9F1608	06/16/09	06/16/09	% calculation	
SOC1-DUP-4 (0902779-06) Soil Sampled: 06/09/09 12:05 Received: 06/10/09 11:37										
% Solids	81			%	1	B9F1608	06/16/09	06/16/09	% calculation	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902779 Date Reported: 07/28/09
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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-GP3 (0902779-01) Water Sampled: 06/09/09 09:00 Received: 06/10/09 11:37										
4,4'-DDD	<0.034	0.37	0.034	ug/L	1	B9F1507	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
4,4'-DDT	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
a-Chlordane	<0.035	0.37	0.035	ug/L	1	"	"	"	"	
Aldrin	<0.036	0.37	0.036	ug/L	1	"	"	"	"	
alpha-BHC	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
beta-BHC	<0.049	0.37	0.049	ug/L	1	"	"	"	"	
delta-BHC	<0.043	0.37	0.043	ug/L	1	"	"	"	"	
Dieldrin	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
Endosulfan I	<0.037	0.37	0.037	ug/L	1	"	"	"	"	
Endosulfan II	<0.038	0.37	0.038	ug/L	1	"	"	"	"	
Endosulfan sulfate	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
Endrin	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
Endrin aldehyde	<0.047	0.37	0.047	ug/L	1	"	"	"	"	
Endrin ketone	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
gamma-BHC (Lindane)	<0.044	0.37	0.044	ug/L	1	"	"	"	"	
gamma-Chlordane	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
Heptachlor	<0.036	0.37	0.036	ug/L	1	"	"	"	"	
Heptachlor epoxide	<0.038	0.37	0.038	ug/L	1	"	"	"	"	
Methoxychlor	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
Toxaphene	<0.18	0.93	0.18	ug/L	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	85.0					"	"	06/17/09	"	
Surrogate: Tetrachloro-meta-xylene	80.0					"	"	"	"	

SOC3-GP2 (0902779-04) Water Sampled: 06/09/09 10:30 Received: 06/10/09 11:37										
4,4'-DDD	<0.034	0.37	0.034	ug/L	1	B9F1507	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
4,4'-DDT	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
a-Chlordane	<0.035	0.37	0.035	ug/L	1	"	"	"	"	
Aldrin	<0.036	0.37	0.036	ug/L	1	"	"	"	"	
alpha-BHC	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
beta-BHC	<0.049	0.37	0.049	ug/L	1	"	"	"	"	
delta-BHC	<0.043	0.37	0.043	ug/L	1	"	"	"	"	
Dieldrin	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
Endosulfan I	<0.037	0.37	0.037	ug/L	1	"	"	"	"	
Endosulfan II	<0.038	0.37	0.038	ug/L	1	"	"	"	"	
Endosulfan sulfate	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
Endrin	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
Endrin aldehyde	<0.047	0.37	0.047	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-GP2 (0902779-04) Water Sampled: 06/09/09 10:30 Received: 06/10/09 11:37										
Endrin ketone	<0.039	0.37	0.039	ug/L	1	B9F1507	06/15/09	06/17/09	EPA 8081A	
gamma-BHC (Lindane)	<0.044	0.37	0.044	ug/L	1	"	"	"	"	
gamma-Chlordane	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
Heptachlor	<0.036	0.37	0.036	ug/L	1	"	"	"	"	
Heptachlor epoxide	<0.038	0.37	0.038	ug/L	1	"	"	"	"	
Methoxychlor	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
Toxaphene	<0.18	0.93	0.18	ug/L	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	102			80.6-122 %		"	"	06/17/09	"	
Surrogate: Tetrachloro-meta-xylene	81.5			71.7-111 %		"	"	"	"	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05.07SOC350
 Project Manager: Ms. Kelly Neppel

Work Order #: 0902779
 Date Reported: 07/28/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC3-GP2 (0902779-04) Water **Sampled: 06/09/09 10:30** **Received: 06/10/09 11:37**

1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9F1505	06/15/09	06/15/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3'-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-GP2 (0902779-04) Water Sampled: 06/09/09 10:30 Received: 06/10/09 11:37										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9F1505	06/15/09	06/15/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	71.9			48.5-114 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	67.2			41.7-98.4 %		"	"	"	"	
Surrogate: 2-Fluorophenol	40.4			30-93.5 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	74.8			47.4-97.8 %		"	"	"	"	
Surrogate: Phenol-d6	34.9			30-91.5 %		"	"	"	"	
Surrogate: Terphenyl-d14	45.6			30-108 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC1-GP3, 0-4 (0902779-05) Soil Sampled: 06/09/09 12:00 Received: 06/10/09 11:37

1,2,4-Trichlorobenzene	<0.036	0.44	0.036	mg/kg dry	1	B9F1703	06/17/09	06/19/09	EPA 8270C	
1,2-Dichlorobenzene	<0.033	0.44	0.033	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.027	0.44	0.027	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.031	0.44	0.031	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.032	0.44	0.032	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.051	0.89	0.051	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.032	0.89	0.032	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.047	0.89	0.047	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.047	0.89	0.047	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.12	0.89	0.12	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.077	0.89	0.077	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.028	0.44	0.028	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.057	0.89	0.057	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.025	0.44	0.025	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.025	0.44	0.025	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.051	0.89	0.051	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.037	0.44	0.037	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.047	0.89	0.047	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.027	0.44	0.027	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.048	0.89	0.048	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.52	2.1	0.52	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.044	0.44	0.044	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.099	0.89	0.099	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.023	0.44	0.023	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.053	0.89	0.053	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.15	0.89	0.15	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.031	0.44	0.031	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.036	0.89	0.036	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.031	0.44	0.031	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.13	0.89	0.13	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.037	0.44	0.037	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.031	0.44	0.031	mg/kg dry	1	"	"	"	"	
Aniline	<0.12	0.89	0.12	mg/kg dry	1	"	"	"	"	
Anthracene	<0.033	0.44	0.033	mg/kg dry	1	"	"	"	"	
Benzidine	<0.96	3.3	0.96	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.036	0.44	0.036	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.036	0.44	0.036	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.045	0.44	0.045	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.040	0.44	0.040	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP3, 0-4 (0902779-05) Soil Sampled: 06/09/09 12:00 Received: 06/10/09 11:37										
Benzo (k) fluoranthene	<0.041	0.44	0.041	mg/kg dry	1	B9F1703	06/17/09	06/19/09	EPA 8270C	
Benzoic acid	<0.077	0.44	0.077	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.16	0.89	0.16	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.028	0.44	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.032	0.44	0.032	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.029	0.44	0.029	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.027	0.44	0.027	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.028	0.44	0.028	mg/kg dry	1	"	"	"	"	
Carbazole	<0.029	0.44	0.029	mg/kg dry	1	"	"	"	"	
Chrysene	<0.044	0.44	0.044	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.045	0.44	0.045	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.025	0.44	0.025	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.020	0.44	0.020	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.024	0.44	0.024	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.049	0.44	0.049	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.033	0.44	0.033	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.032	0.44	0.032	mg/kg dry	1	"	"	"	"	
Fluorene	<0.024	0.44	0.024	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.021	0.44	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.044	0.44	0.044	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.055	0.44	0.055	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.037	0.44	0.037	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.043	0.44	0.043	mg/kg dry	1	"	"	"	"	
Isophorone	<0.023	0.44	0.023	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.039	0.44	0.039	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.040	0.44	0.040	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.043	0.44	0.043	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.033	0.44	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.024	0.44	0.024	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.13	0.89	0.13	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.025	0.44	0.025	mg/kg dry	1	"	"	"	"	
Phenol	<0.076	0.89	0.076	mg/kg dry	1	"	"	"	"	
Pyrene	<0.031	0.44	0.031	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	66.3			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	64.5			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	59.4			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	63.9			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	64.7			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	59.4			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-DUP-4 (0902779-06) Soil Sampled: 06/09/09 12:05 Received: 06/10/09 11:37										
1,2,4-Trichlorobenzene	<0.033	0.41	0.033	mg/kg dry	1	B9F1703	06/17/09	06/19/09	EPA 8270C	
1,2-Dichlorobenzene	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.047	0.83	0.047	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.030	0.83	0.030	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.83	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.072	0.83	0.072	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.053	0.83	0.053	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.047	0.83	0.047	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.044	0.83	0.044	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.48	2.0	0.48	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.091	0.83	0.091	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.021	0.41	0.021	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.049	0.83	0.049	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.14	0.83	0.14	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.033	0.83	0.033	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.83	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.83	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
Benzidine	<0.89	3.1	0.89	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.033	0.41	0.033	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.033	0.41	0.033	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.042	0.41	0.042	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.037	0.41	0.037	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-DUP-4 (0902779-06) Soil Sampled: 06/09/09 12:05 Received: 06/10/09 11:37										
Benzo (k) fluoranthene	<0.038	0.41	0.038	mg/kg dry	1	B9F1703	06/17/09	06/19/09	EPA 8270C	
Benzoic acid	<0.072	0.41	0.072	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.83	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.027	0.41	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
Carbazole	<0.027	0.41	0.027	mg/kg dry	1	"	"	"	"	
Chrysene	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.042	0.41	0.042	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.019	0.41	0.019	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.046	0.41	0.046	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
Fluorene	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.020	0.41	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.051	0.41	0.051	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.040	0.41	0.040	mg/kg dry	1	"	"	"	"	
Isophorone	<0.021	0.41	0.021	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.036	0.41	0.036	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.037	0.41	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.040	0.41	0.040	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.83	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
Phenol	<0.070	0.83	0.070	mg/kg dry	1	"	"	"	"	
Pyrene	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	57.7			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	57.4			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	51.0			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	58.5			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	58.2			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	54.6			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP3 (0902779-07) Water Sampled: 06/09/09 14:00 Received: 06/10/09 11:37										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9F1505	06/15/09	06/15/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3'-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP3 (0902779-07) Water Sampled: 06/09/09 14:00 Received: 06/10/09 11:37										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9F1505	06/15/09	06/15/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	52.5			48.5-114 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	65.4			41.7-98.4 %		"	"	"	"	
Surrogate: 2-Fluorophenol	40.2			30-93.5 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	71.1			47.4-97.8 %		"	"	"	"	
Surrogate: Phenol-d6	35.1			30-91.5 %		"	"	"	"	
Surrogate: Terphenyl-d14	32.0			30-108 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-GP3 (0902779-01) Water Sampled: 06/09/09 09:00 Received: 06/10/09 11:37										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9F1204	06/12/09	06/12/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-GP3 (0902779-01) Water Sampled: 06/09/09 09:00 Received: 06/10/09 11:37										
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	B9F1204	06/12/09	06/12/09	EPA 8260B	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	M1
Surrogate: 4-Bromofluorobenzene	117			76.4-125 %		"	"	"	"	
Surrogate: Dibromofluoromethane	108			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	104			80-125 %		"	"	"	"	

SOC3-GP4 (0902779-02) Water Sampled: 06/09/09 09:30 Received: 06/10/09 11:37										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9F1204	06/12/09	06/12/09	EPA 8260B	
1,1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	

Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Project: 23/19-0B05.07
Project Number: 23/19-0B05.07SOC350
Project Manager: Ms. Kelly Neppi

Work Order #: 0902779
Date Reported: 07/28/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC3-GP4 (0902779-02) Water **Sampled: 06/09/09 09:30** **Received: 06/10/09 11:37**

1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	B9F1204	06/12/09	06/12/09	EPA 8260B	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-GP4 (0902779-02) Water Sampled: 06/09/09 09:30 Received: 06/10/09 11:37										
Ethyl ether	<0.53	5.0	0.53	ug/L	1	B9F1204	06/12/09	06/12/09	EPA 8260B	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104			76.4-125 %		"	"	"	"	
Surrogate: Dibromofluoromethane	106			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	97.2			80-125 %		"	"	"	"	

SOC3-GP2 (0902779-04) Water Sampled: 06/09/09 10:30 Received: 06/10/09 11:37										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9F1204	06/12/09	06/12/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	

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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC3-GP2 (0902779-04) Water **Sampled: 06/09/09 10:30** **Received: 06/10/09 11:37**

1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	B9F1204	06/12/09	06/12/09	EPA 8260B	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-GP2 (0902779-04) Water Sampled: 06/09/09 10:30 Received: 06/10/09 11:37										
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	B9F1204	06/12/09	06/12/09	EPA 8260B	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104			76.4-125 %		"	"	"	"	
Surrogate: Dibromofluoromethane	107			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	98.0			80-125 %		"	"	"	"	

SOC1-GP3 (0902779-07) Water Sampled: 06/09/09 14:00 Received: 06/10/09 11:37										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9F1204	06/12/09	06/12/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP3 (0902779-07) Water Sampled: 06/09/09 14:00 Received: 06/10/09 11:37										
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	B9F1204	06/12/09	06/12/09	EPA 8260B	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	

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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP3 (0902779-07) Water Sampled: 06/09/09 14:00 Received: 06/10/09 11:37										
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	B9F1204	06/12/09	06/12/09	EPA 8260B	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103			76.4-125 %		"	"	"	"	
Surrogate: Dibromofluoromethane	104			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	98.5			80-125 %		"	"	"	"	

Trip Blank (0902779-08) Water Sampled: 05/29/09 00:00 Received: 06/10/09 11:37										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9F1204	06/12/09	06/12/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (0902779-08) Water Sampled: 05/29/09 00:00 Received: 06/10/09 11:37										
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	B9F1204	06/12/09	06/12/09	EPA 8260B	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	1.7	5.0	0.65	ug/L	1	"	"	"	"	J
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (0902779-08) Water Sampled: 05/29/09 00:00 Received: 06/10/09 11:37										
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	B9F1204	06/12/09	06/12/09	EPA 8260B	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	118			76.4-125 %		"	"	"	"	
Surrogate: Dibromofluoromethane	104			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	102			80-125 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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**Analytical Results
 Davy Laboratories, Inc.**

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-GP3 (0902779-01) Water Sampled: 06/09/09 09:00 Received: 06/10/09 11:37										
Nitrate/Nitrite as N	13.7	0.06	0.02	mg/L	1	N/A		06/17/09	SM 4500 NO3-F-00	
Total Kjeldahl as N	1.02	0.55	0.15	mg/L	1	"	"	06/16/09	SM 4500 NH3 C-97	
SOC3-GP2 (0902779-04) Water Sampled: 06/09/09 10:30 Received: 06/10/09 11:37										
Nitrate/Nitrite as N	4.80	0.06	0.02	mg/L	1	N/A		06/17/09	SM 4500 NO3-F-00	
Total Kjeldahl as N	0.88	0.55	0.15	mg/L	1	"	"	06/16/09	SM 4500 NH3 C-97	
SOC1-GP3 (0902779-07) Water Sampled: 06/09/09 14:00 Received: 06/10/09 11:37										
Nitrate/Nitrite as N	2.46	0.06	0.02	mg/L	1	N/A		06/17/09	SM 4500 NO3-F-00	
Total Kjeldahl as N	0.93	0.55	0.15	mg/L	1	"	"	06/23/09	SM 4500 NH3 C-97	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1107 - EPA 200.7/3005A Digestion

Blank (B9F1107-BLK1)

Prepared: 06/12/09 Analyzed: 06/15/09

Arsenic	< 0.010	0.010	0.0020	mg/L							
Cadmium	< 0.0010	0.0010	0.000099	mg/L							
Chromium	< 0.010	0.010	0.00024	mg/L							
Copper	< 0.020	0.020	0.0014	mg/L							
Lead	< 0.0030	0.0030	0.00068	mg/L							
Nickel	< 0.0050	0.0050	0.00028	mg/L							
Selenium	< 0.020	0.020	0.0022	mg/L							
Silver	< 0.0050	0.0050	0.00018	mg/L							
Zinc	< 0.020	0.020	0.0044	mg/L							

LCS (B9F1107-BS1)

Prepared: 06/12/09 Analyzed: 06/15/09

Arsenic	0.362	0.010	0.0020	mg/L	0.399		90.8	80-120			
Cadmium	0.382	0.0010	0.000099	mg/L	0.399		95.6	80-120			
Chromium	0.375	0.010	0.00024	mg/L	0.399		94.1	80-120			
Copper	0.363	0.020	0.0014	mg/L	0.399		90.9	80-120			
Lead	0.379	0.0030	0.00068	mg/L	0.399		95.0	80-120			
Nickel	0.379	0.0050	0.00028	mg/L	0.399		95.0	80-120			
Selenium	0.359	0.020	0.0022	mg/L	0.399		89.9	80-120			
Silver	0.0376	0.0050	0.00018	mg/L	0.0399		94.4	80-120			
Zinc	0.378	0.020	0.0044	mg/L	0.399		94.7	80-120			

LCS Dup (B9F1107-BSD1)

Prepared: 06/12/09 Analyzed: 06/15/09

Arsenic	0.360	0.010	0.0020	mg/L	0.399		90.2	80-120	0.626	20	
Cadmium	0.379	0.0010	0.000099	mg/L	0.399		95.1	80-120	0.597	20	
Chromium	0.373	0.010	0.00024	mg/L	0.399		93.6	80-120	0.550	20	
Copper	0.359	0.020	0.0014	mg/L	0.399		90.1	80-120	0.923	20	
Lead	0.377	0.0030	0.00068	mg/L	0.399		94.4	80-120	0.651	20	
Nickel	0.377	0.0050	0.00028	mg/L	0.399		94.6	80-120	0.463	20	
Selenium	0.357	0.020	0.0022	mg/L	0.399		89.5	80-120	0.445	20	
Silver	0.0374	0.0050	0.00018	mg/L	0.0399		93.8	80-120	0.545	20	
Zinc	0.378	0.020	0.0044	mg/L	0.399		94.7	80-120	0.000347	20	

Matrix Spike (B9F1107-MS1)

Source: 0902751-01

Prepared: 06/12/09 Analyzed: 06/15/09

Arsenic	0.348	0.010	0.0020	mg/L	0.399	<0.010	87.1	75-125			
Cadmium	0.355	0.0010	0.000099	mg/L	0.399	<0.0010	89.0	75-125			
Chromium	0.354	0.010	0.00024	mg/L	0.399	<0.010	88.5	75-125			
Copper	0.345	0.020	0.0014	mg/L	0.399	<0.020	86.5	75-125			
Lead	0.354	0.0030	0.00068	mg/L	0.399	<0.0030	88.6	75-125			
Nickel	0.356	0.0050	0.00028	mg/L	0.399	<0.0050	88.7	75-125			
Selenium	0.347	0.020	0.0022	mg/L	0.399	<0.020	87.0	75-125			
Silver	0.0357	0.0050	0.00018	mg/L	0.0399	<0.0050	89.5	75-125			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1107 - EPA 200.7/3005A Digestion											
Matrix Spike (B9F1107-MS1)		Source: 0902751-01			Prepared: 06/12/09		Analyzed: 06/15/09				
Zinc	0.367	0.020	0.0044	mg/L	0.399	<0.020	90.2	75-125			
Matrix Spike Dup (B9F1107-MSD1)											
Source: 0902751-01		Prepared: 06/12/09		Analyzed: 06/15/09							
Arsenic	0.374	0.010	0.0020	mg/L	0.399	<0.010	93.8	75-125	7.39	20	
Cadmium	0.381	0.0010	0.000099	mg/L	0.399	<0.0010	95.6	75-125	7.12	20	
Chromium	0.381	0.010	0.00024	mg/L	0.399	<0.010	95.2	75-125	7.29	20	
Copper	0.372	0.020	0.0014	mg/L	0.399	<0.020	93.3	75-125	7.59	20	
Lead	0.362	0.0030	0.00068	mg/L	0.399	<0.0030	90.8	75-125	2.37	20	
Nickel	0.384	0.0050	0.00028	mg/L	0.399	<0.0050	95.6	75-125	7.44	20	
Selenium	0.375	0.020	0.0022	mg/L	0.399	<0.020	94.0	75-125	7.70	20	
Silver	0.0386	0.0050	0.00018	mg/L	0.0399	<0.0050	96.6	75-125	7.67	20	
Zinc	0.412	0.020	0.0044	mg/L	0.399	<0.020	102	75-125	11.6	20	
Batch B9F1112 - EPA 245.1/7470A Digestion											
Blank (B9F1112-BLK1)		Prepared: 06/11/09			Analyzed: 06/15/09						
Mercury	< 0.00020	0.00020	0.000031	mg/L							
LCS (B9F1112-BS1)											
Source: 0902626-01		Prepared: 06/11/09		Analyzed: 06/15/09							
Mercury	0.00209	0.00020	0.000031	mg/L	0.00200		104	80-120			
LCS Dup (B9F1112-BSD1)											
Source: 0902626-01		Prepared: 06/11/09		Analyzed: 06/15/09							
Mercury	0.00206	0.00020	0.000031	mg/L	0.00200		103	80-120	1.45	20	
Matrix Spike (B9F1112-MS1)											
Source: 0902626-01		Prepared: 06/11/09		Analyzed: 06/15/09							
Mercury	0.00178	0.00020	0.000031	mg/L	0.00200	<0.00020	89.0	75-125			
Matrix Spike Dup (B9F1112-MSD1)											
Source: 0902626-01		Prepared: 06/11/09		Analyzed: 06/15/09							
Mercury	0.00206	0.00020	0.000031	mg/L	0.00200	<0.00020	103	75-125	14.6	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F2215 - EPA 200.8 Digestion											
Blank (B9F2215-BLK1)											
											Prepared: 06/22/09 Analyzed: 06/23/09
Antimony	< 0.50	0.50	0.046	ug/L							
Beryllium	< 0.50	0.50	0.027	ug/L							
Thallium	< 0.50	0.50	0.0081	ug/L							
LCS (B9F2215-BS1)											
											Prepared: 06/22/09 Analyzed: 06/23/09
Antimony	18.5	0.50	0.046	ug/L	20.0		92.6	80-120			
Beryllium	21.3	0.50	0.027	ug/L	20.0		106	80-120			
Thallium	18.0	0.50	0.0081	ug/L	20.0		89.9	80-120			
LCS Dup (B9F2215-BSD1)											
											Prepared: 06/22/09 Analyzed: 06/23/09
Antimony	18.3	0.50	0.046	ug/L	20.0		91.7	80-120	0.927	20	
Beryllium	22.1	0.50	0.027	ug/L	20.0		110	80-120	3.63	20	
Thallium	18.6	0.50	0.0081	ug/L	20.0		92.8	80-120	3.17	20	
Matrix Spike (B9F2215-MS1)											
											Source: 0902751-01 Prepared: 06/22/09 Analyzed: 06/23/09
Antimony	19.7	0.50	0.046	ug/L	20.0	<0.50	98.4	75-125			
Beryllium	6.90	0.50	0.027	ug/L	20.0	<0.50	34.5	75-125			M2
Thallium	18.7	0.50	0.0081	ug/L	20.0	<0.50	93.3	75-125			
Matrix Spike Dup (B9F2215-MSD1)											
											Source: 0902751-01 Prepared: 06/22/09 Analyzed: 06/23/09
Antimony	19.9	0.50	0.046	ug/L	20.0	<0.50	99.3	75-125	0.937	20	
Beryllium	7.28	0.50	0.027	ug/L	20.0	<0.50	36.4	75-125	5.35	20	M2
Thallium	19.5	0.50	0.0081	ug/L	20.0	<0.50	97.2	75-125	4.05	20	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902779
 Date Reported: 07/28/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1111 - EPA 7471A											
Blank (B9F1111-BLK1) Prepared: 06/11/09 Analyzed: 06/15/09											
Mercury	< 0.10	0.10	0.0031	mg/kg wet							
LCS (B9F1111-BS1) Prepared: 06/11/09 Analyzed: 06/15/09											
Mercury	0.205	0.10	0.0031	mg/kg wet	0.200		102	80-120			
LCS Dup (B9F1111-BSD1) Prepared: 06/11/09 Analyzed: 06/15/09											
Mercury	0.203	0.10	0.0031	mg/kg wet	0.200		102	80-120	0.980	20	
Matrix Spike (B9F1111-MS1) Source: 0902742-01 Prepared: 06/11/09 Analyzed: 06/15/09											
Mercury	0.276	0.12	0.0037	mg/kg dry	0.238	<0.12	106	75-125			
Matrix Spike Dup (B9F1111-MSD1) Source: 0902742-01 Prepared: 06/11/09 Analyzed: 06/15/09											
Mercury	0.282	0.12	0.0037	mg/kg dry	0.238	<0.12	108	75-125	2.13	20	
Batch B9F1513 - EPA 3050B											
Blank (B9F1513-BLK1) Prepared: 06/15/09 Analyzed: 06/16/09											
Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							
LCS (B9F1513-BS1) Prepared & Analyzed: 06/15/09											
Antimony	34.9	0.50	0.0055	mg/kg wet	39.9		87.5	80-120			
Arsenic	36.6	0.50	0.10	mg/kg wet	39.9		91.7	80-120			
Beryllium	3.75	0.25	0.011	mg/kg wet	3.99		93.9	80-120			
Cadmium	38.2	0.25	0.025	mg/kg wet	39.9		95.7	80-120			
Chromium	38.1	0.50	0.012	mg/kg wet	39.9		95.6	80-120			
Copper	36.3	1.0	0.070	mg/kg wet	39.9		90.9	80-120			
Lead	37.9	1.0	0.034	mg/kg wet	39.9		95.0	80-120			
Nickel	37.6	0.50	0.014	mg/kg wet	39.9		94.2	80-120			
Selenium	36.6	1.0	0.11	mg/kg wet	39.9		91.7	80-120			
Silver	3.78	0.25	0.0090	mg/kg wet	3.99		94.7	80-120			
Thallium	38.0	2.0	0.13	mg/kg wet	39.9		95.3	80-120			
Zinc	37.7	1.0	0.22	mg/kg wet	39.9		94.5	80-120			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1513 - EPA 3050B

LCS Dup (B9F1513-BSD1)

Prepared & Analyzed: 06/15/09

Antimony	36.2	0.50	0.0055	mg/kg wet	39.9		90.7	80-120	3.57	20	
Arsenic	37.4	0.50	0.10	mg/kg wet	39.9		93.6	80-120	2.11	20	
Beryllium	3.81	0.25	0.011	mg/kg wet	3.99		95.6	80-120	1.81	20	
Cadmium	38.9	0.25	0.025	mg/kg wet	39.9		97.5	80-120	1.87	20	
Chromium	38.5	0.50	0.012	mg/kg wet	39.9		96.6	80-120	1.04	20	
Copper	37.0	1.0	0.070	mg/kg wet	39.9		92.7	80-120	2.05	20	
Lead	38.6	1.0	0.034	mg/kg wet	39.9		96.8	80-120	1.83	20	
Nickel	38.2	0.50	0.014	mg/kg wet	39.9		95.8	80-120	1.67	20	
Selenium	37.4	1.0	0.11	mg/kg wet	39.9		93.8	80-120	2.18	20	
Silver	3.83	0.25	0.0090	mg/kg wet	3.99		96.0	80-120	1.39	20	
Thallium	38.8	2.0	0.13	mg/kg wet	39.9		97.2	80-120	2.05	20	
Zinc	38.3	1.0	0.22	mg/kg wet	39.9		96.0	80-120	1.54	20	

Matrix Spike (B9F1513-MS1)

Source: 0902742-01

Prepared & Analyzed: 06/15/09

Antimony	38.0	0.60	0.0065	mg/kg dry	47.5	<0.60	79.6	75-125			
Arsenic	48.9	0.60	0.12	mg/kg dry	47.5	7.19	87.9	75-125			
Beryllium	4.78	0.30	0.013	mg/kg dry	4.75	0.512	89.9	75-125			
Cadmium	42.0	0.30	0.030	mg/kg dry	47.5	0.522	87.3	75-125			
Chromium	62.4	0.60	0.014	mg/kg dry	47.5	19.5	90.2	75-125			
Copper	55.0	1.2	0.083	mg/kg dry	47.5	13.1	88.3	75-125			
Lead	54.0	1.2	0.040	mg/kg dry	47.5	13.3	85.7	75-125			
Nickel	56.1	0.60	0.017	mg/kg dry	47.5	14.9	86.9	75-125			
Selenium	41.1	1.2	0.13	mg/kg dry	47.5	<1.2	86.4	75-125			
Silver	4.20	0.30	0.011	mg/kg dry	4.75	<0.30	88.4	75-125			
Thallium	38.9	2.4	0.15	mg/kg dry	47.5	<2.4	82.0	75-125			
Zinc	108	1.2	0.26	mg/kg dry	47.5	69.9	80.0	75-125			

Matrix Spike Dup (B9F1513-MSD1)

Source: 0902742-01

Prepared & Analyzed: 06/15/09

Antimony	38.0	0.60	0.0065	mg/kg dry	47.5	<0.60	79.6	75-125	0.0632	20	
Arsenic	48.1	0.60	0.12	mg/kg dry	47.5	7.19	86.1	75-125	1.76	20	
Beryllium	4.69	0.30	0.013	mg/kg dry	4.75	0.512	87.9	75-125	2.06	20	
Cadmium	41.7	0.30	0.030	mg/kg dry	47.5	0.522	86.6	75-125	0.771	20	
Chromium	60.4	0.60	0.014	mg/kg dry	47.5	19.5	86.1	75-125	3.21	20	
Copper	54.1	1.2	0.083	mg/kg dry	47.5	13.1	86.3	75-125	1.69	20	
Lead	52.9	1.2	0.040	mg/kg dry	47.5	13.3	83.3	75-125	2.11	20	
Nickel	54.7	0.60	0.017	mg/kg dry	47.5	14.9	83.8	75-125	2.64	20	
Selenium	41.1	1.2	0.13	mg/kg dry	47.5	<1.2	86.6	75-125	0.141	20	
Silver	4.20	0.30	0.011	mg/kg dry	4.75	<0.30	88.3	75-125	0.0674	20	
Thallium	39.1	2.4	0.15	mg/kg dry	47.5	<2.4	82.3	75-125	0.414	20	
Zinc	108	1.2	0.26	mg/kg dry	47.5	69.9	81.0	75-125	0.450	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes	
Batch B9F1608 - General Preparation												
Duplicate (B9F1608-DUP1)							Source: 0902757-03					Prepared & Analyzed: 06/16/09
% Solids	78.0			%		78.0			0.00	20		
Duplicate (B9F1608-DUP2)							Source: 0902779-06					Prepared & Analyzed: 06/16/09
% Solids	79.0			%		81.0			2.50	20		
Duplicate (B9F1608-DUP3)							Source: 0902830-01					Prepared & Analyzed: 06/16/09
% Solids	90.0			%		90.0			0.00	20		

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1507 - EPA 3510C (Sep Funnel)

Blank (B9F1507-BLK1)

Prepared: 06/15/09 Analyzed: 06/16/09

4,4'-DDD	< 0.037	0.40	0.037	ug/L							
4,4'-DDE	< 0.037	0.40	0.037	ug/L							
4,4'-DDT	< 0.042	0.40	0.042	ug/L							
a-Chlordane	< 0.038	0.40	0.038	ug/L							
Aldrin	< 0.039	0.40	0.039	ug/L							
alpha-BHC	< 0.045	0.40	0.045	ug/L							
beta-BHC	< 0.053	0.40	0.053	ug/L							
delta-BHC	< 0.046	0.40	0.046	ug/L							
Dieldrin	< 0.037	0.40	0.037	ug/L							
Endosulfan I	< 0.040	0.40	0.040	ug/L							
Endosulfan II	< 0.041	0.40	0.041	ug/L							
Endosulfan sulfate	< 0.045	0.40	0.045	ug/L							
Endrin	< 0.042	0.40	0.042	ug/L							
Endrin aldehyde	< 0.051	0.40	0.051	ug/L							
Endrin ketone	< 0.042	0.40	0.042	ug/L							
gamma-BHC (Lindane)	< 0.047	0.40	0.047	ug/L							
gamma-Chlordane	< 0.037	0.40	0.037	ug/L							
Heptachlor	< 0.039	0.40	0.039	ug/L							
Heptachlor epoxide	< 0.041	0.40	0.041	ug/L							
Methoxychlor	< 0.045	0.40	0.045	ug/L							
Toxaphene	< 0.19	1.0	0.19	ug/L							
Surrogate: Decachlorobiphenyl	0.860			ug/L	1.00		86.0	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.770			ug/L	1.00		77.0	71.7-111			

LCS (B9F1507-BS1)

Prepared: 06/15/09 Analyzed: 06/16/09

4,4'-DDD	1.12	0.40	0.037	ug/L	1.25		89.6	70-130			
4,4'-DDE	1.10	0.40	0.037	ug/L	1.25		87.6	70-130			
4,4'-DDT	1.14	0.40	0.042	ug/L	1.25		91.2	70-130			
a-Chlordane	1.08	0.40	0.038	ug/L	1.25		86.8	70-130			
Aldrin	1.04	0.40	0.039	ug/L	1.25		83.2	70-130			
alpha-BHC	1.09	0.40	0.045	ug/L	1.25		87.2	70-130			
beta-BHC	1.05	0.40	0.053	ug/L	1.25		84.0	70-130			
delta-BHC	1.10	0.40	0.046	ug/L	1.25		88.4	70-130			
Dieldrin	1.08	0.40	0.037	ug/L	1.25		86.8	70-130			
Endosulfan I	1.09	0.40	0.040	ug/L	1.25		87.2	70-130			
Endosulfan II	1.10	0.40	0.041	ug/L	1.25		87.6	70-130			
Endosulfan sulfate	1.10	0.40	0.045	ug/L	1.25		87.6	70-130			
Endrin	1.12	0.40	0.042	ug/L	1.25		89.2	70-130			
Endrin aldehyde	1.14	0.40	0.051	ug/L	1.25		91.6	70-130			
Endrin ketone	1.10	0.40	0.042	ug/L	1.25		88.0	70-130			

Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Project: 23/19-0B05.07
Project Number: 23/19-0B05.07SOC350
Project Manager: Ms. Kelly Neppi

Work Order #: 0902779
Date Reported: 07/28/09

PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1507 - EPA 3510C (Sep Funnel)

LCS (B9F1507-BS1)

Prepared: 06/15/09 Analyzed: 06/16/09

gamma-BHC (Lindane)	1.10	0.40	0.047	ug/L	1.25		88.0	70-130			
gamma-Chlordane	1.06	0.40	0.037	ug/L	1.25		85.2	70-130			
Heptachlor	1.06	0.40	0.039	ug/L	1.25		85.2	70-130			
Heptachlor epoxide	1.09	0.40	0.041	ug/L	1.25		87.2	70-130			
Methoxychlor	1.15	0.40	0.045	ug/L	1.25		92.0	70-130			
Surrogate: Decachlorobiphenyl	0.920			ug/L	1.00		92.0	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.855			ug/L	1.00		85.5	71.7-111			

LCS Dup (B9F1507-BSD1)

Prepared: 06/15/09 Analyzed: 06/17/09

Q9, QM-10

4,4'-DDD	1.16	0.40	0.037	ug/L	1.25		92.4	70-130	3.08	20	
4,4'-DDE	1.15	0.40	0.037	ug/L	1.25		92.0	70-130	4.90	20	
4,4'-DDT	1.22	0.40	0.042	ug/L	1.25		97.2	70-130	6.37	20	
a-Chlordane	1.15	0.40	0.038	ug/L	1.25		92.0	70-130	5.82	20	
Aldrin	1.11	0.40	0.039	ug/L	1.25		88.8	70-130	6.51	20	
alpha-BHC	1.17	0.40	0.045	ug/L	1.25		93.6	70-130	7.08	20	
beta-BHC	1.12	0.40	0.053	ug/L	1.25		89.6	70-130	6.45	20	
delta-BHC	1.18	0.40	0.046	ug/L	1.25		94.4	70-130	6.56	20	
Dieldrin	1.15	0.40	0.037	ug/L	1.25		92.0	70-130	5.82	20	
Endosulfan I	1.15	0.40	0.040	ug/L	1.25		92.0	70-130	5.36	20	
Endosulfan II	1.14	0.40	0.041	ug/L	1.25		91.2	70-130	4.03	20	
Endosulfan sulfate	1.16	0.40	0.045	ug/L	1.25		92.4	70-130	5.33	20	
Endrin	1.19	0.40	0.042	ug/L	1.25		95.2	70-130	6.51	20	
Endrin aldehyde	1.18	0.40	0.051	ug/L	1.25		94.4	70-130	3.01	20	
Endrin ketone	1.14	0.40	0.042	ug/L	1.25		91.6	70-130	4.01	20	
gamma-BHC (Lindane)	1.18	0.40	0.047	ug/L	1.25		94.0	70-130	6.59	20	
gamma-Chlordane	1.12	0.40	0.037	ug/L	1.25		90.0	70-130	5.48	20	
Heptachlor	1.14	0.40	0.039	ug/L	1.25		91.6	70-130	7.24	20	
Heptachlor epoxide	1.16	0.40	0.041	ug/L	1.25		92.8	70-130	6.22	20	
Methoxychlor	1.22	0.40	0.045	ug/L	1.25		97.2	70-130	5.50	20	
Surrogate: Decachlorobiphenyl	0.920			ug/L	1.00		92.0	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.915			ug/L	1.00		91.5	71.7-111			

Matrix Spike (B9F1507-MS1)

Source: 0902812-04

Prepared: 06/15/09 Analyzed: 06/17/09

4,4'-DDD	1.13	0.37	0.034	ug/L	1.16	<0.37	98.0	70-130			
4,4'-DDE	1.15	0.37	0.034	ug/L	1.16	<0.37	99.6	70-130			
4,4'-DDT	1.21	0.37	0.039	ug/L	1.16	<0.37	105	70-130			
a-Chlordane	1.15	0.37	0.035	ug/L	1.16	<0.37	99.6	70-130			
Aldrin	1.15	0.37	0.036	ug/L	1.16	<0.37	99.6	70-130			
alpha-BHC	1.13	0.37	0.042	ug/L	1.16	<0.37	98.0	70-130			
beta-BHC	1.06	0.37	0.049	ug/L	1.16	<0.37	92.0	70-130			

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902779
 Date Reported: 07/28/09

PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1507 - EPA 3510C (Sep Funnel)											
Matrix Spike (B9F1507-MS1)		Source: 0902812-04				Prepared: 06/15/09		Analyzed: 06/17/09			
delta-BHC	1.13	0.37	0.043	ug/L	1.16	<0.37	98.0	70-130			
Dieldrin	1.14	0.37	0.034	ug/L	1.16	<0.37	98.8	70-130			
Endosulfan I	1.15	0.37	0.037	ug/L	1.16	<0.37	99.2	70-130			
Endosulfan II	1.13	0.37	0.038	ug/L	1.16	<0.37	97.6	70-130			
Endosulfan sulfate	1.13	0.37	0.042	ug/L	1.16	<0.37	98.0	70-130			
Endrin	1.19	0.37	0.039	ug/L	1.16	<0.37	102	70-130			
Endrin aldehyde	1.13	0.37	0.047	ug/L	1.16	<0.37	98.0	70-130			
Endrin ketone	1.12	0.37	0.039	ug/L	1.16	<0.37	96.4	70-130			
gamma-BHC (Lindane)	1.13	0.37	0.044	ug/L	1.16	<0.37	98.0	70-130			
gamma-Chlordane	1.12	0.37	0.034	ug/L	1.16	<0.37	97.2	70-130			
Heptachlor	1.16	0.37	0.036	ug/L	1.16	<0.37	100	70-130			
Heptachlor epoxide	1.15	0.37	0.038	ug/L	1.16	<0.37	99.6	70-130			
Methoxychlor	1.20	0.37	0.042	ug/L	1.16	<0.37	104	70-130			
Surrogate: Decachlorobiphenyl	0.894			ug/L	0.926		96.5	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.921			ug/L	0.926		99.5	71.7-111			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1505 - EPA 3510C (Sep Funnel)

Blank (B9F1505-BLK1)

Prepared & Analyzed: 06/15/09

1,2,4-Trichlorobenzene	< 0.19	10	0.19	ug/L							
1,2-Dichlorobenzene	< 0.23	10	0.23	ug/L							
1,2-Diphenylhydrazine as Azobenzene	< 0.24	10	0.24	ug/L							
1,3-Dichlorobenzene	< 0.21	10	0.21	ug/L							
1,4-Dichlorobenzene	< 0.22	10	0.22	ug/L							
2,3,4,6-Tetrachlorophenol	< 0.61	10	0.61	ug/L							
2,4,5-Trichlorophenol	< 0.80	10	0.80	ug/L							
2,4,6-Trichlorophenol	< 0.48	10	0.48	ug/L							
2,4-Dichlorophenol	< 0.47	10	0.47	ug/L							
2,4-Dimethylphenol	< 1.6	10	1.6	ug/L							
2,4-Dinitrophenol	< 1.0	10	1.0	ug/L							
2,4-Dinitrotoluene	< 0.33	10	0.33	ug/L							
2,6-Dichlorophenol	< 0.48	10	0.48	ug/L							
2,6-Dinitrotoluene	< 0.36	10	0.36	ug/L							
2-Chloronaphthalene	< 0.28	10	0.28	ug/L							
2-Chlorophenol	< 0.45	10	0.45	ug/L							
2-Methylnaphthalene	< 0.66	10	0.66	ug/L							
2-Methylphenol	< 0.63	10	0.63	ug/L							
2-Nitroaniline	< 0.72	10	0.72	ug/L							
2-Nitrophenol	< 0.90	10	0.90	ug/L							
3,3'-Dichlorobenzidine	< 7.3	25	7.3	ug/L							
3-Nitroaniline	< 1.2	10	1.2	ug/L							
4,6-Dinitro-2-methylphenol	< 0.65	10	0.65	ug/L							
4-Bromophenyl phenyl ether	< 0.17	10	0.17	ug/L							
4-Chloro-3-methylphenol	< 0.55	10	0.55	ug/L							
4-Chloroaniline	< 2.3	10	2.3	ug/L							
4-Chlorophenyl phenyl ether	< 0.25	10	0.25	ug/L							
4-Methylphenol	< 0.79	10	0.79	ug/L							
4-Nitroaniline	< 0.59	10	0.59	ug/L							
4-Nitrophenol	< 1.2	10	1.2	ug/L							
Acenaphthene	< 0.36	10	0.36	ug/L							
Acenaphthylene	< 0.25	10	0.25	ug/L							
Aniline	< 2.2	10	2.2	ug/L							
Anthracene	< 0.37	10	0.37	ug/L							
Benzidine	< 18	100	18	ug/L							
Benzo (a) anthracene	< 0.37	10	0.37	ug/L							
Benzo (a) pyrene	< 0.29	10	0.29	ug/L							
Benzo (b) fluoranthene	< 0.22	10	0.22	ug/L							
Benzo (g,h,i) perylene	< 0.26	10	0.26	ug/L							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1505 - EPA 3510C (Sep Funnel)

Blank (B9F1505-BLK1)

Prepared & Analyzed: 06/15/09

Benzo (k) fluoranthene	< 0.31	10	0.31	ug/L							
Benzoic acid	< 1.2	10	1.2	ug/L							
Benzyl alcohol	< 0.54	10	0.54	ug/L							
Bis(2-chloroethoxy)methane	< 0.18	10	0.18	ug/L							
Bis(2-chloroethyl)ether	< 0.17	10	0.17	ug/L							
Bis(2-chloroisopropyl)ether	< 0.19	10	0.19	ug/L							
Bis(2-ethylhexyl)phthalate	< 0.43	10	0.43	ug/L							
Butyl benzyl phthalate	< 0.37	10	0.37	ug/L							
Carbazole	< 0.26	10	0.26	ug/L							
Chrysene	< 0.27	10	0.27	ug/L							
Dibenz (a,h) anthracene	< 0.23	10	0.23	ug/L							
Dibenzofuran	< 0.39	10	0.39	ug/L							
Diethyl phthalate	< 0.23	10	0.23	ug/L							
Dimethyl phthalate	< 0.24	10	0.24	ug/L							
Di-n-butyl phthalate	< 0.28	10	0.28	ug/L							
Di-n-octyl phthalate	< 0.38	10	0.38	ug/L							
Fluoranthene	< 0.39	10	0.39	ug/L							
Fluorene	< 0.40	10	0.40	ug/L							
Hexachlorobenzene	< 0.20	10	0.20	ug/L							
Hexachlorobutadiene	< 0.26	10	0.26	ug/L							
Hexachlorocyclopentadiene	< 0.31	10	0.31	ug/L							
Hexachloroethane	< 0.31	10	0.31	ug/L							
Indeno (1,2,3-cd) pyrene	< 0.31	10	0.31	ug/L							
Isophorone	< 0.23	10	0.23	ug/L							
Naphthalene	< 0.37	10	0.37	ug/L							
Nitrobenzene	< 0.39	10	0.39	ug/L							
N-Nitrosodimethylamine	< 0.95	10	0.95	ug/L							
N-Nitrosodi-n-propylamine	< 0.21	10	0.21	ug/L							
N-Nitrosodiphenylamine	< 0.23	10	0.23	ug/L							
Pentachlorophenol	< 0.59	10	0.59	ug/L							
Phenanthrene	< 0.39	10	0.39	ug/L							
Phenol	< 0.57	10	0.57	ug/L							
Pyrene	< 0.47	10	0.47	ug/L							
Surrogate: 2,4,6-Tribromophenol	91.6			ug/L	100		91.6	48.5-114			
Surrogate: 2-Fluorobiphenyl	79.2			ug/L	100		79.2	41.7-98.4			
Surrogate: 2-Fluorophenol	68.4			ug/L	100		68.4	30-93.5			
Surrogate: Nitrobenzene-d5	83.2			ug/L	100		83.2	47.4-97.8			
Surrogate: Phenol-d6	61.5			ug/L	100		61.5	30-91.5			
Surrogate: Terphenyl-d14	80.7			ug/L	100		80.7	30-108			

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902779
 Date Reported: 07/28/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1505 - EPA 3510C (Sep Funnel)

LCS (B9F1505-BS1)

Prepared & Analyzed: 06/15/09

1,2,4-Trichlorobenzene	74.8	10	0.19	ug/L	100	74.8	48.2-88.3				
1,4-Dichlorobenzene	60.6	10	0.22	ug/L	100	60.6	42.8-82.2				
2,4-Dinitrotoluene	76.4	10	0.33	ug/L	100	76.4	64.6-98.9				
2-Chlorophenol	76.7	10	0.45	ug/L	100	76.7	56.5-88.1				
4-Chloro-3-methylphenol	80.5	10	0.55	ug/L	100	80.5	63.4-95.2				
4-Nitrophenol	72.3	10	1.2	ug/L	100	72.3	51.3-90.6				
Anthracene	85.4	10	0.37	ug/L	100	85.4	66.7-92.8				
Benzo (a) anthracene	89.8	10	0.37	ug/L	100	89.8	72.7-97.2				
Benzo (a) pyrene	91.0	10	0.29	ug/L	100	91.0	66.4-101				
Chrysene	88.8	10	0.27	ug/L	100	88.8	71.5-98.1				
Fluoranthene	86.4	10	0.39	ug/L	100	86.4	68.8-94				
Fluorene	84.4	10	0.40	ug/L	100	84.4	64.2-94.4				
N-Nitrosodi-n-propylamine	82.6	10	0.21	ug/L	100	82.6	63.6-92.8				
Pentachlorophenol	86.3	10	0.59	ug/L	100	86.3	60.2-101				
Phenanthrene	86.2	10	0.39	ug/L	100	86.2	68.1-94.8				
Phenol	56.8	10	0.57	ug/L	100	56.8	39.6-71				
<i>Surrogate: 2,4,6-Tribromophenol</i>	90.2			ug/L	100	90.2	48.5-114				
<i>Surrogate: 2-Fluorobiphenyl</i>	79.6			ug/L	100	79.6	41.7-98.4				
<i>Surrogate: 2-Fluorophenol</i>	69.1			ug/L	100	69.1	30-93.5				
<i>Surrogate: Nitrobenzene-d5</i>	83.0			ug/L	100	83.0	47.4-97.8				
<i>Surrogate: Phenol-d6</i>	63.9			ug/L	100	63.9	30-91.5				
<i>Surrogate: Terphenyl-d14</i>	83.1			ug/L	100	83.1	30-108				

Matrix Spike (B9F1505-MS1)

Source: 0902771-01

Prepared & Analyzed: 06/15/09

1,2,4-Trichlorobenzene	47.5	9.3	0.18	ug/L	92.6	<9.3	51.3	43.8-87.4			
1,4-Dichlorobenzene	39.7	9.3	0.20	ug/L	92.6	<9.3	42.9	43.7-78.7			M2
2,4-Dinitrotoluene	51.6	9.3	0.31	ug/L	92.6	<9.3	55.7	52.8-100			
2-Chlorophenol	53.8	9.3	0.42	ug/L	92.6	<9.3	58.1	30.1-95			
4-Chloro-3-methylphenol	54.5	9.3	0.51	ug/L	92.6	<9.3	58.8	44.8-98.7			
4-Nitrophenol	60.7	9.3	1.1	ug/L	92.6	<9.3	65.5	32.5-99.6			
Anthracene	41.5	9.3	0.34	ug/L	92.6	<9.3	44.8	44.8-97.6			
Benzo (a) anthracene	41.7	9.3	0.34	ug/L	92.6	<9.3	45.0	30-115			
Benzo (a) pyrene	32.6	9.3	0.27	ug/L	92.6	<9.3	35.2	30-110			
Chrysene	41.9	9.3	0.25	ug/L	92.6	<9.3	45.3	30-115			
Fluoranthene	50.3	9.3	0.36	ug/L	92.6	<9.3	54.3	37.4-103			
Fluorene	51.7	9.3	0.37	ug/L	92.6	<9.3	55.9	49.6-92.1			
N-Nitrosodi-n-propylamine	56.4	9.3	0.19	ug/L	92.6	<9.3	60.9	44.9-100			
Pentachlorophenol	54.8	9.3	0.55	ug/L	92.6	<9.3	59.1	31.2-123			
Phenanthrene	53.4	9.3	0.36	ug/L	92.6	<9.3	57.7	47-99.1			
Phenol	41.0	9.3	0.53	ug/L	92.6	<9.3	44.3	30-79.5			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1505 - EPA 3510C (Sep Funnel)

Matrix Spike (B9F1505-MS1)

Source: 0902771-01

Prepared & Analyzed: 06/15/09

Surrogate: 2,4,6-Tribromophenol	53.8			ug/L	92.6		58.1	48.5-114			
Surrogate: 2-Fluorobiphenyl	48.2			ug/L	92.6		52.0	41.7-98.4			
Surrogate: 2-Fluorophenol	47.3			ug/L	92.6		51.1	30-93.5			
Surrogate: Nitrobenzene-d5	55.9			ug/L	92.6		60.4	47.4-97.8			
Surrogate: Phenol-d6	44.9			ug/L	92.6		48.5	30-91.5			
Surrogate: Terphenyl-d14	33.9			ug/L	92.6		36.6	30-108			

Matrix Spike Dup (B9F1505-MSD1)

Source: 0902771-01

Prepared & Analyzed: 06/15/09

1,2,4-Trichlorobenzene	46.1	9.3	0.18	ug/L	92.6	<9.3	49.8	43.8-87.4	3.02	28.2	
1,4-Dichlorobenzene	39.5	9.3	0.20	ug/L	92.6	<9.3	42.7	43.7-78.7	0.412	25	M2
2,4-Dinitrotoluene	48.7	9.3	0.31	ug/L	92.6	<9.3	52.5	52.8-100	5.81	15	M2
2-Chlorophenol	50.0	9.3	0.42	ug/L	92.6	<9.3	54.0	30.1-95	7.16	27.5	
4-Chloro-3-methylphenol	50.6	9.3	0.51	ug/L	92.6	<9.3	54.6	44.8-98.7	7.41	27.6	
4-Nitrophenol	53.7	9.3	1.1	ug/L	92.6	<9.3	58.0	32.5-99.6	12.2	35	
Anthracene	34.6	9.3	0.34	ug/L	92.6	<9.3	37.3	44.8-97.6	18.3	21	M2
Benzo (a) anthracene	36.9	9.3	0.34	ug/L	92.6	<9.3	39.8	30-115	12.3	33.7	
Benzo (a) pyrene	27.7	9.3	0.27	ug/L	92.6	<9.3	29.9	30-110	16.2	33.8	M2
Chrysene	37.8	9.3	0.25	ug/L	92.6	<9.3	40.8	30-115	10.4	35.1	
Fluoranthene	45.8	9.3	0.36	ug/L	92.6	<9.3	49.5	37.4-103	9.21	29.1	
Fluorene	49.3	9.3	0.37	ug/L	92.6	<9.3	53.3	49.6-92.1	4.76	19.7	
N-Nitrosodi-n-propylamine	55.8	9.3	0.19	ug/L	92.6	<9.3	60.3	44.9-100	1.01	18.6	
Pentachlorophenol	50.0	9.3	0.55	ug/L	92.6	<9.3	54.0	31.2-123	9.08	32.2	
Phenanthrene	50.1	9.3	0.36	ug/L	92.6	<9.3	54.2	47-99.1	6.37	18.4	
Phenol	35.6	9.3	0.53	ug/L	92.6	<9.3	38.5	30-79.5	14.1	33.6	
Surrogate: 2,4,6-Tribromophenol	48.7			ug/L	92.6		52.6	48.5-114			
Surrogate: 2-Fluorobiphenyl	46.9			ug/L	92.6		50.7	41.7-98.4			
Surrogate: 2-Fluorophenol	42.7			ug/L	92.6		46.1	30-93.5			
Surrogate: Nitrobenzene-d5	56.6			ug/L	92.6		61.1	47.4-97.8			
Surrogate: Phenol-d6	38.9			ug/L	92.6		42.0	30-91.5			
Surrogate: Terphenyl-d14	30.8			ug/L	92.6		33.3	30-108			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1703 - EPA 3545 ASE Extraction

Blank (B9F1703-BLK1)

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3'-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902779
 Date Reported: 07/28/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1703 - EPA 3545 ASE Extraction

Blank (B9F1703-BLK1)

Prepared: 06/17/09 Analyzed: 06/18/09

Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	4.20			mg/kg wet	6.67		63.0	47.2-108			
Surrogate: 2-Fluorobiphenyl	3.98			mg/kg wet	6.67		59.7	53.2-85.1			
Surrogate: 2-Fluorophenol	3.94			mg/kg wet	6.67		59.1	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.01			mg/kg wet	6.67		60.1	49.1-86.9			
Surrogate: Phenol-d6	3.99			mg/kg wet	6.67		59.8	47.6-99.6			
Surrogate: Terphenyl-d14	4.32			mg/kg wet	6.67		64.8	43.6-112			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1703 - EPA 3545 ASE Extraction

LCS (B9F1703-BS1)

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	4.79	0.33	0.027	mg/kg wet	6.67		71.9	50.7-82.1			
1,4-Dichlorobenzene	4.12	0.33	0.024	mg/kg wet	6.67		61.8	44-77			
2,4-Dinitrotoluene	4.48	0.33	0.021	mg/kg wet	6.67		67.1	56.7-81.7			
2-Chlorophenol	4.61	0.67	0.038	mg/kg wet	6.67		69.1	52.3-88.2			
4-Chloro-3-methylphenol	4.75	0.67	0.040	mg/kg wet	6.67		71.3	53.4-87			
4-Nitrophenol	4.96	0.67	0.099	mg/kg wet	6.67		74.5	55.7-87.1			
Anthracene	5.05	0.33	0.025	mg/kg wet	6.67		75.8	65.3-92			
Benzo (a) anthracene	5.28	0.33	0.027	mg/kg wet	6.67		79.3	69-95.3			
Benzo (a) pyrene	5.25	0.33	0.027	mg/kg wet	6.67		78.7	68.5-98.2			
Chrysene	5.18	0.33	0.033	mg/kg wet	6.67		77.7	68.6-94.2			
Fluoranthene	5.10	0.33	0.024	mg/kg wet	6.67		76.5	64.3-94.6			
Fluorene	4.92	0.33	0.018	mg/kg wet	6.67		73.8	61.9-89.4			
N-Nitrosodi-n-propylamine	4.90	0.33	0.025	mg/kg wet	6.67		73.5	55.5-91.1			
Pentachlorophenol	4.84	0.67	0.096	mg/kg wet	6.67		72.5	54.7-74.6			
Phenanthrene	5.04	0.33	0.019	mg/kg wet	6.67		75.7	64.3-90.9			
Phenol	4.46	0.67	0.057	mg/kg wet	6.67		66.9	49.7-85.4			
<i>Surrogate: 2,4,6-Tribromophenol</i>	5.07			mg/kg wet	6.67		76.1	47.2-108			
<i>Surrogate: 2-Fluorobiphenyl</i>	4.65			mg/kg wet	6.67		69.7	53.2-85.1			
<i>Surrogate: 2-Fluorophenol</i>	4.63			mg/kg wet	6.67		69.5	48.5-90.1			
<i>Surrogate: Nitrobenzene-d5</i>	4.80			mg/kg wet	6.67		72.0	49.1-86.9			
<i>Surrogate: Phenol-d6</i>	4.92			mg/kg wet	6.67		73.9	47.6-99.6			
<i>Surrogate: Terphenyl-d14</i>	4.65			mg/kg wet	6.67		69.7	43.6-112			

Matrix Spike (B9F1703-MS1)

Source: 0902796-07

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	5.01	0.35	0.029	mg/kg dry	7.09	<0.35	70.7	51-77.5			
1,4-Dichlorobenzene	4.32	0.35	0.026	mg/kg dry	7.09	<0.35	60.9	41.7-73.4			
2,4-Dinitrotoluene	4.69	0.35	0.022	mg/kg dry	7.09	<0.35	66.1	50-84.8			
2-Chlorophenol	4.93	0.71	0.040	mg/kg dry	7.09	<0.71	69.5	47.8-90.8			
4-Chloro-3-methylphenol	5.01	0.71	0.043	mg/kg dry	7.09	<0.71	70.6	48.4-95.1			
4-Nitrophenol	5.77	0.71	0.11	mg/kg dry	7.09	<0.71	81.3	44-105			
Anthracene	5.33	0.35	0.027	mg/kg dry	7.09	<0.35	74.2	60.2-97.3			
Benzo (a) anthracene	5.41	0.35	0.029	mg/kg dry	7.09	<0.35	74.4	59.8-102			
Benzo (a) pyrene	5.22	0.35	0.029	mg/kg dry	7.09	<0.35	72.0	57.2-105			
Chrysene	5.43	0.35	0.035	mg/kg dry	7.09	<0.35	74.5	59.2-102			
Fluoranthene	5.33	0.35	0.026	mg/kg dry	7.09	<0.35	70.5	50.4-108			
Fluorene	5.40	0.35	0.019	mg/kg dry	7.09	<0.35	76.1	57.8-94.4			
N-Nitrosodi-n-propylamine	5.22	0.35	0.027	mg/kg dry	7.09	<0.35	73.6	46.2-96.2			
Pentachlorophenol	5.23	0.71	0.10	mg/kg dry	7.09	<0.71	73.7	53.6-80.4			
Phenanthrene	5.31	0.35	0.020	mg/kg dry	7.09	0.420	68.9	58.4-97.5			
Phenol	4.79	0.71	0.061	mg/kg dry	7.09	<0.71	67.5	44-88.5			

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902779
 Date Reported: 07/28/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1703 - EPA 3545 ASE Extraction

Matrix Spike (B9F1703-MS1)

Source: 0902796-07

Prepared: 06/17/09 Analyzed: 06/18/09

Surrogate: 2,4,6-Tribromophenol	5.29			mg/kg dry	7.09		74.5	47.2-108			
Surrogate: 2-Fluorobiphenyl	5.12			mg/kg dry	7.09		72.3	53.2-85.1			
Surrogate: 2-Fluorophenol	4.98			mg/kg dry	7.09		70.3	48.5-90.1			
Surrogate: Nitrobenzene-d5	5.24			mg/kg dry	7.09		73.8	49.1-86.9			
Surrogate: Phenol-d6	5.33			mg/kg dry	7.09		75.1	47.6-99.6			
Surrogate: Terphenyl-d14	4.87			mg/kg dry	7.09		68.7	43.6-112			

Matrix Spike Dup (B9F1703-MSD1)

Source: 0902796-07

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	5.01	0.35	0.029	mg/kg dry	7.09	<0.35	70.6	51-77.5	0.0988	15.7	
1,4-Dichlorobenzene	4.35	0.35	0.026	mg/kg dry	7.09	<0.35	61.3	41.7-73.4	0.554	14.7	
2,4-Dinitrotoluene	4.75	0.35	0.022	mg/kg dry	7.09	<0.35	67.0	50-84.8	1.34	20.5	
2-Chlorophenol	4.95	0.71	0.040	mg/kg dry	7.09	<0.71	69.8	47.8-90.8	0.464	19.8	
4-Chloro-3-methylphenol	5.18	0.71	0.043	mg/kg dry	7.09	<0.71	73.0	48.4-95.1	3.35	18.7	
4-Nitrophenol	5.58	0.71	0.11	mg/kg dry	7.09	<0.71	78.6	44-105	3.35	30.9	
Anthracene	5.44	0.35	0.027	mg/kg dry	7.09	<0.35	75.8	60.2-97.3	2.11	15.1	
Benzo (a) anthracene	5.56	0.35	0.029	mg/kg dry	7.09	<0.35	76.5	59.8-102	2.69	19.6	
Benzo (a) pyrene	5.34	0.35	0.029	mg/kg dry	7.09	<0.35	73.7	57.2-105	2.24	19.4	
Chrysene	5.51	0.35	0.035	mg/kg dry	7.09	<0.35	75.6	59.2-102	1.46	19.6	
Fluoranthene	5.33	0.35	0.026	mg/kg dry	7.09	<0.35	70.6	50.4-108	0.0251	21	
Fluorene	5.37	0.35	0.019	mg/kg dry	7.09	<0.35	75.7	57.8-94.4	0.522	15.8	
N-Nitrosodi-n-propylamine	5.21	0.35	0.027	mg/kg dry	7.09	<0.35	73.5	46.2-96.2	0.0968	17.1	
Pentachlorophenol	5.39	0.71	0.10	mg/kg dry	7.09	<0.71	76.0	53.6-80.4	2.97	22.4	
Phenanthrene	5.46	0.35	0.020	mg/kg dry	7.09	0.420	71.1	58.4-97.5	2.89	14.3	
Phenol	4.80	0.71	0.061	mg/kg dry	7.09	<0.71	67.7	44-88.5	0.316	21.5	
Surrogate: 2,4,6-Tribromophenol	5.43			mg/kg dry	7.09		76.5	47.2-108			
Surrogate: 2-Fluorobiphenyl	5.17			mg/kg dry	7.09		72.8	53.2-85.1			
Surrogate: 2-Fluorophenol	5.00			mg/kg dry	7.09		70.5	48.5-90.1			
Surrogate: Nitrobenzene-d5	5.27			mg/kg dry	7.09		74.3	49.1-86.9			
Surrogate: Phenol-d6	5.34			mg/kg dry	7.09		75.2	47.6-99.6			
Surrogate: Terphenyl-d14	5.02			mg/kg dry	7.09		70.8	43.6-112			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1204 - Volatiles

Blank (B9F1204-BLK1)

Prepared & Analyzed: 06/12/09

1,1,1,2-Tetrachloroethane	< 0.28	1.0	0.28	ug/L							
1,1,1-Trichloroethane	< 0.17	1.0	0.17	ug/L							
1,1,2,2-Tetrachloroethane	< 0.13	1.0	0.13	ug/L							
1,1,2-Trichloroethane	< 0.19	1.0	0.19	ug/L							
1,1,2-Trichlorotrifluoroethane	< 0.28	1.0	0.28	ug/L							
1,1-Dichloroethane	< 0.11	1.0	0.11	ug/L							
1,1-Dichloroethene	< 0.12	1.0	0.12	ug/L							
1,1-Dichloropropene	< 0.15	1.0	0.15	ug/L							
1,2,3-Trichlorobenzene	< 0.47	5.0	0.47	ug/L							
1,2,3-Trichloropropane	< 0.24	2.5	0.24	ug/L							
1,2,4-Trichlorobenzene	< 0.32	5.0	0.32	ug/L							
1,2,4-Trimethylbenzene	< 0.17	1.0	0.17	ug/L							
1,2-Dibromo-3-chloropropane	< 0.60	5.0	0.60	ug/L							
1,2-Dibromoethane (EDB)	< 0.37	2.5	0.37	ug/L							
1,2-Dichlorobenzene	< 0.16	1.0	0.16	ug/L							
1,2-Dichloroethane	< 0.18	1.0	0.18	ug/L							
1,2-Dichloropropane	< 0.21	1.0	0.21	ug/L							
1,3,5-Trimethylbenzene	< 0.18	1.0	0.18	ug/L							
1,3-Dichlorobenzene	< 0.21	1.0	0.21	ug/L							
1,3-Dichloropropane	< 0.15	1.0	0.15	ug/L							
1,4-Dichlorobenzene	< 0.17	1.0	0.17	ug/L							
2,2-Dichloropropane	< 0.58	5.0	0.58	ug/L							
2-Butanone	< 0.67	20	0.67	ug/L							
2-Chlorotoluene	< 0.17	1.0	0.17	ug/L							
4-Chlorotoluene	< 0.14	1.0	0.14	ug/L							
Acetone	< 2.8	20	2.8	ug/L							
Allyl chloride	< 0.76	5.0	0.76	ug/L							
Benzene	< 0.093	1.0	0.093	ug/L							
Bromobenzene	< 0.17	1.0	0.17	ug/L							
Bromochloromethane	< 0.21	1.0	0.21	ug/L							
Bromodichloromethane	< 0.22	1.0	0.22	ug/L							
Bromoform	< 0.50	5.0	0.50	ug/L							
Bromomethane	< 0.95	5.0	0.95	ug/L							
Carbon tetrachloride	< 0.16	1.0	0.16	ug/L							
Chlorobenzene	< 0.15	1.0	0.15	ug/L							
Chloroethane	< 0.46	2.5	0.46	ug/L							
Chloroform	< 0.19	1.0	0.19	ug/L							
Chloromethane	< 0.37	2.5	0.37	ug/L							
cis-1,2-Dichloroethene	< 0.19	1.0	0.19	ug/L							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1204 - Volatiles

Blank (B9F1204-BLK1)

Prepared & Analyzed: 06/12/09

cis-1,3-Dichloropropene	< 0.16	1.0	0.16	ug/L							
Dibromochloromethane	< 0.50	2.5	0.50	ug/L							
Dibromomethane	< 0.30	2.5	0.30	ug/L							
Dichlorodifluoromethane	< 0.58	5.0	0.58	ug/L							
Dichlorofluoromethane	< 0.31	1.0	0.31	ug/L							
Ethyl ether	< 0.53	5.0	0.53	ug/L							
Ethylbenzene	< 0.21	1.0	0.21	ug/L							
Hexachlorobutadiene	< 0.76	10	0.76	ug/L							
Isopropylbenzene	< 0.17	1.0	0.17	ug/L							
m,p-Xylene	< 0.42	2.0	0.42	ug/L							
Methyl isobutyl ketone	< 1.1	5.0	1.1	ug/L							
Methyl tert-butyl ether	< 0.13	1.0	0.13	ug/L							
Methylene chloride	< 0.65	5.0	0.65	ug/L							
Naphthalene	< 0.40	5.0	0.40	ug/L							
n-Butylbenzene	< 0.32	2.5	0.32	ug/L							
n-Propylbenzene	< 0.13	1.0	0.13	ug/L							
o-Xylene	< 0.18	1.0	0.18	ug/L							
p-Isopropyltoluene	< 0.30	2.5	0.30	ug/L							
sec-Butylbenzene	< 0.22	1.0	0.22	ug/L							
Styrene	< 0.13	1.0	0.13	ug/L							
tert-Butylbenzene	< 0.19	1.0	0.19	ug/L							
Tetrachloroethene	< 0.20	1.0	0.20	ug/L							
Tetrahydrofuran	< 0.77	20	0.77	ug/L							
Toluene	< 0.21	1.0	0.21	ug/L							
trans-1,2-Dichloroethene	< 0.29	1.0	0.29	ug/L							
trans-1,3-Dichloropropene	< 0.17	1.0	0.17	ug/L							
Trichloroethene	< 0.20	1.0	0.20	ug/L							
Trichlorofluoromethane	< 0.17	1.0	0.17	ug/L							
Vinyl chloride	< 0.087	1.0	0.087	ug/L							
Surrogate: 4-Bromofluorobenzene	61.6			ug/L	55.0		112	76.4-125			
Surrogate: Dibromofluoromethane	59.1			ug/L	55.0		107	80-120			
Surrogate: Toluene-d8	57.1			ug/L	55.0		104	80-125			

LCS (B9F1204-BS1)

Prepared & Analyzed: 06/12/09

1,1,2,2-Tetrachloroethane	49.9	1.0	0.13	ug/L	50.0		99.7	80-120			
1,1-Dichloroethane	53.4	1.0	0.11	ug/L	50.0		107	76.6-120			
1,1-Dichloroethene	55.9	1.0	0.12	ug/L	50.0		112	75.9-120			
1,3,5-Trimethylbenzene	52.6	1.0	0.18	ug/L	50.0		105	80-120			
1,4-Dichlorobenzene	48.0	1.0	0.17	ug/L	50.0		96.1	75-125			
2-Chlorotoluene	51.6	1.0	0.17	ug/L	50.0		103	80-120			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1204 - Volatiles

LCS (B9F1204-BS1)

Prepared & Analyzed: 06/12/09

Benzene	50.0	1.0	0.093	ug/L	50.0		100	80-120			
Bromoform	46.9	5.0	0.50	ug/L	50.0		93.9	75.4-125			
Chlorobenzene	49.0	1.0	0.15	ug/L	50.0		98.0	80-120			
Chloroform	52.2	1.0	0.19	ug/L	50.0		104	80-120			
Ethylbenzene	50.8	1.0	0.21	ug/L	50.0		102	80-120			
n-Butylbenzene	54.1	2.5	0.32	ug/L	50.0		108	70.6-125			
n-Propylbenzene	52.5	1.0	0.13	ug/L	50.0		105	79.7-120			
Toluene	49.8	1.0	0.21	ug/L	50.0		99.7	80-120			
Trichloroethene	52.0	1.0	0.20	ug/L	50.0		104	80-120			
Vinyl chloride	59.4	1.0	0.087	ug/L	50.0		119	75-129			
Surrogate: 4-Bromofluorobenzene	58.8			ug/L	55.0		107	76.4-125			
Surrogate: Dibromofluoromethane	56.9			ug/L	55.0		104	80-120			
Surrogate: Toluene-d8	54.8			ug/L	55.0		99.6	80-125			

Matrix Spike (B9F1204-MS1)

Source: 0902779-01

Prepared & Analyzed: 06/12/09

1,1,2,2-Tetrachloroethane	52.9	1.0	0.13	ug/L	50.0	<1.0	106	80-120			
1,1-Dichloroethane	55.7	1.0	0.11	ug/L	50.0	<1.0	111	78-120			
1,1-Dichloroethene	58.9	1.0	0.12	ug/L	50.0	<1.0	118	75-120			
1,3,5-Trimethylbenzene	50.4	1.0	0.18	ug/L	50.0	<1.0	101	75.8-120			
1,4-Dichlorobenzene	48.3	1.0	0.17	ug/L	50.0	<1.0	96.6	75-125			
2-Chlorotoluene	50.8	1.0	0.17	ug/L	50.0	<1.0	102	79.1-120			
Benzene	51.1	1.0	0.093	ug/L	50.0	<1.0	102	80-120			
Bromoform	46.8	5.0	0.50	ug/L	50.0	<5.0	93.5	80-123			
Chlorobenzene	50.4	1.0	0.15	ug/L	50.0	<1.0	101	80-120			
Chloroform	53.1	1.0	0.19	ug/L	50.0	<1.0	106	80-120			
Ethylbenzene	49.8	1.0	0.21	ug/L	50.0	<1.0	99.5	80-120			
n-Butylbenzene	53.8	2.5	0.32	ug/L	50.0	<2.5	108	74.2-125			
n-Propylbenzene	51.0	1.0	0.13	ug/L	50.0	<1.0	102	76.3-120			
Toluene	50.7	1.0	0.21	ug/L	50.0	<1.0	101	80-120			
Trichloroethene	48.3	1.0	0.20	ug/L	50.0	<1.0	96.5	80-120			
Vinyl chloride	66.8	1.0	0.087	ug/L	50.0	<1.0	134	70.3-126			M1
Surrogate: 4-Bromofluorobenzene	58.8			ug/L	55.0		107	76.4-125			
Surrogate: Dibromofluoromethane	55.4			ug/L	55.0		101	80-120			
Surrogate: Toluene-d8	55.4			ug/L	55.0		101	80-125			

Matrix Spike Dup (B9F1204-MSD1)

Source: 0902779-01

Prepared & Analyzed: 06/12/09

1,1,2,2-Tetrachloroethane	54.5	1.0	0.13	ug/L	50.0	<1.0	109	80-120	2.96	20	
1,1-Dichloroethane	55.5	1.0	0.11	ug/L	50.0	<1.0	111	78-120	0.229	20	
1,1-Dichloroethene	57.8	1.0	0.12	ug/L	50.0	<1.0	116	75-120	1.91	20	
1,3,5-Trimethylbenzene	51.8	1.0	0.18	ug/L	50.0	<1.0	104	75.8-120	2.81	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1204 - Volatiles											
Matrix Spike Dup (B9F1204-MSD1)			Source: 0902779-01			Prepared & Analyzed: 06/12/09					
1,4-Dichlorobenzene	49.8	1.0	0.17	ug/L	50.0	<1.0	99.5	75-125	2.94	20	
2-Chlorotoluene	51.7	1.0	0.17	ug/L	50.0	<1.0	103	79.1-120	1.90	20	
Benzene	52.3	1.0	0.093	ug/L	50.0	<1.0	105	80-120	2.39	20	
Bromoform	45.3	5.0	0.50	ug/L	50.0	<5.0	90.5	80-123	3.28	20	
Chlorobenzene	47.8	1.0	0.15	ug/L	50.0	<1.0	95.6	80-120	5.32	20	
Chloroform	52.9	1.0	0.19	ug/L	50.0	<1.0	106	80-120	0.360	20	
Ethylbenzene	49.1	1.0	0.21	ug/L	50.0	<1.0	98.1	80-120	1.43	20	
n-Butylbenzene	53.8	2.5	0.32	ug/L	50.0	<2.5	108	74.2-125	0.0195	20	
n-Propylbenzene	52.0	1.0	0.13	ug/L	50.0	<1.0	104	76.3-120	1.87	20	
Toluene	51.4	1.0	0.21	ug/L	50.0	<1.0	103	80-120	1.42	20	
Trichloroethene	49.5	1.0	0.20	ug/L	50.0	<1.0	98.9	80-120	2.44	20	
Vinyl chloride	64.0	1.0	0.087	ug/L	50.0	<1.0	128	70.3-126	4.38	20	M1
Surrogate: 4-Bromofluorobenzene	58.8			ug/L	55.0		107	76.4-125			
Surrogate: Dibromofluoromethane	55.2			ug/L	55.0		100	80-120			
Surrogate: Toluene-d8	55.2			ug/L	55.0		100	80-125			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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Analytical Results - Quality Control
Davy Laboratories, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch N/A - No Prep											
BLK (0902779-BLK)	Source: -					Prepared: Analyzed: 06/17/09					
Nitrate/Nitrite as N	<0.06	0.06	--	mg/L		<0.06		-			
BLK (0902779-BLK1)	Source: -					Prepared: Analyzed: 06/16/09					
Total Kjeldahl as N	<0.55	0.55	--	mg/L		<0.55		-			
BLK (0902779-BLK2)	Source: -					Prepared: Analyzed: 06/23/09					
Total Kjeldahl as N	<0.55	0.55	--	mg/L		<0.55		-			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902779 Date Reported: 07/28/09
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Notes and Definitions

- QM-10 LCS/LCSD were analyzed in place of MS/MSD.
- Q9 Insufficient sample received to meet method QC requirements.
- M2 Matrix spike recovery was low, the associated blank spike recovery was acceptable.
- M1 Matrix spike recovery was high, the associated blank spike recovery was acceptable.
- J Parameter was present between the MDL and RL and should be considered an estimated value
- F-01 The sample was filtered in the laboratory prior to analysis.
- < Less than value listed
- dry Sample results reported on a dry weight basis
- NA Not applicable. The %RPD is not calculated from values less than the reporting limit.
- MDL Method Detection Limit
- RL Reporting Limit
- RPD Relative Percent Difference
- LCS Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
- MS Matrix Spike = Laboratory Fortified Matrix (LFM)

0902779
Chain of Custody

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

BARR

Project Number
23-19-035-350
07SOC
NO 17704

Sample Identification	Collection		Matrix			
	Date	Time	Water	Soil	Other	Grab
1.SOC3-GP3	6/1/09	0900	X	X	X	X
2.SOC3-GP4	6/1/09	0930	X	X	X	X
3.GP-DUP-3	6/1/09	1035	X	X	X	X
4.SOC3-GP2	6/1/09	1030	X	X	X	X
5.SOC1-GP3.0.4	6/1/09	1200	X	X	X	X
6.SOC1-DUP-4	6/1/09	1205	X	X	X	X
7.SOC1-GP3	6/1/09	1400	X	X	X	X

01
02
03
04
05
06
07

Number of Containers/Preservative																						
Volatile Organic (Unpres.)	Volatile Organic (Pres.)	Semivolatile Organic	Total Metals (HNO ₃)	Dissolved Metals (HNO ₃)	General (Unpreserved)	Cyanide (NaOH, Asc. Acid)	Nutrients (H ₂ SO ₄)	Oil and Grease (H ₂ SO ₄)	TOC (H ₂ SO ₄)	Sulfide (Zn Acetate)	Dioxin	Whitpak	Total Phenol (H ₂ SO ₄)	Methane	(HCL)/DRO, IL Glass	Lugols, Glass, Amber	Formalin, Glass	Nitrogen	PPL Metals	OC Pesticides	Total No. Of Containers	
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Remarks/Analysis Required: 4 Nitrogen - Methods 1050M + 351.2 3 Metals - Method 6010B, except Be, Mn, Th by 6020 7 Pesticides - Method 8081A 2 VOCs - Method 8200B 1 6																						

Project Manager: SME
Project Contact: Kelly Neppi
Laboratory: Legend

Relinquished By: <i>[Signature]</i>	Date: 6/1/09	Time: 0800	Received by: <i>[Signature]</i>	Date: 6/1/09	Time: 11:37
Relinquished Via: <input type="checkbox"/> Air Freight <input type="checkbox"/> Fed. Exp. <input type="checkbox"/> Sampler Shipped VIA <input type="checkbox"/> Other	Air Bill Number:				

Sampled By: ESC
Remarks: On ice

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

4.5'



88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

July 28, 2009

REVISION

Ms. Kelly Neppi
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0902791
RE: 23/19-0B05.07

This is a revised report. The details of the revision are listed in the case narrative on the following page.

Enclosed are the results of analyses for samples received by the laboratory on 06/10/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of the original report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Erica Nastrom
Client Manager I
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Barb Rutten
Report Reviewer
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Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC350 Project Manager: Ms. Kelly Neppel	Work Order #: 0902791 Date Reported: 07/28/09
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC7-TT7-0.5-1'	0902791-01	Soil	06/08/09 08:30	06/10/09 11:37
SOC7-TT5-0.5-1'	0902791-02	Soil	06/08/09 12:30	06/10/09 11:37

Shipping Container Information

Default Cooler

Temperature (°C):

Received on ice: Yes
 Received on melt water: No
 Custody seals: No

Temperature blank was not present
 Ambient: No

Received on ice pack: No
 Acceptable (IH/ISO only): No

Case Narrative:

This report was revised on 7/28/09 to correct the ICP lead results for samples SOC7-TT7-0.5'-1' and SOC7-TT5-0.5'-1'.

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05S0C350
 Project Manager: Ms. Kelly Neppel

Work Order #: 0902791
 Date Reported: 07/28/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC7-TT7-0.5-1' (0902791-01) Soil Sampled: 06/08/09 08:30 Received: 06/10/09 11:37										
Antimony	<0.63	0.63	0.0070	mg/kg dry	1	B9F1513	06/15/09	06/16/09	EPA 6010B	
Arsenic	8.2	0.63	0.13	mg/kg dry	1	"	"	"	"	
Beryllium	0.53	0.32	0.014	mg/kg dry	1	"	"	"	"	
Cadmium	0.36	0.32	0.032	mg/kg dry	1	"	"	"	"	
Chromium	20	0.63	0.015	mg/kg dry	1	"	"	"	"	
Copper	12	1.3	0.089	mg/kg dry	1	"	"	"	"	
Lead	15	1.3	0.043	mg/kg dry	1	"	"	"	"	
Mercury	<0.13	0.13	0.0039	mg/kg dry	1	B9F1512	06/15/09	06/16/09	EPA 7471A	
Nickel	17	0.63	0.018	mg/kg dry	1	B9F1513	06/15/09	06/16/09	EPA 6010B	
Selenium	<1.3	1.3	0.14	mg/kg dry	1	"	"	"	"	
Silver	<0.32	0.32	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.5	2.5	0.16	mg/kg dry	1	"	"	"	"	
Zinc	53	1.3	0.28	mg/kg dry	1	"	"	"	"	

SOC7-TT5-0.5-1' (0902791-02) Soil Sampled: 06/08/09 12:30 Received: 06/10/09 11:37										
Antimony	<0.63	0.63	0.0070	mg/kg dry	1	B9F1513	06/15/09	06/16/09	EPA 6010B	
Arsenic	6.9	0.63	0.13	mg/kg dry	1	"	"	"	"	
Beryllium	0.42	0.32	0.014	mg/kg dry	1	"	"	"	"	
Cadmium	0.34	0.32	0.032	mg/kg dry	1	"	"	"	"	
Chromium	17	0.63	0.015	mg/kg dry	1	"	"	"	"	
Copper	10	1.3	0.089	mg/kg dry	1	"	"	"	"	
Lead	14	1.3	0.043	mg/kg dry	1	"	"	"	"	
Mercury	<0.13	0.13	0.0039	mg/kg dry	1	B9F1512	06/15/09	06/16/09	EPA 7471A	
Nickel	14	0.63	0.018	mg/kg dry	1	B9F1513	06/15/09	06/16/09	EPA 6010B	
Selenium	<1.3	1.3	0.14	mg/kg dry	1	"	"	"	"	
Silver	<0.32	0.32	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.5	2.5	0.16	mg/kg dry	1	"	"	"	"	
Zinc	50	1.3	0.28	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC350 Project Manager: Ms. Kelly Neppel	Work Order #: 0902791 Date Reported: 07/28/09
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PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC7-TT7-0.5-1' (0902791-01) Soil Sampled: 06/08/09 08:30 Received: 06/10/09 11:37										
% Solids	79			%	1	B9F1518	06/15/09	06/16/09	% calculation	
SOC7-TT5-0.5-1' (0902791-02) Soil Sampled: 06/08/09 12:30 Received: 06/10/09 11:37										
% Solids	79			%	1	B9F1518	06/15/09	06/16/09	% calculation	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902791
 Date Reported: 07/28/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC7-TT7-0.5-1' (0902791-01) Soil Sampled: 06/08/09 08:30 Received: 06/10/09 11:37

1,2,4-Trichlorobenzene	<0.034	0.42	0.034	mg/kg dry	1	B9F1703	06/17/09	06/19/09	EPA 8270C	
1,2-Dichlorobenzene	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.025	0.42	0.025	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.030	0.42	0.030	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.048	0.85	0.048	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.030	0.85	0.030	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.044	0.85	0.044	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.044	0.85	0.044	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.85	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.073	0.85	0.073	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.027	0.42	0.027	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.054	0.85	0.054	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.048	0.85	0.048	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.035	0.42	0.035	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.044	0.85	0.044	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.025	0.42	0.025	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.046	0.85	0.046	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.49	2.0	0.49	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.042	0.42	0.042	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.094	0.85	0.094	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.022	0.42	0.022	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.051	0.85	0.051	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.14	0.85	0.14	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.034	0.85	0.034	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.13	0.85	0.13	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.035	0.42	0.035	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.85	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
Benzidine	<0.91	3.2	0.91	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.034	0.42	0.034	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.034	0.42	0.034	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.043	0.42	0.043	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.038	0.42	0.038	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902791 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC7-TT7-0.5-1' (0902791-01) Soil Sampled: 06/08/09 08:30 Received: 06/10/09 11:37										
Benzo (k) fluoranthene	<0.039	0.42	0.039	mg/kg dry	1	B9F1703	06/17/09	06/19/09	EPA 8270C	
Benzoic acid	<0.073	0.42	0.073	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.85	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.027	0.42	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.030	0.42	0.030	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.028	0.42	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.025	0.42	0.025	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.027	0.42	0.027	mg/kg dry	1	"	"	"	"	
Carbazole	<0.028	0.42	0.028	mg/kg dry	1	"	"	"	"	
Chrysene	<0.042	0.42	0.042	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.043	0.42	0.043	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.019	0.42	0.019	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.023	0.42	0.023	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.047	0.42	0.047	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.030	0.42	0.030	mg/kg dry	1	"	"	"	"	
Fluorene	<0.023	0.42	0.023	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.020	0.42	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.042	0.42	0.042	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.052	0.42	0.052	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.035	0.42	0.035	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.041	0.42	0.041	mg/kg dry	1	"	"	"	"	
Isophorone	<0.022	0.42	0.022	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.037	0.42	0.037	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.038	0.42	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.041	0.42	0.041	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.023	0.42	0.023	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.85	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
Phenol	<0.072	0.85	0.072	mg/kg dry	1	"	"	"	"	
Pyrene	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	56.6			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	58.9			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	54.5			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	66.4			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	63.3			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	60.8			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902791 Date Reported: 07/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC7-TT5-0.5-1' (0902791-02) Soil Sampled: 06/08/09 12:30 Received: 06/10/09 11:37

1,2,4-Trichlorobenzene	<0.034	0.42	0.034	mg/kg dry	1	B9F1703	06/17/09	06/19/09	EPA 8270C	
1,2-Dichlorobenzene	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.025	0.42	0.025	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.030	0.42	0.030	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.048	0.85	0.048	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.030	0.85	0.030	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.044	0.85	0.044	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.044	0.85	0.044	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.85	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.073	0.85	0.073	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.027	0.42	0.027	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.054	0.85	0.054	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.048	0.85	0.048	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.035	0.42	0.035	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.044	0.85	0.044	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.025	0.42	0.025	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.046	0.85	0.046	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.49	2.0	0.49	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.042	0.42	0.042	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.094	0.85	0.094	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.022	0.42	0.022	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.051	0.85	0.051	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.14	0.85	0.14	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.034	0.85	0.034	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.13	0.85	0.13	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.035	0.42	0.035	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.85	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
Benzidine	<0.91	3.2	0.91	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.034	0.42	0.034	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.034	0.42	0.034	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.043	0.42	0.043	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.038	0.42	0.038	mg/kg dry	1	"	"	"	"	

Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Project: 23/19-0B05.07
Project Number: 23/19-0B05SOC350
Project Manager: Ms. Kelly Neppi

Work Order #: 0902791
Date Reported: 07/28/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC7-TT5-0.5-1' (0902791-02) Soil Sampled: 06/08/09 12:30 Received: 06/10/09 11:37										
Benzo (k) fluoranthene	<0.039	0.42	0.039	mg/kg dry	1	B9F1703	06/17/09	06/19/09	EPA 8270C	
Benzoic acid	<0.073	0.42	0.073	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.85	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.027	0.42	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.030	0.42	0.030	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.028	0.42	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.025	0.42	0.025	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.027	0.42	0.027	mg/kg dry	1	"	"	"	"	
Carbazole	<0.028	0.42	0.028	mg/kg dry	1	"	"	"	"	
Chrysene	<0.042	0.42	0.042	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.043	0.42	0.043	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.019	0.42	0.019	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.023	0.42	0.023	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.047	0.42	0.047	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.030	0.42	0.030	mg/kg dry	1	"	"	"	"	
Fluorene	<0.023	0.42	0.023	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.020	0.42	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.042	0.42	0.042	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.052	0.42	0.052	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.035	0.42	0.035	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.041	0.42	0.041	mg/kg dry	1	"	"	"	"	
Isophorone	<0.022	0.42	0.022	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.037	0.42	0.037	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.038	0.42	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.041	0.42	0.041	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.023	0.42	0.023	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.85	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
Phenol	<0.072	0.85	0.072	mg/kg dry	1	"	"	"	"	
Pyrene	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	59.8			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	53.8			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	57.8			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	64.3			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	64.1			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	58.0			43.6-112 %		"	"	"	"	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902791
 Date Reported: 07/28/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC7-TT7-0.5-1' (0902791-01) Soil Sampled: 06/08/09 08:30 Received: 06/10/09 11:37

1,1,1,2-Tetrachloroethane	<0.033	0.32	0.033	mg/kg dry	1	B9F1203	06/12/09	06/12/09	EPA 8260B	
1,1,1-Trichloroethane	<0.042	0.32	0.042	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.032	0.32	0.032	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.047	0.32	0.047	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.082	0.32	0.082	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.030	0.32	0.030	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.032	0.32	0.032	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.034	0.32	0.034	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.084	0.63	0.084	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.067	0.32	0.067	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.081	0.63	0.081	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.025	0.32	0.025	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.072	0.63	0.072	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.048	0.32	0.048	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.034	0.32	0.034	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.032	0.32	0.032	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.035	0.32	0.035	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.019	0.32	0.019	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.035	0.32	0.035	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.022	0.32	0.022	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.023	0.32	0.023	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.086	0.63	0.086	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.15	2.5	0.15	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.023	0.32	0.023	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.037	0.32	0.037	mg/kg dry	1	"	"	"	"	
Acetone	<0.41	2.5	0.41	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.085	0.63	0.085	mg/kg dry	1	"	"	"	"	
Benzene	<0.019	0.32	0.019	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.024	0.32	0.024	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.032	0.32	0.032	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.044	0.32	0.044	mg/kg dry	1	"	"	"	"	
Bromoform	<0.10	0.63	0.10	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.18	0.63	0.18	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.034	0.32	0.034	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.032	0.32	0.032	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.092	0.32	0.092	mg/kg dry	1	"	"	"	"	
Chloroform	<0.053	0.32	0.053	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.052	0.32	0.052	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.058	0.32	0.058	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902791 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC7-TT7-0.5-1' (0902791-01) Soil Sampled: 06/08/09 08:30 Received: 06/10/09 11:37										
cis-1,3-Dichloropropene	<0.029	0.32	0.029	mg/kg dry	1	B9F1203	06/12/09	06/12/09	EPA 8260B	
Dibromochloromethane	<0.041	0.32	0.041	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.058	0.32	0.058	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.10	0.63	0.10	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.056	0.32	0.056	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.061	0.63	0.061	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.028	0.32	0.028	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.16	1.3	0.16	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.029	0.32	0.029	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.11	0.63	0.11	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.12	0.63	0.12	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.022	0.32	0.022	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.22	1.3	0.22	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.082	0.63	0.082	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.041	0.32	0.041	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.018	0.32	0.018	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.039	0.32	0.039	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.038	0.32	0.038	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.013	0.32	0.013	mg/kg dry	1	"	"	"	"	
Styrene	<0.051	0.32	0.051	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.023	0.32	0.023	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.044	0.32	0.044	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.13	2.5	0.13	mg/kg dry	1	"	"	"	"	
Toluene	<0.035	0.32	0.035	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.028	0.32	0.028	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.044	0.32	0.044	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.051	0.32	0.051	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.041	0.32	0.041	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.029	0.32	0.029	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	108			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	105			80-120 %		"	"	"	"	

SOC7-TT5-0.5-1' (0902791-02) Soil Sampled: 06/08/09 12:30 Received: 06/10/09 11:37										
1,1,1,2-Tetrachloroethane	<0.031	0.30	0.031	mg/kg dry	1	B9F1203	06/12/09	06/12/09	EPA 8260B	
1,1,1-Trichloroethane	<0.040	0.30	0.040	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.030	0.30	0.030	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.044	0.30	0.044	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.078	0.30	0.078	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902791 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC7-TT5-0.5-1' (0902791-02) Soil Sampled: 06/08/09 12:30 Received: 06/10/09 11:37

1,1-Dichloroethane	<0.029	0.30	0.029	mg/kg dry	1	B9F1203	06/12/09	06/12/09	EPA 8260B	
1,1-Dichloroethene	<0.030	0.30	0.030	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.032	0.30	0.032	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.079	0.60	0.079	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.064	0.30	0.064	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.077	0.60	0.077	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.024	0.30	0.024	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.068	0.60	0.068	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.046	0.30	0.046	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.032	0.30	0.032	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.030	0.30	0.030	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.034	0.30	0.034	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.018	0.30	0.018	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.034	0.30	0.034	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.020	0.30	0.020	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.022	0.30	0.022	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.082	0.60	0.082	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.14	2.4	0.14	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.022	0.30	0.022	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.035	0.30	0.035	mg/kg dry	1	"	"	"	"	
Acetone	<0.38	2.4	0.38	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.080	0.60	0.080	mg/kg dry	1	"	"	"	"	
Benzene	<0.018	0.30	0.018	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.023	0.30	0.023	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.030	0.30	0.030	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.042	0.30	0.042	mg/kg dry	1	"	"	"	"	
Bromoform	<0.096	0.60	0.096	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.17	0.60	0.17	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.032	0.30	0.032	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.030	0.30	0.030	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.088	0.30	0.088	mg/kg dry	1	"	"	"	"	
Chloroform	<0.050	0.30	0.050	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.049	0.30	0.049	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.055	0.30	0.055	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.028	0.30	0.028	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.038	0.30	0.038	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.055	0.30	0.055	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.098	0.60	0.098	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.053	0.30	0.053	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902791 Date Reported: 07/28/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC7-TT5-0.5-1' (0902791-02) Soil Sampled: 06/08/09 12:30 Received: 06/10/09 11:37										
Ethyl ether	<0.058	0.60	0.058	mg/kg dry	1	B9F1203	06/12/09	06/12/09	EPA 8260B	
Ethylbenzene	<0.026	0.30	0.026	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.16	1.2	0.16	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.028	0.30	0.028	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.11	0.60	0.11	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.11	0.60	0.11	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.020	0.30	0.020	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.20	1.2	0.20	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.078	0.60	0.078	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.038	0.30	0.038	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.017	0.30	0.017	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.037	0.30	0.037	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.036	0.30	0.036	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.012	0.30	0.012	mg/kg dry	1	"	"	"	"	
Styrene	<0.048	0.30	0.048	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.022	0.30	0.022	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.042	0.30	0.042	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.12	2.4	0.12	mg/kg dry	1	"	"	"	"	
Toluene	<0.034	0.30	0.034	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.026	0.30	0.026	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.042	0.30	0.042	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.048	0.30	0.048	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.038	0.30	0.038	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.028	0.30	0.028	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	108			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	109			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	107			80-120 %		"	"	"	"	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902791
 Date Reported: 07/28/09

TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1512 - EPA 7471A											
Blank (B9F1512-BLK1) Prepared: 06/15/09 Analyzed: 06/16/09											
Mercury	< 0.10	0.10	0.0031	mg/kg wet							
LCS (B9F1512-BS1) Prepared: 06/15/09 Analyzed: 06/16/09											
Mercury	0.220	0.10	0.0031	mg/kg wet	0.200		110	80-120			
LCS Dup (B9F1512-BSD1) Prepared: 06/15/09 Analyzed: 06/16/09											
Mercury	0.218	0.10	0.0031	mg/kg wet	0.200		109	80-120	0.913	20	
Matrix Spike (B9F1512-MS1) Source: 0902790-01 Prepared: 06/15/09 Analyzed: 06/16/09											
Mercury	0.314	0.14	0.0044	mg/kg dry	0.286	<0.14	106	75-125			
Matrix Spike Dup (B9F1512-MSD1) Source: 0902790-01 Prepared: 06/15/09 Analyzed: 06/16/09											
Mercury	0.291	0.14	0.0044	mg/kg dry	0.286	<0.14	98.5	75-125	7.55	20	
Batch B9F1513 - EPA 3050B											
Blank (B9F1513-BLK1) Prepared: 06/15/09 Analyzed: 06/16/09											
Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							
LCS (B9F1513-BS1) Prepared & Analyzed: 06/15/09											
Antimony	34.9	0.50	0.0055	mg/kg wet	39.9		87.5	80-120			
Arsenic	36.6	0.50	0.10	mg/kg wet	39.9		91.7	80-120			
Beryllium	3.75	0.25	0.011	mg/kg wet	3.99		93.9	80-120			
Cadmium	38.2	0.25	0.025	mg/kg wet	39.9		95.7	80-120			
Chromium	38.1	0.50	0.012	mg/kg wet	39.9		95.6	80-120			
Copper	36.3	1.0	0.070	mg/kg wet	39.9		90.9	80-120			
Lead	37.9	1.0	0.034	mg/kg wet	39.9		95.0	80-120			
Nickel	37.6	0.50	0.014	mg/kg wet	39.9		94.2	80-120			
Selenium	36.6	1.0	0.11	mg/kg wet	39.9		91.7	80-120			
Silver	3.78	0.25	0.0090	mg/kg wet	3.99		94.7	80-120			
Thallium	38.0	2.0	0.13	mg/kg wet	39.9		95.3	80-120			
Zinc	37.7	1.0	0.22	mg/kg wet	39.9		94.5	80-120			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902791 Date Reported: 07/28/09
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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1513 - EPA 3050B

LCS Dup (B9F1513-BSD1)

Prepared & Analyzed: 06/15/09

Antimony	36.2	0.50	0.0055	mg/kg wet	39.9		90.7	80-120	3.57	20	
Arsenic	37.4	0.50	0.10	mg/kg wet	39.9		93.6	80-120	2.11	20	
Beryllium	3.81	0.25	0.011	mg/kg wet	3.99		95.6	80-120	1.81	20	
Cadmium	38.9	0.25	0.025	mg/kg wet	39.9		97.5	80-120	1.87	20	
Chromium	38.5	0.50	0.012	mg/kg wet	39.9		96.6	80-120	1.04	20	
Copper	37.0	1.0	0.070	mg/kg wet	39.9		92.7	80-120	2.05	20	
Lead	38.6	1.0	0.034	mg/kg wet	39.9		96.8	80-120	1.83	20	
Nickel	38.2	0.50	0.014	mg/kg wet	39.9		95.8	80-120	1.67	20	
Selenium	37.4	1.0	0.11	mg/kg wet	39.9		93.8	80-120	2.18	20	
Silver	3.83	0.25	0.0090	mg/kg wet	3.99		96.0	80-120	1.39	20	
Thallium	38.8	2.0	0.13	mg/kg wet	39.9		97.2	80-120	2.05	20	
Zinc	38.3	1.0	0.22	mg/kg wet	39.9		96.0	80-120	1.54	20	

Matrix Spike (B9F1513-MS1)

Source: 0902742-01

Prepared & Analyzed: 06/15/09

Antimony	38.0	0.60	0.0065	mg/kg dry	47.5	<0.60	79.6	75-125			
Arsenic	48.9	0.60	0.12	mg/kg dry	47.5	7.19	87.9	75-125			
Beryllium	4.78	0.30	0.013	mg/kg dry	4.75	0.512	89.9	75-125			
Cadmium	42.0	0.30	0.030	mg/kg dry	47.5	0.522	87.3	75-125			
Chromium	62.4	0.60	0.014	mg/kg dry	47.5	19.5	90.2	75-125			
Copper	55.0	1.2	0.083	mg/kg dry	47.5	13.1	88.3	75-125			
Lead	54.0	1.2	0.040	mg/kg dry	47.5	13.3	85.7	75-125			
Nickel	56.1	0.60	0.017	mg/kg dry	47.5	14.9	86.9	75-125			
Selenium	41.1	1.2	0.13	mg/kg dry	47.5	<1.2	86.4	75-125			
Silver	4.20	0.30	0.011	mg/kg dry	4.75	<0.30	88.4	75-125			
Thallium	38.9	2.4	0.15	mg/kg dry	47.5	<2.4	82.0	75-125			
Zinc	108	1.2	0.26	mg/kg dry	47.5	69.9	80.0	75-125			

Matrix Spike Dup (B9F1513-MSD1)

Source: 0902742-01

Prepared & Analyzed: 06/15/09

Antimony	38.0	0.60	0.0065	mg/kg dry	47.5	<0.60	79.6	75-125	0.0632	20	
Arsenic	48.1	0.60	0.12	mg/kg dry	47.5	7.19	86.1	75-125	1.76	20	
Beryllium	4.69	0.30	0.013	mg/kg dry	4.75	0.512	87.9	75-125	2.06	20	
Cadmium	41.7	0.30	0.030	mg/kg dry	47.5	0.522	86.6	75-125	0.771	20	
Chromium	60.4	0.60	0.014	mg/kg dry	47.5	19.5	86.1	75-125	3.21	20	
Copper	54.1	1.2	0.083	mg/kg dry	47.5	13.1	86.3	75-125	1.69	20	
Lead	52.9	1.2	0.040	mg/kg dry	47.5	13.3	83.3	75-125	2.11	20	
Nickel	54.7	0.60	0.017	mg/kg dry	47.5	14.9	83.8	75-125	2.64	20	
Selenium	41.1	1.2	0.13	mg/kg dry	47.5	<1.2	86.6	75-125	0.141	20	
Silver	4.20	0.30	0.011	mg/kg dry	4.75	<0.30	88.3	75-125	0.0674	20	
Thallium	39.1	2.4	0.15	mg/kg dry	47.5	<2.4	82.3	75-125	0.414	20	
Zinc	108	1.2	0.26	mg/kg dry	47.5	69.9	81.0	75-125	0.450	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902791 Date Reported: 07/28/09
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PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1518 - General Preparation											
Duplicate (B9F1518-DUP1)							Source: 0902742-04				Prepared: 06/15/09 Analyzed: 06/16/09
% Solids	85.0			%		85.0			0.00	20	
Duplicate (B9F1518-DUP2)							Source: 0902744-09				Prepared: 06/15/09 Analyzed: 06/16/09
% Solids	91.0			%		90.0			1.10	20	
Duplicate (B9F1518-DUP3)							Source: 0902791-02				Prepared: 06/15/09 Analyzed: 06/16/09
% Solids	79.0			%		79.0			0.00	20	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902791
 Date Reported: 07/28/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1703 - EPA 3545 ASE Extraction

Blank (B9F1703-BLK1)

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3'-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902791 Date Reported: 07/28/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1703 - EPA 3545 ASE Extraction

Blank (B9F1703-BLK1)

Prepared: 06/17/09 Analyzed: 06/18/09

Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	4.20			mg/kg wet	6.67		63.0	47.2-108			
Surrogate: 2-Fluorobiphenyl	3.98			mg/kg wet	6.67		59.7	53.2-85.1			
Surrogate: 2-Fluorophenol	3.94			mg/kg wet	6.67		59.1	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.01			mg/kg wet	6.67		60.1	49.1-86.9			
Surrogate: Phenol-d6	3.99			mg/kg wet	6.67		59.8	47.6-99.6			
Surrogate: Terphenyl-d14	4.32			mg/kg wet	6.67		64.8	43.6-112			

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Project: 23/19-0B05.07
 Project Number: 23/19-0B05SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902791
 Date Reported: 07/28/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1703 - EPA 3545 ASE Extraction

LCS (B9F1703-BS1)

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	4.79	0.33	0.027	mg/kg wet	6.67		71.9	50.7-82.1			
1,4-Dichlorobenzene	4.12	0.33	0.024	mg/kg wet	6.67		61.8	44-77			
2,4-Dinitrotoluene	4.48	0.33	0.021	mg/kg wet	6.67		67.1	56.7-81.7			
2-Chlorophenol	4.61	0.67	0.038	mg/kg wet	6.67		69.1	52.3-88.2			
4-Chloro-3-methylphenol	4.75	0.67	0.040	mg/kg wet	6.67		71.3	53.4-87			
4-Nitrophenol	4.96	0.67	0.099	mg/kg wet	6.67		74.5	55.7-87.1			
Anthracene	5.05	0.33	0.025	mg/kg wet	6.67		75.8	65.3-92			
Benzo (a) anthracene	5.28	0.33	0.027	mg/kg wet	6.67		79.3	69-95.3			
Benzo (a) pyrene	5.25	0.33	0.027	mg/kg wet	6.67		78.7	68.5-98.2			
Chrysene	5.18	0.33	0.033	mg/kg wet	6.67		77.7	68.6-94.2			
Fluoranthene	5.10	0.33	0.024	mg/kg wet	6.67		76.5	64.3-94.6			
Fluorene	4.92	0.33	0.018	mg/kg wet	6.67		73.8	61.9-89.4			
N-Nitrosodi-n-propylamine	4.90	0.33	0.025	mg/kg wet	6.67		73.5	55.5-91.1			
Pentachlorophenol	4.84	0.67	0.096	mg/kg wet	6.67		72.5	54.7-74.6			
Phenanthrene	5.04	0.33	0.019	mg/kg wet	6.67		75.7	64.3-90.9			
Phenol	4.46	0.67	0.057	mg/kg wet	6.67		66.9	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	5.07			mg/kg wet	6.67		76.1	47.2-108			
Surrogate: 2-Fluorobiphenyl	4.65			mg/kg wet	6.67		69.7	53.2-85.1			
Surrogate: 2-Fluorophenol	4.63			mg/kg wet	6.67		69.5	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.80			mg/kg wet	6.67		72.0	49.1-86.9			
Surrogate: Phenol-d6	4.92			mg/kg wet	6.67		73.9	47.6-99.6			
Surrogate: Terphenyl-d14	4.65			mg/kg wet	6.67		69.7	43.6-112			

Matrix Spike (B9F1703-MS1)

Source: 0902796-07

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	5.01	0.35	0.029	mg/kg dry	7.09	<0.35	70.7	51-77.5			
1,4-Dichlorobenzene	4.32	0.35	0.026	mg/kg dry	7.09	<0.35	60.9	41.7-73.4			
2,4-Dinitrotoluene	4.69	0.35	0.022	mg/kg dry	7.09	<0.35	66.1	50-84.8			
2-Chlorophenol	4.93	0.71	0.040	mg/kg dry	7.09	<0.71	69.5	47.8-90.8			
4-Chloro-3-methylphenol	5.01	0.71	0.043	mg/kg dry	7.09	<0.71	70.6	48.4-95.1			
4-Nitrophenol	5.77	0.71	0.11	mg/kg dry	7.09	<0.71	81.3	44-105			
Anthracene	5.33	0.35	0.027	mg/kg dry	7.09	<0.35	74.2	60.2-97.3			
Benzo (a) anthracene	5.41	0.35	0.029	mg/kg dry	7.09	<0.35	74.4	59.8-102			
Benzo (a) pyrene	5.22	0.35	0.029	mg/kg dry	7.09	<0.35	72.0	57.2-105			
Chrysene	5.43	0.35	0.035	mg/kg dry	7.09	<0.35	74.5	59.2-102			
Fluoranthene	5.33	0.35	0.026	mg/kg dry	7.09	<0.35	70.5	50.4-108			
Fluorene	5.40	0.35	0.019	mg/kg dry	7.09	<0.35	76.1	57.8-94.4			
N-Nitrosodi-n-propylamine	5.22	0.35	0.027	mg/kg dry	7.09	<0.35	73.6	46.2-96.2			
Pentachlorophenol	5.23	0.71	0.10	mg/kg dry	7.09	<0.71	73.7	53.6-80.4			
Phenanthrene	5.31	0.35	0.020	mg/kg dry	7.09	0.420	68.9	58.4-97.5			
Phenol	4.79	0.71	0.061	mg/kg dry	7.09	<0.71	67.5	44-88.5			

Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Project: 23/19-0B05.07
Project Number: 23/19-0B05SOC350
Project Manager: Ms. Kelly Neppi

Work Order #: 0902791
Date Reported: 07/28/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1703 - EPA 3545 ASE Extraction

Matrix Spike (B9F1703-MS1)

Source: 0902796-07

Prepared: 06/17/09 Analyzed: 06/18/09

Surrogate: 2,4,6-Tribromophenol	5.29			mg/kg dry	7.09		74.5	47.2-108			
Surrogate: 2-Fluorobiphenyl	5.12			mg/kg dry	7.09		72.3	53.2-85.1			
Surrogate: 2-Fluorophenol	4.98			mg/kg dry	7.09		70.3	48.5-90.1			
Surrogate: Nitrobenzene-d5	5.24			mg/kg dry	7.09		73.8	49.1-86.9			
Surrogate: Phenol-d6	5.33			mg/kg dry	7.09		75.1	47.6-99.6			
Surrogate: Terphenyl-d14	4.87			mg/kg dry	7.09		68.7	43.6-112			

Matrix Spike Dup (B9F1703-MSD1)

Source: 0902796-07

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	5.01	0.35	0.029	mg/kg dry	7.09	<0.35	70.6	51-77.5	0.0988	15.7	
1,4-Dichlorobenzene	4.35	0.35	0.026	mg/kg dry	7.09	<0.35	61.3	41.7-73.4	0.554	14.7	
2,4-Dinitrotoluene	4.75	0.35	0.022	mg/kg dry	7.09	<0.35	67.0	50-84.8	1.34	20.5	
2-Chlorophenol	4.95	0.71	0.040	mg/kg dry	7.09	<0.71	69.8	47.8-90.8	0.464	19.8	
4-Chloro-3-methylphenol	5.18	0.71	0.043	mg/kg dry	7.09	<0.71	73.0	48.4-95.1	3.35	18.7	
4-Nitrophenol	5.58	0.71	0.11	mg/kg dry	7.09	<0.71	78.6	44-105	3.35	30.9	
Anthracene	5.44	0.35	0.027	mg/kg dry	7.09	<0.35	75.8	60.2-97.3	2.11	15.1	
Benzo (a) anthracene	5.56	0.35	0.029	mg/kg dry	7.09	<0.35	76.5	59.8-102	2.69	19.6	
Benzo (a) pyrene	5.34	0.35	0.029	mg/kg dry	7.09	<0.35	73.7	57.2-105	2.24	19.4	
Chrysene	5.51	0.35	0.035	mg/kg dry	7.09	<0.35	75.6	59.2-102	1.46	19.6	
Fluoranthene	5.33	0.35	0.026	mg/kg dry	7.09	<0.35	70.6	50.4-108	0.0251	21	
Fluorene	5.37	0.35	0.019	mg/kg dry	7.09	<0.35	75.7	57.8-94.4	0.522	15.8	
N-Nitrosodi-n-propylamine	5.21	0.35	0.027	mg/kg dry	7.09	<0.35	73.5	46.2-96.2	0.0968	17.1	
Pentachlorophenol	5.39	0.71	0.10	mg/kg dry	7.09	<0.71	76.0	53.6-80.4	2.97	22.4	
Phenanthrene	5.46	0.35	0.020	mg/kg dry	7.09	0.420	71.1	58.4-97.5	2.89	14.3	
Phenol	4.80	0.71	0.061	mg/kg dry	7.09	<0.71	67.7	44-88.5	0.316	21.5	
Surrogate: 2,4,6-Tribromophenol	5.43			mg/kg dry	7.09		76.5	47.2-108			
Surrogate: 2-Fluorobiphenyl	5.17			mg/kg dry	7.09		72.8	53.2-85.1			
Surrogate: 2-Fluorophenol	5.00			mg/kg dry	7.09		70.5	48.5-90.1			
Surrogate: Nitrobenzene-d5	5.27			mg/kg dry	7.09		74.3	49.1-86.9			
Surrogate: Phenol-d6	5.34			mg/kg dry	7.09		75.2	47.6-99.6			
Surrogate: Terphenyl-d14	5.02			mg/kg dry	7.09		70.8	43.6-112			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902791 Date Reported: 07/28/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1203 - Volatiles

Blank (B9F1203-BLK1)

Prepared & Analyzed: 06/12/09

1,1,1,2-Tetrachloroethane	< 0.026	0.25	0.026	mg/kg wet							
1,1,1-Trichloroethane	< 0.033	0.25	0.033	mg/kg wet							
1,1,2,2-Tetrachloroethane	< 0.025	0.25	0.025	mg/kg wet							
1,1,2-Trichloroethane	< 0.037	0.25	0.037	mg/kg wet							
1,1,2-Trichlorotrifluoroethane	< 0.065	0.25	0.065	mg/kg wet							
1,1-Dichloroethane	< 0.024	0.25	0.024	mg/kg wet							
1,1-Dichloroethene	< 0.025	0.25	0.025	mg/kg wet							
1,1-Dichloropropene	< 0.027	0.25	0.027	mg/kg wet							
1,2,3-Trichlorobenzene	< 0.066	0.50	0.066	mg/kg wet							
1,2,3-Trichloropropane	< 0.053	0.25	0.053	mg/kg wet							
1,2,4-Trichlorobenzene	< 0.064	0.50	0.064	mg/kg wet							
1,2,4-Trimethylbenzene	< 0.020	0.25	0.020	mg/kg wet							
1,2-Dibromo-3-chloropropane	< 0.057	0.50	0.057	mg/kg wet							
1,2-Dibromoethane (EDB)	< 0.038	0.25	0.038	mg/kg wet							
1,2-Dichlorobenzene	< 0.027	0.25	0.027	mg/kg wet							
1,2-Dichloroethane	< 0.025	0.25	0.025	mg/kg wet							
1,2-Dichloropropane	< 0.028	0.25	0.028	mg/kg wet							
1,3,5-Trimethylbenzene	< 0.015	0.25	0.015	mg/kg wet							
1,3-Dichlorobenzene	< 0.028	0.25	0.028	mg/kg wet							
1,3-Dichloropropane	< 0.017	0.25	0.017	mg/kg wet							
1,4-Dichlorobenzene	< 0.018	0.25	0.018	mg/kg wet							
2,2-Dichloropropane	< 0.068	0.50	0.068	mg/kg wet							
2-Butanone	< 0.12	2.0	0.12	mg/kg wet							
2-Chlorotoluene	< 0.018	0.25	0.018	mg/kg wet							
4-Chlorotoluene	< 0.029	0.25	0.029	mg/kg wet							
Acetone	< 0.32	2.0	0.32	mg/kg wet							
Allyl chloride	< 0.067	0.50	0.067	mg/kg wet							
Benzene	< 0.015	0.25	0.015	mg/kg wet							
Bromobenzene	< 0.019	0.25	0.019	mg/kg wet							
Bromochloromethane	< 0.025	0.25	0.025	mg/kg wet							
Bromodichloromethane	< 0.035	0.25	0.035	mg/kg wet							
Bromoform	< 0.080	0.50	0.080	mg/kg wet							
Bromomethane	< 0.14	0.50	0.14	mg/kg wet							
Carbon tetrachloride	< 0.027	0.25	0.027	mg/kg wet							
Chlorobenzene	< 0.025	0.25	0.025	mg/kg wet							
Chloroethane	< 0.073	0.25	0.073	mg/kg wet							
Chloroform	< 0.042	0.25	0.042	mg/kg wet							
Chloromethane	< 0.041	0.25	0.041	mg/kg wet							
cis-1,2-Dichloroethene	< 0.046	0.25	0.046	mg/kg wet							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902791 Date Reported: 07/28/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1203 - Volatiles

Blank (B9F1203-BLK1)

Prepared & Analyzed: 06/12/09

cis-1,3-Dichloropropene	< 0.023	0.25	0.023	mg/kg wet							
Dibromochloromethane	< 0.032	0.25	0.032	mg/kg wet							
Dibromomethane	< 0.046	0.25	0.046	mg/kg wet							
Dichlorodifluoromethane	< 0.082	0.50	0.082	mg/kg wet							
Dichlorofluoromethane	< 0.044	0.25	0.044	mg/kg wet							
Ethyl ether	< 0.048	0.50	0.048	mg/kg wet							
Ethylbenzene	< 0.022	0.25	0.022	mg/kg wet							
Hexachlorobutadiene	< 0.13	1.0	0.13	mg/kg wet							
Isopropylbenzene	< 0.023	0.25	0.023	mg/kg wet							
m,p-Xylene	< 0.088	0.50	0.088	mg/kg wet							
Methyl isobutyl ketone	< 0.092	0.50	0.092	mg/kg wet							
Methyl tert-butyl ether	< 0.017	0.25	0.017	mg/kg wet							
Methylene chloride	< 0.17	1.0	0.17	mg/kg wet							
Naphthalene	< 0.065	0.50	0.065	mg/kg wet							
n-Butylbenzene	< 0.032	0.25	0.032	mg/kg wet							
n-Propylbenzene	< 0.014	0.25	0.014	mg/kg wet							
o-Xylene	< 0.031	0.25	0.031	mg/kg wet							
p-Isopropyltoluene	< 0.030	0.25	0.030	mg/kg wet							
sec-Butylbenzene	< 0.010	0.25	0.010	mg/kg wet							
Styrene	< 0.040	0.25	0.040	mg/kg wet							
tert-Butylbenzene	< 0.018	0.25	0.018	mg/kg wet							
Tetrachloroethene	< 0.035	0.25	0.035	mg/kg wet							
Tetrahydrofuran	< 0.10	2.0	0.10	mg/kg wet							
Toluene	< 0.028	0.25	0.028	mg/kg wet							
trans-1,2-Dichloroethene	< 0.022	0.25	0.022	mg/kg wet							
trans-1,3-Dichloropropene	< 0.035	0.25	0.035	mg/kg wet							
Trichloroethene	< 0.040	0.25	0.040	mg/kg wet							
Trichlorofluoromethane	< 0.032	0.25	0.032	mg/kg wet							
Vinyl chloride	< 0.023	0.25	0.023	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	52.5			ug/L	50.0		105	80-120			
Surrogate: Dibromofluoromethane	53.6			ug/L	50.0		107	80-120			
Surrogate: Toluene-d8	52.0			ug/L	50.0		104	80-120			

LCS (B9F1203-BS1)

Prepared & Analyzed: 06/12/09

1,1,2,2-Tetrachloroethane	44.9			ug/L	50.0		89.7	80-120			
1,1-Dichloroethane	49.6			ug/L	50.0		99.1	78.8-120			
1,1-Dichloroethene	49.0			ug/L	50.0		98.0	75-125			
1,3,5-Trimethylbenzene	44.0			ug/L	50.0		88.1	80-120			
1,4-Dichlorobenzene	45.9			ug/L	50.0		91.7	75-125			
2-Chlorotoluene	43.6			ug/L	50.0		87.2	80-120			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902791 Date Reported: 07/28/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1203 - Volatiles

LCS (B9F1203-BS1)

Prepared & Analyzed: 06/12/09

Benzene	48.9			ug/L	50.0		97.8	80-120			
Bromoform	50.5			ug/L	50.0		101	77.1-125			
Chlorobenzene	48.7			ug/L	50.0		97.3	80-120			
Chloroform	50.4			ug/L	50.0		101	77.3-120			
Ethylbenzene	49.6			ug/L	50.0		99.1	80-120			
n-Butylbenzene	45.9			ug/L	50.0		91.8	70.1-125			
n-Propylbenzene	42.9			ug/L	50.0		85.8	75-120			
Toluene	48.8			ug/L	50.0		97.6	80-120			
Trichloroethene	48.3			ug/L	50.0		96.6	80-120			
Vinyl chloride	55.4			ug/L	50.0		111	70-130			
Surrogate: 4-Bromofluorobenzene	56.5			ug/L	50.0		113	80-120			
Surrogate: Dibromofluoromethane	53.8			ug/L	50.0		108	80-120			
Surrogate: Toluene-d8	53.1			ug/L	50.0		106	80-120			

Matrix Spike (B9F1203-MS1)

Source: 0902790-01

Prepared & Analyzed: 06/12/09

1,1,2,2-Tetrachloroethane	42.6			ug/L	50.0	<	85.2	80-120			
1,1-Dichloroethane	48.7			ug/L	50.0	<	97.4	77.5-120			
1,1-Dichloroethene	46.5			ug/L	50.0	<	93.0	76.1-125			
1,3,5-Trimethylbenzene	41.3			ug/L	50.0	<	82.5	80-120			
1,4-Dichlorobenzene	44.3			ug/L	50.0	<	88.6	75-125			
2-Chlorotoluene	41.9			ug/L	50.0	<	83.7	76.9-120			
Benzene	47.5			ug/L	50.0	<	95.0	80-120			
Bromoform	48.8			ug/L	50.0	<	97.6	80-125			
Chlorobenzene	47.7			ug/L	50.0	<	95.3	80-120			
Chloroform	49.0			ug/L	50.0	<	97.9	80-120			
Ethylbenzene	48.0			ug/L	50.0	<	95.9	80-120			
n-Butylbenzene	43.7			ug/L	50.0	<	87.4	74.7-125			
n-Propylbenzene	41.0			ug/L	50.0	<	81.9	75-120			
Toluene	47.2			ug/L	50.0	<	94.4	80-120			
Trichloroethene	47.8			ug/L	50.0	<	95.6	80-120			
Vinyl chloride	53.9			ug/L	50.0	<	108	70-125			
Surrogate: 4-Bromofluorobenzene	56.0			ug/L	50.0		112	80-120			
Surrogate: Dibromofluoromethane	54.6			ug/L	50.0		109	80-120			
Surrogate: Toluene-d8	53.8			ug/L	50.0		108	80-120			

Matrix Spike Dup (B9F1203-MSD1)

Source: 0902790-01

Prepared & Analyzed: 06/12/09

1,1,2,2-Tetrachloroethane	43.5			ug/L	50.0	<	87.1	80-120	2.23	20	
1,1-Dichloroethane	50.8			ug/L	50.0	<	102	77.5-120	4.21	20	
1,1-Dichloroethene	50.4			ug/L	50.0	<	101	76.1-125	8.06	20	
1,3,5-Trimethylbenzene	43.1			ug/L	50.0	<	86.3	80-120	4.49	20	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902791
 Date Reported: 07/28/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1203 - Volatiles											
Matrix Spike Dup (B9F1203-MSD1)			Source: 0902790-01			Prepared & Analyzed: 06/12/09					
1,4-Dichlorobenzene	46.5			ug/L	50.0	<	92.9	75-125	4.82	20	
2-Chlorotoluene	42.7			ug/L	50.0	<	85.3	76.9-120	1.89	20	
Benzene	47.9			ug/L	50.0	<	95.8	80-120	0.779	20	
Bromoform	50.7			ug/L	50.0	<	101	80-125	3.75	20	
Chlorobenzene	48.8			ug/L	50.0	<	97.6	80-120	2.31	20	
Chloroform	50.4			ug/L	50.0	<	101	80-120	2.91	20	
Ethylbenzene	49.7			ug/L	50.0	<	99.3	80-120	3.50	20	
n-Butylbenzene	45.5			ug/L	50.0	<	91.0	74.7-125	4.03	20	
n-Propylbenzene	42.0			ug/L	50.0	<	84.0	75-120	2.48	20	
Toluene	48.0			ug/L	50.0	<	96.0	80-120	1.66	20	
Trichloroethene	49.2			ug/L	50.0	<	98.3	80-120	2.81	20	
Vinyl chloride	55.4			ug/L	50.0	<	111	70-125	2.60	20	
Surrogate: 4-Bromofluorobenzene	53.5			ug/L	50.0		107	80-120			
Surrogate: Dibromofluoromethane	52.9			ug/L	50.0		106	80-120			
Surrogate: Toluene-d8	51.5			ug/L	50.0		103	80-120			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902791 Date Reported: 07/28/09
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Notes and Definitions

<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

090279

Chain of Custody

4700 West 77th Street
 Minneapolis, MN 55435-4803
 (952) 832-2600

BARR

Project Number

23/19-B-05-S.O.C. 350

Project Name

UMore PHZ

No. 28188

Sample Identification	Collection		Matrix Type	
	Date	Time	Water	Soil
1. SOC7-TT-05-1'	6/8/09	8:30	X	X
2. SOC7-TT-5.05-1'	6/8/09	12:30	X	X
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				

01

02

Sample Identification	Collection		Matrix Type		Number of Containers/Preservative												Total No. of Containers	Remarks	COC	of	Date	Time									
	Date	Time	Water	Soil	Volatile Organics (Pres.) *1	Semivolatile Organics *2	Dissolved Metals (HNO ₃)	Total Metals (HNO ₃)	General (Unpreserved) *3	Cyanide (NaOH)	Nitric (H ₂ SO ₄) *4	Oil and Grease (H ₂ SO ₄)	Methane Sulfide (Zn Acetate)	Bacteria (Na ₂ S ₂ O ₃)	DRO (HCl)	VOCs (2-oz tared MeOH) *7							GRO, BTEX (2-oz tared MeOH) *7	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCS (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)				
1. SOC7-TT-05-1'	6/8/09	8:30	X	X											X										4	Analyze VOCs PPL Metals, SVOCS	1	6/18/09	11:57		
2. SOC7-TT-5.05-1'	6/8/09	12:30	X	X											X										4		1	6/18/09	11:57		
3.																															
4.																															
5.																															
6.																															
7.																															
8.																															
9.																															
10.																															
11.																															
12.																															

Common Parameter/Container - Preservation Key
 *1 - Volatile Organics = BTEX, GRO, TPH, Full List
 *2 - Semivolatile Organics = PAHs, PCB, Dioxins, Full List, Herbicide/Pesticide/PCBs
 *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDN, TS, Sulfate
 *4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Requested By: [Signature]
 Relinquished By: [Signature]
 Date: 6/18/09
 Time: 11:57
 Received by: [Signature]
 Date: 6/18/09
 Time: 11:57
 Air Bill Number: [Blank]

Distribution: White-Original Accompanies Shipment to Lab. Yellow - Field Copy. Pink - Lab Coordinator

100 6/18/09



88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

June 25, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0902797
RE: 23/19-0B05.07

Enclosed are the results of analyses for samples received by the laboratory on 06/10/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
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Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC3-TT8-0.5-1'	0902797-01	Soil	06/08/09 11:00	06/10/09 11:00
SOC3-TT7-0.5-1'	0902797-02	Soil	06/08/09 13:00	06/10/09 11:00
SOC3-TT1-1-2'	0902797-03	Soil	06/09/09 10:00	06/10/09 11:00
SOC3-TT1S-3-4'	0902797-04	Soil	06/09/09 10:30	06/10/09 11:00
SOC3-TT1S-5'	0902797-05	Soil	06/09/09 10:45	06/10/09 11:00
SOC3-TT2-5'	0902797-06	Soil	06/09/09 14:00	06/10/09 11:00
SOC3-TT2-3-4'	0902797-07	Soil	06/09/09 14:30	06/10/09 11:00

Shipping Container Information

Default Cooler

Temperature (°C):

Received on ice: Yes
 Received on melt water: No
 Custody seals: No

Temperature blank was not present
 Ambient: No

Received on ice pack: No
 Acceptable (IH/ISO only): No

Case Narrative:

Recovery for the 8081A surrogate decachlorobiphenyl was below laboratory limit in the soil sample SOC3-TT2-3-4'. All spike compounds and surrogate recoveries in the 8081A batch B9F1515 blank, LCS, and MS/MSD were acceptable.

Recoveries for most of the compounds in the 8270 SVOC batch B9F1801 MS were below laboratory limits. The MS/MSD %RPDs for most of the compounds were outside laboratory limits. Recoveries for the surrogates 2-fluorobiphenyl and 2-fluorophenol in the MS were below laboratory limits. All spike compounds and surrogates were within limits in the batch method blank and LCS/MSD. The MS/MSD source sample was not associated with this work order.

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902797 Date Reported: 06/25/09
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TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT8-0.5-1' (0902797-01) Soil Sampled: 06/08/09 11:00 Received: 06/10/09 11:00										
Antimony	<0.58	0.58	0.0064	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Arsenic	6.4	0.58	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	0.40	0.29	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.29	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chromium	15	0.58	0.014	mg/kg dry	1	"	"	"	"	
Copper	8.9	1.2	0.081	mg/kg dry	1	"	"	"	"	
Lead	9.2	1.2	0.040	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0036	mg/kg dry	1	B9F1811	06/18/09	06/23/09	EPA 7471A	
Nickel	13	0.58	0.016	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Silver	<0.29	0.29	0.010	mg/kg dry	1	"	"	"	"	
Thallium	<2.3	2.3	0.15	mg/kg dry	1	"	"	"	"	
Zinc	39	1.2	0.26	mg/kg dry	1	"	"	"	"	

SOC3-TT7-0.5-1' (0902797-02) Soil Sampled: 06/08/09 13:00 Received: 06/10/09 11:00										
Antimony	<0.56	0.56	0.0061	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Arsenic	5.9	0.56	0.11	mg/kg dry	1	"	"	"	"	
Beryllium	0.36	0.28	0.012	mg/kg dry	1	"	"	"	"	
Cadmium	<0.28	0.28	0.028	mg/kg dry	1	"	"	"	"	
Chromium	15	0.56	0.013	mg/kg dry	1	"	"	"	"	
Copper	12	1.1	0.078	mg/kg dry	1	"	"	"	"	
Lead	7.9	1.1	0.038	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0034	mg/kg dry	1	B9F1811	06/18/09	06/23/09	EPA 7471A	
Nickel	15	0.56	0.016	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Silver	<0.28	0.28	0.010	mg/kg dry	1	"	"	"	"	
Thallium	<2.2	2.2	0.14	mg/kg dry	1	"	"	"	"	
Zinc	35	1.1	0.24	mg/kg dry	1	"	"	"	"	

SOC3-TT1-1-2' (0902797-03) Soil Sampled: 06/09/09 10:00 Received: 06/10/09 11:00										
Antimony	<0.57	0.57	0.0062	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Arsenic	2.6	0.57	0.11	mg/kg dry	1	"	"	"	"	
Beryllium	<0.28	0.28	0.012	mg/kg dry	1	"	"	"	"	
Cadmium	<0.28	0.28	0.028	mg/kg dry	1	"	"	"	"	
Chromium	9.6	0.57	0.014	mg/kg dry	1	"	"	"	"	
Copper	9.0	1.1	0.080	mg/kg dry	1	"	"	"	"	
Lead	3.9	1.1	0.039	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0035	mg/kg dry	1	B9F1811	06/18/09	06/23/09	EPA 7471A	
Nickel	9.9	0.57	0.016	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC3-TT1-1-2' (0902797-03) Soil Sampled: 06/09/09 10:00 Received: 06/10/09 11:00

Selenium	<1.1	1.1	0.12	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Silver	<0.28	0.28	0.010	mg/kg dry	1	"	"	"	"	
Thallium	<2.3	2.3	0.15	mg/kg dry	1	"	"	"	"	
Zinc	22	1.1	0.25	mg/kg dry	1	"	"	"	"	

SOC3-TT1S-3-4' (0902797-04) Soil Sampled: 06/09/09 10:30 Received: 06/10/09 11:00

Antimony	<0.53	0.53	0.0059	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Arsenic	3.1	0.53	0.11	mg/kg dry	1	"	"	"	"	
Beryllium	<0.27	0.27	0.012	mg/kg dry	1	"	"	"	"	
Cadmium	<0.27	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chromium	11	0.53	0.013	mg/kg dry	1	"	"	"	"	
Copper	8.1	1.1	0.074	mg/kg dry	1	"	"	"	"	
Lead	3.6	1.1	0.036	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0033	mg/kg dry	1	B9F1811	06/18/09	06/23/09	EPA 7471A	
Nickel	11	0.53	0.015	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Silver	<0.27	0.27	0.0096	mg/kg dry	1	"	"	"	"	
Thallium	<2.1	2.1	0.14	mg/kg dry	1	"	"	"	"	
Zinc	22	1.1	0.23	mg/kg dry	1	"	"	"	"	

SOC3-TT1S-5' (0902797-05) Soil Sampled: 06/09/09 10:45 Received: 06/10/09 11:00

Antimony	<0.52	0.52	0.0057	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Arsenic	1.4	0.52	0.10	mg/kg dry	1	"	"	"	"	
Beryllium	<0.26	0.26	0.011	mg/kg dry	1	"	"	"	"	
Cadmium	<0.26	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chromium	5.9	0.52	0.012	mg/kg dry	1	"	"	"	"	
Copper	5.7	1.0	0.072	mg/kg dry	1	"	"	"	"	
Lead	1.2	1.0	0.035	mg/kg dry	1	"	"	"	"	
Mercury	<0.10	0.10	0.0032	mg/kg dry	1	B9F1811	06/18/09	06/23/09	EPA 7471A	
Nickel	6.1	0.52	0.014	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Selenium	<1.0	1.0	0.11	mg/kg dry	1	"	"	"	"	
Silver	<0.26	0.26	0.0093	mg/kg dry	1	"	"	"	"	
Thallium	<2.1	2.1	0.13	mg/kg dry	1	"	"	"	"	
Zinc	12	1.0	0.23	mg/kg dry	1	"	"	"	"	

SOC3-TT2-5' (0902797-06) Soil Sampled: 06/09/09 14:00 Received: 06/10/09 11:00

Antimony	<0.51	0.51	0.0056	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Arsenic	1.8	0.51	0.10	mg/kg dry	1	"	"	"	"	
Beryllium	<0.26	0.26	0.011	mg/kg dry	1	"	"	"	"	
Cadmium	<0.26	0.26	0.026	mg/kg dry	1	"	"	"	"	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05SOC 350
 Project Manager: Ms. Kelly Nepl

Work Order #: 0902797
 Date Reported: 06/25/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT2-5' (0902797-06) Soil Sampled: 06/09/09 14:00 Received: 06/10/09 11:00										
Chromium	7.9	0.51	0.012	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Copper	7.7	1.0	0.071	mg/kg dry	1	"	"	"	"	
Lead	1.7	1.0	0.035	mg/kg dry	1	"	"	"	"	
Mercury	<0.10	0.10	0.0032	mg/kg dry	1	B9F1811	06/18/09	06/23/09	EPA 7471A	
Nickel	9.7	0.51	0.014	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Selenium	<1.0	1.0	0.11	mg/kg dry	1	"	"	"	"	
Silver	<0.26	0.26	0.0092	mg/kg dry	1	"	"	"	"	
Thallium	<2.0	2.0	0.13	mg/kg dry	1	"	"	"	"	
Zinc	16	1.0	0.22	mg/kg dry	1	"	"	"	"	

SOC3-TT2-3-4' (0902797-07) Soil Sampled: 06/09/09 14:30 Received: 06/10/09 11:00										
Antimony	<0.54	0.54	0.0060	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Arsenic	2.1	0.54	0.11	mg/kg dry	1	"	"	"	"	
Beryllium	<0.27	0.27	0.012	mg/kg dry	1	"	"	"	"	
Cadmium	<0.27	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chromium	7.4	0.54	0.013	mg/kg dry	1	"	"	"	"	
Copper	5.8	1.1	0.076	mg/kg dry	1	"	"	"	"	
Lead	2.5	1.1	0.037	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0034	mg/kg dry	1	B9F1811	06/18/09	06/23/09	EPA 7471A	
Nickel	8.7	0.54	0.015	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Silver	<0.27	0.27	0.0098	mg/kg dry	1	"	"	"	"	
Thallium	<2.2	2.2	0.14	mg/kg dry	1	"	"	"	"	
Zinc	17	1.1	0.24	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT8-0.5-1' (0902797-01) Soil Sampled: 06/08/09 11:00 Received: 06/10/09 11:00										
% Solids	86			%	1	B9F1705	06/17/09	06/17/09	% calculation	
SOC3-TT7-0.5-1' (0902797-02) Soil Sampled: 06/08/09 13:00 Received: 06/10/09 11:00										
% Solids	90			%	1	B9F1705	06/17/09	06/17/09	% calculation	
SOC3-TT1-1-2' (0902797-03) Soil Sampled: 06/09/09 10:00 Received: 06/10/09 11:00										
% Solids	88			%	1	B9F1705	06/17/09	06/17/09	% calculation	
SOC3-TT1S-3-4' (0902797-04) Soil Sampled: 06/09/09 10:30 Received: 06/10/09 11:00										
% Solids	94			%	1	B9F1705	06/17/09	06/17/09	% calculation	
SOC3-TT1S-5' (0902797-05) Soil Sampled: 06/09/09 10:45 Received: 06/10/09 11:00										
% Solids	97			%	1	B9F1705	06/17/09	06/17/09	% calculation	
SOC3-TT2-5' (0902797-06) Soil Sampled: 06/09/09 14:00 Received: 06/10/09 11:00										
% Solids	98			%	1	B9F1705	06/17/09	06/17/09	% calculation	
SOC3-TT2-3-4' (0902797-07) Soil Sampled: 06/09/09 14:30 Received: 06/10/09 11:00										
% Solids	92			%	1	B9F1705	06/17/09	06/17/09	% calculation	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902797 Date Reported: 06/25/09
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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT8-0.5-1' (0902797-01) Soil Sampled: 06/08/09 11:00 Received: 06/10/09 11:00										
4,4'-DDD	<0.047	0.047	0.0014	mg/kg dry	1	B9F1515	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.047	0.047	0.0015	mg/kg dry	1	"	"	"	"	
4,4'-DDT	<0.047	0.047	0.0017	mg/kg dry	1	"	"	"	"	
a-Chlordane	<0.047	0.047	0.0016	mg/kg dry	1	"	"	"	"	
Aldrin	<0.047	0.047	0.0014	mg/kg dry	1	"	"	"	"	
alpha-BHC	<0.047	0.047	0.0017	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.047	0.047	0.0019	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.047	0.047	0.0020	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.047	0.047	0.0016	mg/kg dry	1	"	"	"	"	
Endosulfan I	<0.047	0.047	0.0017	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.047	0.047	0.0017	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.047	0.047	0.0017	mg/kg dry	1	"	"	"	"	
Endrin	<0.047	0.047	0.0016	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.047	0.047	0.0017	mg/kg dry	1	"	"	"	"	
Endrin ketone	<0.047	0.047	0.0016	mg/kg dry	1	"	"	"	"	
gamma-BHC (Lindane)	<0.047	0.047	0.0016	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.047	0.047	0.0016	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.047	0.047	0.0017	mg/kg dry	1	"	"	"	"	
Heptachlor epoxide	<0.047	0.047	0.0017	mg/kg dry	1	"	"	"	"	
Methoxychlor	<0.047	0.047	0.0017	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.093	0.093	0.0071	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	89.0			83.7-130 %		"	"	06/17/09	"	
Surrogate: Tetrachloro-meta-xylene	89.5			65.2-135 %		"	"	"	"	

SOC3-TT7-0.5-1' (0902797-02) Soil Sampled: 06/08/09 13:00 Received: 06/10/09 11:00										
4,4'-DDD	<0.044	0.044	0.0013	mg/kg dry	1	B9F1515	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.044	0.044	0.0014	mg/kg dry	1	"	"	"	"	
4,4'-DDT	<0.044	0.044	0.0017	mg/kg dry	1	"	"	"	"	
a-Chlordane	<0.044	0.044	0.0016	mg/kg dry	1	"	"	"	"	
Aldrin	<0.044	0.044	0.0013	mg/kg dry	1	"	"	"	"	
alpha-BHC	<0.044	0.044	0.0017	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.044	0.044	0.0018	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.044	0.044	0.0019	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.044	0.044	0.0016	mg/kg dry	1	"	"	"	"	
Endosulfan I	<0.044	0.044	0.0017	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.044	0.044	0.0017	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.044	0.044	0.0017	mg/kg dry	1	"	"	"	"	
Endrin	<0.044	0.044	0.0016	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.044	0.044	0.0017	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC3-TT7-0.5-1' (0902797-02) Soil **Sampled: 06/08/09 13:00** **Received: 06/10/09 11:00**

Endrin ketone	<0.044	0.044	0.0016	mg/kg dry	1	B9F1515	06/15/09	06/17/09	EPA 8081A	
gamma-BHC (Lindane)	<0.044	0.044	0.0016	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.044	0.044	0.0016	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.044	0.044	0.0017	mg/kg dry	1	"	"	"	"	
Heptachlor epoxide	<0.044	0.044	0.0017	mg/kg dry	1	"	"	"	"	
Methoxychlor	<0.044	0.044	0.0017	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.089	0.089	0.0068	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	95.0			83.7-130 %		"	"	06/17/09	"	
Surrogate: Tetrachloro-meta-xylene	96.5			65.2-135 %		"	"	"	"	

SOC3-TT1-1-2' (0902797-03) Soil **Sampled: 06/09/09 10:00** **Received: 06/10/09 11:00**

4,4'-DDD	<0.045	0.045	0.0014	mg/kg dry	1	B9F1515	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.045	0.045	0.0015	mg/kg dry	1	"	"	"	"	
4,4'-DDT	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
a-Chlordane	<0.045	0.045	0.0016	mg/kg dry	1	"	"	"	"	
Aldrin	<0.045	0.045	0.0014	mg/kg dry	1	"	"	"	"	
alpha-BHC	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.045	0.045	0.0018	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.045	0.045	0.0019	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.045	0.045	0.0016	mg/kg dry	1	"	"	"	"	
Endosulfan I	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
Endrin	<0.045	0.045	0.0016	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
Endrin ketone	<0.045	0.045	0.0016	mg/kg dry	1	"	"	"	"	
gamma-BHC (Lindane)	<0.045	0.045	0.0016	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.045	0.045	0.0016	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
Heptachlor epoxide	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
Methoxychlor	<0.045	0.045	0.0017	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.091	0.091	0.0069	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	96.0			83.7-130 %		"	"	06/17/09	"	
Surrogate: Tetrachloro-meta-xylene	98.0			65.2-135 %		"	"	"	"	

SOC3-TT1S-3-4' (0902797-04) Soil **Sampled: 06/09/09 10:30** **Received: 06/10/09 11:00**

4,4'-DDD	<0.043	0.043	0.0013	mg/kg dry	1	B9F1515	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.043	0.043	0.0014	mg/kg dry	1	"	"	"	"	
4,4'-DDT	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
a-Chlordane	<0.043	0.043	0.0015	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT1S-3-4' (0902797-04) Soil Sampled: 06/09/09 10:30 Received: 06/10/09 11:00										
Aldrin	<0.043	0.043	0.0013	mg/kg dry	1	B9F1515	06/15/09	06/17/09	EPA 8081A	
alpha-BHC	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.043	0.043	0.0017	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.043	0.043	0.0018	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.043	0.043	0.0015	mg/kg dry	1	"	"	"	"	
Endosulfan I	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Endrin	<0.043	0.043	0.0015	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Endrin ketone	<0.043	0.043	0.0015	mg/kg dry	1	"	"	"	"	
gamma-BHC (Lindane)	<0.043	0.043	0.0015	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.043	0.043	0.0015	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Heptachlor epoxide	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Methoxychlor	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.085	0.085	0.0065	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	98.5			83.7-130 %		"	"	06/17/09	"	
Surrogate: Tetrachloro-meta-xylene	100			65.2-135 %		"	"	"	"	

SOC3-TT1S-5' (0902797-05) Soil Sampled: 06/09/09 10:45 Received: 06/10/09 11:00										
4,4'-DDD	<0.041	0.041	0.0012	mg/kg dry	1	B9F1515	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.041	0.041	0.0013	mg/kg dry	1	"	"	"	"	
4,4'-DDT	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
a-Chlordane	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
Aldrin	<0.041	0.041	0.0012	mg/kg dry	1	"	"	"	"	
alpha-BHC	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.041	0.041	0.0016	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.041	0.041	0.0018	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
Endosulfan I	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Endrin	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Endrin ketone	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
gamma-BHC (Lindane)	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902797 Date Reported: 06/25/09
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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT1S-5' (0902797-05) Soil Sampled: 06/09/09 10:45 Received: 06/10/09 11:00										
Heptachlor epoxide	<0.041	0.041	0.0015	mg/kg dry	1	B9F1515	06/15/09	06/17/09	EPA 8081A	
Methoxychlor	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.082	0.082	0.0063	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	94.5			83.7-130 %		"	"	06/17/09	"	
Surrogate: Tetrachloro-meta-xylene	95.5			65.2-135 %		"	"	"	"	

SOC3-TT2-5' (0902797-06) Soil Sampled: 06/09/09 14:00 Received: 06/10/09 11:00										
4,4'-DDD	<0.041	0.041	0.0012	mg/kg dry	1	B9F1515	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.041	0.041	0.0013	mg/kg dry	1	"	"	"	"	
4,4'-DDT	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
a-Chlordane	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
Aldrin	<0.041	0.041	0.0012	mg/kg dry	1	"	"	"	"	
alpha-BHC	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.041	0.041	0.0016	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.041	0.041	0.0017	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
Endosulfan I	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Endrin	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Endrin ketone	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
gamma-BHC (Lindane)	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Heptachlor epoxide	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Methoxychlor	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.082	0.082	0.0062	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	94.5			83.7-130 %		"	"	06/17/09	"	
Surrogate: Tetrachloro-meta-xylene	97.0			65.2-135 %		"	"	"	"	

SOC3-TT2-3-4' (0902797-07) Soil Sampled: 06/09/09 14:30 Received: 06/10/09 11:00										
4,4'-DDD	<0.043	0.043	0.0013	mg/kg dry	1	B9F1515	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.043	0.043	0.0014	mg/kg dry	1	"	"	"	"	
4,4'-DDT	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
a-Chlordane	<0.043	0.043	0.0015	mg/kg dry	1	"	"	"	"	
Aldrin	<0.043	0.043	0.0013	mg/kg dry	1	"	"	"	"	
alpha-BHC	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.043	0.043	0.0017	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.043	0.043	0.0018	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT2-3-4' (0902797-07) Soil Sampled: 06/09/09 14:30 Received: 06/10/09 11:00										
Dieldrin	<0.043	0.043	0.0015	mg/kg dry	1	B9F1515	06/15/09	06/17/09	EPA 8081A	
Endosulfan I	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Endrin	<0.043	0.043	0.0015	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Endrin ketone	<0.043	0.043	0.0015	mg/kg dry	1	"	"	"	"	
gamma-BHC (Lindane)	<0.043	0.043	0.0015	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.043	0.043	0.0015	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Heptachlor epoxide	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Methoxychlor	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.087	0.087	0.0066	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	81.5			83.7-130 %		"	"	06/17/09	"	S-GC
Surrogate: Tetrachloro-meta-xylene	87.0			65.2-135 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT8-0.5-1' (0902797-01) Soil Sampled: 06/08/09 11:00 Received: 06/10/09 11:00										
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9F1703	06/17/09	06/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.78	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.78	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.78	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.78	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.050	0.78	0.050	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.78	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.042	0.78	0.042	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.45	1.9	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.086	0.78	0.086	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.047	0.78	0.047	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.78	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.78	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.78	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.78	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.84	2.9	0.84	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.040	0.38	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.035	0.38	0.035	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT8-0.5-1' (0902797-01) Soil Sampled: 06/08/09 11:00 Received: 06/10/09 11:00										
Benzo (k) fluoranthene	<0.036	0.38	0.036	mg/kg dry	1	B9F1703	06/17/09	06/18/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.78	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.040	0.38	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.38	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.048	0.38	0.048	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.035	0.38	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.78	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.78	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	79.5			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	71.5			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	69.9			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	73.0			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	73.7			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	69.6			43.6-112 %		"	"	"	"	

Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Project: 23/19-0B05.07
Project Number: 23/19-0B05SOC 350
Project Manager: Ms. Kelly Nepl

Work Order #: 0902797
Date Reported: 06/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT7-0.5-1' (0902797-02) Soil Sampled: 06/08/09 13:00 Received: 06/10/09 11:00										
1,2,4-Trichlorobenzene	<0.030	0.37	0.030	mg/kg dry	1	B9F1703	06/17/09	06/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.042	0.74	0.042	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.027	0.74	0.027	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.039	0.74	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.039	0.74	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.74	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.064	0.74	0.064	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.023	0.37	0.023	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.048	0.74	0.048	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.042	0.74	0.042	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.039	0.74	0.039	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.040	0.74	0.040	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.43	1.8	0.43	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.082	0.74	0.082	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.044	0.74	0.044	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.74	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.030	0.74	0.030	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.74	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.74	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
Benzidine	<0.80	2.8	0.80	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.030	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.030	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.038	0.37	0.038	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.033	0.37	0.033	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT7-0.5-1' (0902797-02) Soil Sampled: 06/08/09 13:00 Received: 06/10/09 11:00										
Benzo (k) fluoranthene	<0.034	0.37	0.034	mg/kg dry	1	B9F1703	06/17/09	06/18/09	EPA 8270C	
Benzoic acid	<0.064	0.37	0.064	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.74	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.023	0.37	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.023	0.37	0.023	mg/kg dry	1	"	"	"	"	
Carbazole	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Chrysene	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.038	0.37	0.038	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.37	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.041	0.37	0.041	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
Fluorene	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.37	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.046	0.37	0.046	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.036	0.37	0.036	mg/kg dry	1	"	"	"	"	
Isophorone	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.032	0.37	0.032	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.033	0.37	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.036	0.37	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.74	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
Phenol	<0.063	0.74	0.063	mg/kg dry	1	"	"	"	"	
Pyrene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	68.8			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	64.9			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	62.0			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	66.9			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	66.0			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	62.3			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT1-1-2' (0902797-03) Soil Sampled: 06/09/09 10:00 Received: 06/10/09 11:00										
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9F1703	06/17/09	06/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.043	0.76	0.043	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.027	0.76	0.027	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.040	0.76	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.040	0.76	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.76	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.066	0.76	0.066	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.049	0.76	0.049	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.043	0.76	0.043	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.040	0.76	0.040	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.041	0.76	0.041	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.44	1.8	0.44	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.084	0.76	0.084	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.019	0.38	0.019	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.045	0.76	0.045	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.76	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.76	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.76	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.76	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Benzidine	<0.82	2.8	0.82	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT1-1-2' (0902797-03) Soil Sampled: 06/09/09 10:00 Received: 06/10/09 11:00										
Benzo (k) fluoranthene	<0.035	0.38	0.035	mg/kg dry	1	B9F1703	06/17/09	06/18/09	EPA 8270C	
Benzoic acid	<0.066	0.38	0.066	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.76	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	0.29	0.38	0.042	mg/kg dry	1	"	"	"	"	J
Di-n-octyl phthalate	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Fluorene	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.38	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.047	0.38	0.047	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.036	0.38	0.036	mg/kg dry	1	"	"	"	"	
Isophorone	<0.019	0.38	0.019	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.036	0.38	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.76	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.065	0.76	0.065	mg/kg dry	1	"	"	"	"	
Pyrene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	69.5			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	61.5			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	60.3			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	62.8			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	62.3			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	66.4			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC3-TT1S-3-4' (0902797-04) Soil Sampled: 06/09/09 10:30 Received: 06/10/09 11:00

1,2,4-Trichlorobenzene	<0.029	0.35	0.029	mg/kg dry	1	B9F1703	06/17/09	06/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.040	0.71	0.040	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.026	0.71	0.026	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.096	0.71	0.096	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.062	0.71	0.062	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.046	0.71	0.046	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.040	0.71	0.040	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.038	0.71	0.038	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.41	1.7	0.41	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.079	0.71	0.079	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.043	0.71	0.043	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.71	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.029	0.71	0.029	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.71	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.096	0.71	0.096	mg/kg dry	1	"	"	"	"	
Anthracene	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
Benzidine	<0.77	2.7	0.77	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.029	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.029	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.036	0.35	0.036	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.032	0.35	0.032	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT1S-3-4' (0902797-04) Soil Sampled: 06/09/09 10:30 Received: 06/10/09 11:00										
Benzo (k) fluoranthene	<0.033	0.35	0.033	mg/kg dry	1	B9F1703	06/17/09	06/18/09	EPA 8270C	
Benzoic acid	<0.062	0.35	0.062	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.71	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Chrysene	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.036	0.35	0.036	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.016	0.35	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.039	0.35	0.039	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.017	0.35	0.017	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.044	0.35	0.044	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.034	0.35	0.034	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.031	0.35	0.031	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.032	0.35	0.032	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.034	0.35	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.10	0.71	0.10	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.061	0.71	0.061	mg/kg dry	1	"	"	"	"	
Pyrene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	52.5			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	53.8			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	53.9			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	56.2			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	55.3			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	54.0			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902797 Date Reported: 06/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT1S-5' (0902797-05) Soil Sampled: 06/09/09 10:45 Received: 06/10/09 11:00										
1,2,4-Trichlorobenzene	<0.028	0.34	0.028	mg/kg dry	1	B9F1703	06/17/09	06/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.039	0.69	0.039	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.025	0.69	0.025	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.093	0.69	0.093	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.060	0.69	0.060	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.044	0.69	0.044	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.039	0.69	0.039	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.037	0.69	0.037	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.40	1.6	0.40	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.076	0.69	0.076	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.041	0.69	0.041	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.11	0.69	0.11	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.028	0.69	0.028	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.69	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.093	0.69	0.093	mg/kg dry	1	"	"	"	"	
Anthracene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.74	2.6	0.74	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT1S-5' (0902797-05) Soil Sampled: 06/09/09 10:45 Received: 06/10/09 11:00										
Benzo (k) fluoranthene	<0.032	0.34	0.032	mg/kg dry	1	B9F1703	06/17/09	06/18/09	EPA 8270C	
Benzoic acid	<0.060	0.34	0.060	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.12	0.69	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Chrysene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.015	0.34	0.015	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.038	0.34	0.038	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.016	0.34	0.016	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.042	0.34	0.042	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.030	0.34	0.030	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.099	0.69	0.099	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.059	0.69	0.059	mg/kg dry	1	"	"	"	"	
Pyrene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	55.9			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	57.1			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	56.4			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	59.2			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	58.5			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	59.5			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT2-5' (0902797-06) Soil Sampled: 06/09/09 14:00 Received: 06/10/09 11:00										
1,2,4-Trichlorobenzene	<0.028	0.34	0.028	mg/kg dry	1	B9F1703	06/17/09	06/19/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.039	0.68	0.039	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.024	0.68	0.024	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.036	0.68	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.036	0.68	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.092	0.68	0.092	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.059	0.68	0.059	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.044	0.68	0.044	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.039	0.68	0.039	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.036	0.68	0.036	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.037	0.68	0.037	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.40	1.6	0.40	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.076	0.68	0.076	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.017	0.34	0.017	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.041	0.68	0.041	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.11	0.68	0.11	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.028	0.68	0.028	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.68	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Aniline	<0.092	0.68	0.092	mg/kg dry	1	"	"	"	"	
Anthracene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.73	2.6	0.73	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT2-5' (0902797-06) Soil Sampled: 06/09/09 14:00 Received: 06/10/09 11:00										
Benzo (k) fluoranthene	<0.032	0.34	0.032	mg/kg dry	1	B9F1703	06/17/09	06/19/09	EPA 8270C	
Benzoic acid	<0.059	0.34	0.059	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.12	0.68	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Carbazole	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Chrysene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.015	0.34	0.015	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.038	0.34	0.038	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Fluorene	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.016	0.34	0.016	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.042	0.34	0.042	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
Isophorone	<0.017	0.34	0.017	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.030	0.34	0.030	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.098	0.68	0.098	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Phenol	<0.058	0.68	0.058	mg/kg dry	1	"	"	"	"	
Pyrene	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	60.0			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	63.3			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	62.0			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	64.9			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	65.9			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	67.2			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT2-3-4' (0902797-07) Soil Sampled: 06/09/09 14:30 Received: 06/10/09 11:00										
1,2,4-Trichlorobenzene	<0.029	0.36	0.029	mg/kg dry	1	B9F1801	06/18/09	06/19/09	EPA 8270C	
1,2-Dichlorobenzene	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.026	0.36	0.026	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.041	0.73	0.041	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.026	0.73	0.026	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.038	0.73	0.038	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.038	0.73	0.038	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.098	0.73	0.098	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.063	0.73	0.063	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.047	0.73	0.047	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.041	0.73	0.041	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.030	0.36	0.030	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.038	0.73	0.038	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.039	0.73	0.039	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.42	1.7	0.42	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.036	0.36	0.036	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.080	0.73	0.080	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.36	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.043	0.73	0.043	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.73	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.029	0.73	0.029	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.73	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.030	0.36	0.030	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
Aniline	<0.098	0.73	0.098	mg/kg dry	1	"	"	"	"	
Anthracene	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
Benzidine	<0.78	2.7	0.78	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.029	0.36	0.029	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.029	0.36	0.029	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.037	0.36	0.037	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.033	0.36	0.033	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT2-3-4' (0902797-07) Soil Sampled: 06/09/09 14:30 Received: 06/10/09 11:00										
Benzo (k) fluoranthene	<0.034	0.36	0.034	mg/kg dry	1	B9F1801	06/18/09	06/19/09	EPA 8270C	
Benzoic acid	<0.063	0.36	0.063	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.73	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.026	0.36	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.024	0.36	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	
Carbazole	<0.024	0.36	0.024	mg/kg dry	1	"	"	"	"	
Chrysene	<0.036	0.36	0.036	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.037	0.36	0.037	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.016	0.36	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.36	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.040	0.36	0.040	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.026	0.36	0.026	mg/kg dry	1	"	"	"	"	
Fluorene	<0.020	0.36	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.017	0.36	0.017	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.036	0.36	0.036	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.045	0.36	0.045	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.030	0.36	0.030	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.035	0.36	0.035	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.36	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.032	0.36	0.032	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.033	0.36	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.035	0.36	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.36	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.10	0.73	0.10	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
Phenol	<0.062	0.73	0.062	mg/kg dry	1	"	"	"	"	
Pyrene	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	63.4			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	60.2			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	57.1			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	61.9			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	60.1			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	57.3			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902797 Date Reported: 06/25/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT8-0.5-1' (0902797-01) Soil Sampled: 06/08/09 11:00 Received: 06/10/09 11:00										
1,1,1,2-Tetrachloroethane	<0.028	0.27	0.028	mg/kg dry	1	B9F1511	06/15/09	06/15/09	EPA 8260B	
1,1,1-Trichloroethane	<0.036	0.27	0.036	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.040	0.27	0.040	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.071	0.27	0.071	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.026	0.27	0.026	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.030	0.27	0.030	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.072	0.55	0.072	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.058	0.27	0.058	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.070	0.55	0.070	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.022	0.27	0.022	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.062	0.55	0.062	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.042	0.27	0.042	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.030	0.27	0.030	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.031	0.27	0.031	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.016	0.27	0.016	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.031	0.27	0.031	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.019	0.27	0.019	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.020	0.27	0.020	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.074	0.55	0.074	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.13	2.2	0.13	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.020	0.27	0.020	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.032	0.27	0.032	mg/kg dry	1	"	"	"	"	
Acetone	<0.35	2.2	0.35	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.073	0.55	0.073	mg/kg dry	1	"	"	"	"	
Benzene	<0.016	0.27	0.016	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.021	0.27	0.021	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.038	0.27	0.038	mg/kg dry	1	"	"	"	"	
Bromoform	<0.087	0.55	0.087	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.15	0.55	0.15	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.030	0.27	0.030	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.080	0.27	0.080	mg/kg dry	1	"	"	"	"	
Chloroform	<0.046	0.27	0.046	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.045	0.27	0.045	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.050	0.27	0.050	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902797 Date Reported: 06/25/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT8-0.5-1' (0902797-01) Soil Sampled: 06/08/09 11:00 Received: 06/10/09 11:00										
cis-1,3-Dichloropropene	<0.025	0.27	0.025	mg/kg dry	1	B9F1511	06/15/09	06/15/09	EPA 8260B	
Dibromochloromethane	<0.035	0.27	0.035	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.050	0.27	0.050	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.090	0.55	0.090	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.048	0.27	0.048	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.052	0.55	0.052	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.024	0.27	0.024	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.14	1.1	0.14	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.025	0.27	0.025	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.096	0.55	0.096	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.10	0.55	0.10	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.019	0.27	0.019	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.19	1.1	0.19	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.071	0.55	0.071	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.035	0.27	0.035	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.015	0.27	0.015	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.034	0.27	0.034	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.033	0.27	0.033	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.011	0.27	0.011	mg/kg dry	1	"	"	"	"	
Styrene	<0.044	0.27	0.044	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.020	0.27	0.020	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.038	0.27	0.038	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.11	2.2	0.11	mg/kg dry	1	"	"	"	"	
Toluene	<0.031	0.27	0.031	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.024	0.27	0.024	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.038	0.27	0.038	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.044	0.27	0.044	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.035	0.27	0.035	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.025	0.27	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	97.4			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	93.6			80-120 %		"	"	"	"	

SOC3-TT7-0.5-1' (0902797-02) Soil Sampled: 06/08/09 13:00 Received: 06/10/09 11:00										
1,1,1,2-Tetrachloroethane	<0.027	0.26	0.027	mg/kg dry	1	B9F1511	06/15/09	06/15/09	EPA 8260B	
1,1,1-Trichloroethane	<0.035	0.26	0.035	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.039	0.26	0.039	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.068	0.26	0.068	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902797 Date Reported: 06/25/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT7-0.5-1' (0902797-02) Soil Sampled: 06/08/09 13:00 Received: 06/10/09 11:00										
1,1-Dichloroethane	<0.025	0.26	0.025	mg/kg dry	1	B9F1511	06/15/09	06/15/09	EPA 8260B	
1,1-Dichloroethene	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.028	0.26	0.028	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.069	0.52	0.069	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.055	0.26	0.055	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.067	0.52	0.067	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.021	0.26	0.021	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.060	0.52	0.060	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.040	0.26	0.040	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.028	0.26	0.028	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.029	0.26	0.029	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.016	0.26	0.016	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.029	0.26	0.029	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.018	0.26	0.018	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.019	0.26	0.019	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.071	0.52	0.071	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.13	2.1	0.13	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.019	0.26	0.019	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.030	0.26	0.030	mg/kg dry	1	"	"	"	"	
Acetone	<0.33	2.1	0.33	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.070	0.52	0.070	mg/kg dry	1	"	"	"	"	
Benzene	<0.016	0.26	0.016	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.020	0.26	0.020	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.037	0.26	0.037	mg/kg dry	1	"	"	"	"	
Bromoform	<0.084	0.52	0.084	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.15	0.52	0.15	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.028	0.26	0.028	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.076	0.26	0.076	mg/kg dry	1	"	"	"	"	
Chloroform	<0.044	0.26	0.044	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.043	0.26	0.043	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.048	0.26	0.048	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.024	0.26	0.024	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.033	0.26	0.033	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.048	0.26	0.048	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.086	0.52	0.086	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.046	0.26	0.046	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902797 Date Reported: 06/25/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT7-0.5-1' (0902797-02) Soil Sampled: 06/08/09 13:00 Received: 06/10/09 11:00										
Ethyl ether	<0.050	0.52	0.050	mg/kg dry	1	B9F1511	06/15/09	06/15/09	EPA 8260B	
Ethylbenzene	<0.023	0.26	0.023	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.14	1.0	0.14	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.024	0.26	0.024	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.092	0.52	0.092	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.096	0.52	0.096	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.018	0.26	0.018	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.18	1.0	0.18	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.068	0.52	0.068	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.033	0.26	0.033	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.015	0.26	0.015	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.032	0.26	0.032	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.031	0.26	0.031	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.010	0.26	0.010	mg/kg dry	1	"	"	"	"	
Styrene	<0.042	0.26	0.042	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.019	0.26	0.019	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.037	0.26	0.037	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.10	2.1	0.10	mg/kg dry	1	"	"	"	"	
Toluene	<0.029	0.26	0.029	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.023	0.26	0.023	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.037	0.26	0.037	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.042	0.26	0.042	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.033	0.26	0.033	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.024	0.26	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	98.5			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	93.7			80-120 %		"	"	"	"	

SOC3-TT1-1-2' (0902797-03) Soil Sampled: 06/09/09 10:00 Received: 06/10/09 11:00										
1,1,1,2-Tetrachloroethane	<0.027	0.26	0.027	mg/kg dry	1	B9F1511	06/15/09	06/15/09	EPA 8260B	
1,1,1-Trichloroethane	<0.034	0.26	0.034	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.039	0.26	0.039	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.068	0.26	0.068	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.025	0.26	0.025	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.028	0.26	0.028	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.069	0.52	0.069	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.055	0.26	0.055	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT1-1-2' (0902797-03) Soil Sampled: 06/09/09 10:00 Received: 06/10/09 11:00										
1,2,4-Trichlorobenzene	<0.067	0.52	0.067	mg/kg dry	1	B9F1511	06/15/09	06/15/09	EPA 8260B	
1,2,4-Trimethylbenzene	<0.021	0.26	0.021	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.060	0.52	0.060	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.040	0.26	0.040	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.028	0.26	0.028	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.029	0.26	0.029	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.016	0.26	0.016	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.029	0.26	0.029	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.018	0.26	0.018	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.019	0.26	0.019	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.071	0.52	0.071	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.13	2.1	0.13	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.019	0.26	0.019	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.030	0.26	0.030	mg/kg dry	1	"	"	"	"	
Acetone	<0.33	2.1	0.33	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.070	0.52	0.070	mg/kg dry	1	"	"	"	"	
Benzene	<0.016	0.26	0.016	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.020	0.26	0.020	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.037	0.26	0.037	mg/kg dry	1	"	"	"	"	
Bromoform	<0.084	0.52	0.084	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.15	0.52	0.15	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.028	0.26	0.028	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.076	0.26	0.076	mg/kg dry	1	"	"	"	"	
Chloroform	<0.044	0.26	0.044	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.043	0.26	0.043	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.048	0.26	0.048	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.024	0.26	0.024	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.033	0.26	0.033	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.048	0.26	0.048	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.086	0.52	0.086	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.046	0.26	0.046	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.050	0.52	0.050	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.023	0.26	0.023	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.14	1.0	0.14	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.024	0.26	0.024	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.092	0.52	0.092	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT1-1-2' (0902797-03) Soil Sampled: 06/09/09 10:00 Received: 06/10/09 11:00										
Methyl isobutyl ketone	<0.096	0.52	0.096	mg/kg dry	1	B9F1511	06/15/09	06/15/09	EPA 8260B	
Methyl tert-butyl ether	<0.018	0.26	0.018	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.18	1.0	0.18	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.068	0.52	0.068	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.033	0.26	0.033	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.015	0.26	0.015	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.032	0.26	0.032	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.031	0.26	0.031	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.010	0.26	0.010	mg/kg dry	1	"	"	"	"	
Styrene	<0.042	0.26	0.042	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.019	0.26	0.019	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.037	0.26	0.037	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.10	2.1	0.10	mg/kg dry	1	"	"	"	"	
Toluene	<0.029	0.26	0.029	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.023	0.26	0.023	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.037	0.26	0.037	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.042	0.26	0.042	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.033	0.26	0.033	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.024	0.26	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	98.0			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	96.2			80-120 %		"	"	"	"	

SOC3-TT1S-3-4' (0902797-04) Soil Sampled: 06/09/09 10:30 Received: 06/10/09 11:00										
1,1,1,2-Tetrachloroethane	<0.026	0.25	0.026	mg/kg dry	1	B9F1511	06/15/09	06/15/09	EPA 8260B	
1,1,1-Trichloroethane	<0.033	0.25	0.033	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.025	0.25	0.025	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.037	0.25	0.037	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.065	0.25	0.065	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.024	0.25	0.024	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.025	0.25	0.025	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.027	0.25	0.027	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.066	0.50	0.066	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.053	0.25	0.053	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.064	0.50	0.064	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.020	0.25	0.020	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.057	0.50	0.057	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.038	0.25	0.038	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.027	0.25	0.027	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT1S-3-4' (0902797-04) Soil Sampled: 06/09/09 10:30 Received: 06/10/09 11:00										
1,2-Dichloroethane	<0.025	0.25	0.025	mg/kg dry	1	B9F1511	06/15/09	06/15/09	EPA 8260B	
1,2-Dichloropropane	<0.028	0.25	0.028	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.015	0.25	0.015	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.028	0.25	0.028	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.017	0.25	0.017	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.018	0.25	0.018	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.068	0.50	0.068	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.12	2.0	0.12	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.018	0.25	0.018	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.029	0.25	0.029	mg/kg dry	1	"	"	"	"	
Acetone	<0.32	2.0	0.32	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.067	0.50	0.067	mg/kg dry	1	"	"	"	"	
Benzene	<0.015	0.25	0.015	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.019	0.25	0.019	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.025	0.25	0.025	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.035	0.25	0.035	mg/kg dry	1	"	"	"	"	
Bromoform	<0.080	0.50	0.080	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.14	0.50	0.14	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.027	0.25	0.027	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.025	0.25	0.025	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.073	0.25	0.073	mg/kg dry	1	"	"	"	"	
Chloroform	<0.042	0.25	0.042	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.041	0.25	0.041	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.046	0.25	0.046	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.023	0.25	0.023	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.032	0.25	0.032	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.046	0.25	0.046	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.082	0.50	0.082	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.044	0.25	0.044	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.048	0.50	0.048	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.022	0.25	0.022	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.13	1.0	0.13	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.023	0.25	0.023	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.088	0.50	0.088	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.092	0.50	0.092	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.017	0.25	0.017	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.17	1.0	0.17	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.065	0.50	0.065	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.032	0.25	0.032	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT1S-3-4' (0902797-04) Soil Sampled: 06/09/09 10:30 Received: 06/10/09 11:00										
n-Propylbenzene	<0.014	0.25	0.014	mg/kg dry	1	B9F1511	06/15/09	06/15/09	EPA 8260B	
o-Xylene	<0.031	0.25	0.031	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.030	0.25	0.030	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.010	0.25	0.010	mg/kg dry	1	"	"	"	"	
Styrene	<0.040	0.25	0.040	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.018	0.25	0.018	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.035	0.25	0.035	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.10	2.0	0.10	mg/kg dry	1	"	"	"	"	
Toluene	<0.028	0.25	0.028	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.022	0.25	0.022	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.035	0.25	0.035	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.040	0.25	0.040	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.032	0.25	0.032	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.023	0.25	0.023	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	96.8			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	94.8			80-120 %		"	"	"	"	

SOC3-TT1S-5' (0902797-05) Soil Sampled: 06/09/09 10:45 Received: 06/10/09 11:00										
1,1,1,2-Tetrachloroethane	<0.025	0.24	0.025	mg/kg dry	1	B9F1511	06/15/09	06/15/09	EPA 8260B	
1,1,1-Trichloroethane	<0.032	0.24	0.032	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.024	0.24	0.024	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.035	0.24	0.035	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.062	0.24	0.062	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.023	0.24	0.023	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.024	0.24	0.024	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.026	0.24	0.026	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.063	0.48	0.063	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.051	0.24	0.051	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.061	0.48	0.061	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.019	0.24	0.019	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.055	0.48	0.055	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.036	0.24	0.036	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.026	0.24	0.026	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.024	0.24	0.024	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.027	0.24	0.027	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.014	0.24	0.014	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.24	0.027	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.016	0.24	0.016	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902797 Date Reported: 06/25/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT1S-5' (0902797-05) Soil Sampled: 06/09/09 10:45 Received: 06/10/09 11:00										
1,4-Dichlorobenzene	<0.017	0.24	0.017	mg/kg dry	1	B9F1511	06/15/09	06/15/09	EPA 8260B	
2,2-Dichloropropane	<0.065	0.48	0.065	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.11	1.9	0.11	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.017	0.24	0.017	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.028	0.24	0.028	mg/kg dry	1	"	"	"	"	
Acetone	<0.31	1.9	0.31	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.064	0.48	0.064	mg/kg dry	1	"	"	"	"	
Benzene	<0.014	0.24	0.014	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.018	0.24	0.018	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.024	0.24	0.024	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.034	0.24	0.034	mg/kg dry	1	"	"	"	"	
Bromoform	<0.077	0.48	0.077	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.13	0.48	0.13	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.026	0.24	0.026	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.024	0.24	0.024	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.070	0.24	0.070	mg/kg dry	1	"	"	"	"	
Chloroform	<0.040	0.24	0.040	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.039	0.24	0.039	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.044	0.24	0.044	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.022	0.24	0.022	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.031	0.24	0.031	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.044	0.24	0.044	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.078	0.48	0.078	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.042	0.24	0.042	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.046	0.48	0.046	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.021	0.24	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.12	0.96	0.12	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.022	0.24	0.022	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.084	0.48	0.084	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.088	0.48	0.088	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.016	0.24	0.016	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.16	0.96	0.16	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.062	0.48	0.062	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.031	0.24	0.031	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.013	0.24	0.013	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.030	0.24	0.030	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.029	0.24	0.029	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.0096	0.24	0.0096	mg/kg dry	1	"	"	"	"	
Styrene	<0.038	0.24	0.038	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902797 Date Reported: 06/25/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT1S-5' (0902797-05) Soil Sampled: 06/09/09 10:45 Received: 06/10/09 11:00										
tert-Butylbenzene	<0.017	0.24	0.017	mg/kg dry	1	B9F1511	06/15/09	06/15/09	EPA 8260B	
Tetrachloroethene	<0.034	0.24	0.034	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.096	1.9	0.096	mg/kg dry	1	"	"	"	"	
Toluene	<0.027	0.24	0.027	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.021	0.24	0.021	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.034	0.24	0.034	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.038	0.24	0.038	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.031	0.24	0.031	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.022	0.24	0.022	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	98.9			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	96.4			80-120 %		"	"	"	"	

SOC3-TT2-5' (0902797-06) Soil Sampled: 06/09/09 14:00 Received: 06/10/09 11:00										
1,1,1,2-Tetrachloroethane	<0.024	0.23	0.024	mg/kg dry	1	B9F1511	06/15/09	06/15/09	EPA 8260B	
1,1,1-Trichloroethane	<0.031	0.23	0.031	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.023	0.23	0.023	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.034	0.23	0.034	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.061	0.23	0.061	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.022	0.23	0.022	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.023	0.23	0.023	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.025	0.23	0.025	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.061	0.47	0.061	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.049	0.23	0.049	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.060	0.47	0.060	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.019	0.23	0.019	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.053	0.47	0.053	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.035	0.23	0.035	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.025	0.23	0.025	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.023	0.23	0.023	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.026	0.23	0.026	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.014	0.23	0.014	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.23	0.026	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.016	0.23	0.016	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.017	0.23	0.017	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.063	0.47	0.063	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.11	1.9	0.11	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.017	0.23	0.017	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.027	0.23	0.027	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT2-5' (0902797-06) Soil Sampled: 06/09/09 14:00 Received: 06/10/09 11:00										
Acetone	<0.30	1.9	0.30	mg/kg dry	1	B9F1511	06/15/09	06/15/09	EPA 8260B	
Allyl chloride	<0.062	0.47	0.062	mg/kg dry	1	"	"	"	"	
Benzene	<0.014	0.23	0.014	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.018	0.23	0.018	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.023	0.23	0.023	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.033	0.23	0.033	mg/kg dry	1	"	"	"	"	
Bromoform	<0.074	0.47	0.074	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.13	0.47	0.13	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.025	0.23	0.025	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.023	0.23	0.023	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.068	0.23	0.068	mg/kg dry	1	"	"	"	"	
Chloroform	<0.039	0.23	0.039	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.038	0.23	0.038	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.043	0.23	0.043	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.021	0.23	0.021	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.030	0.23	0.030	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.043	0.23	0.043	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.076	0.47	0.076	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.041	0.23	0.041	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.045	0.47	0.045	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.020	0.23	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.12	0.93	0.12	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.021	0.23	0.021	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.082	0.47	0.082	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.086	0.47	0.086	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.016	0.23	0.016	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.16	0.93	0.16	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.061	0.47	0.061	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.030	0.23	0.030	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.013	0.23	0.013	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.029	0.23	0.029	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.028	0.23	0.028	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.0093	0.23	0.0093	mg/kg dry	1	"	"	"	"	
Styrene	<0.037	0.23	0.037	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.017	0.23	0.017	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.033	0.23	0.033	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.093	1.9	0.093	mg/kg dry	1	"	"	"	"	
Toluene	<0.026	0.23	0.026	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.020	0.23	0.020	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT2-5' (0902797-06) Soil Sampled: 06/09/09 14:00 Received: 06/10/09 11:00										
trans-1,3-Dichloropropene	<0.033	0.23	0.033	mg/kg dry	1	B9F1511	06/15/09	06/15/09	EPA 8260B	
Trichloroethene	<0.037	0.23	0.037	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.030	0.23	0.030	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.021	0.23	0.021	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	99.0			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	96.7			80-120 %		"	"	"	"	

SOC3-TT2-3-4' (0902797-07) Soil Sampled: 06/09/09 14:30 Received: 06/10/09 11:00										
1,1,1,2-Tetrachloroethane	<0.026	0.25	0.026	mg/kg dry	1	B9F1511	06/15/09	06/15/09	EPA 8260B	
1,1,1-Trichloroethane	<0.034	0.25	0.034	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.025	0.25	0.025	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.038	0.25	0.038	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.066	0.25	0.066	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.024	0.25	0.024	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.025	0.25	0.025	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.028	0.25	0.028	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.067	0.51	0.067	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.054	0.25	0.054	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.065	0.51	0.065	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.020	0.25	0.020	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.058	0.51	0.058	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.039	0.25	0.039	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.028	0.25	0.028	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.025	0.25	0.025	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.029	0.25	0.029	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.015	0.25	0.015	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.029	0.25	0.029	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.017	0.25	0.017	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.018	0.25	0.018	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.069	0.51	0.069	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.12	2.0	0.12	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.018	0.25	0.018	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.030	0.25	0.030	mg/kg dry	1	"	"	"	"	
Acetone	<0.33	2.0	0.33	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.068	0.51	0.068	mg/kg dry	1	"	"	"	"	
Benzene	<0.015	0.25	0.015	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.019	0.25	0.019	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.025	0.25	0.025	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT2-3-4' (0902797-07) Soil Sampled: 06/09/09 14:30 Received: 06/10/09 11:00										
Bromodichloromethane	<0.036	0.25	0.036	mg/kg dry	1	B9F1511	06/15/09	06/15/09	EPA 8260B	
Bromoform	<0.081	0.51	0.081	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.14	0.51	0.14	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.028	0.25	0.028	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.025	0.25	0.025	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.074	0.25	0.074	mg/kg dry	1	"	"	"	"	
Chloroform	<0.043	0.25	0.043	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.042	0.25	0.042	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.047	0.25	0.047	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.023	0.25	0.023	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.033	0.25	0.033	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.047	0.25	0.047	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.084	0.51	0.084	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.045	0.25	0.045	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.049	0.51	0.049	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.022	0.25	0.022	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.13	1.0	0.13	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.023	0.25	0.023	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.090	0.51	0.090	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.094	0.51	0.094	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.017	0.25	0.017	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.17	1.0	0.17	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.066	0.51	0.066	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.033	0.25	0.033	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.014	0.25	0.014	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.032	0.25	0.032	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.031	0.25	0.031	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.010	0.25	0.010	mg/kg dry	1	"	"	"	"	
Styrene	<0.041	0.25	0.041	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.018	0.25	0.018	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.036	0.25	0.036	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.10	2.0	0.10	mg/kg dry	1	"	"	"	"	
Toluene	<0.029	0.25	0.029	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.022	0.25	0.022	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.036	0.25	0.036	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.041	0.25	0.041	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.033	0.25	0.033	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.023	0.25	0.023	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101			80-120 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT2-3-4' (0902797-07) Soil Sampled: 06/09/09 14:30 Received: 06/10/09 11:00										
Surrogate: Dibromofluoromethane	99.1			80-120 %		B9F1511	06/15/09	06/15/09	EPA 8260B	
Surrogate: Toluene-d8	97.6			80-120 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1806 - EPA 3050B

Blank (B9F1806-BLK1)

Prepared: 06/18/09 Analyzed: 06/24/09

Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							

LCS (B9F1806-BS1)

Prepared: 06/18/09 Analyzed: 06/24/09

Antimony	40.1	0.50	0.0055	mg/kg wet	39.9		101	80-120			
Arsenic	42.4	0.50	0.10	mg/kg wet	39.9		106	80-120			
Beryllium	4.34	0.25	0.011	mg/kg wet	3.99		109	80-120			
Cadmium	44.9	0.25	0.025	mg/kg wet	39.9		112	80-120			
Chromium	44.2	0.50	0.012	mg/kg wet	39.9		111	80-120			
Copper	42.7	1.0	0.070	mg/kg wet	39.9		107	80-120			
Lead	44.6	1.0	0.034	mg/kg wet	39.9		112	80-120			
Nickel	44.3	0.50	0.014	mg/kg wet	39.9		111	80-120			
Selenium	41.1	1.0	0.11	mg/kg wet	39.9		103	80-120			
Silver	3.98	0.25	0.0090	mg/kg wet	3.99		99.8	80-120			
Thallium	44.7	2.0	0.13	mg/kg wet	39.9		112	80-120			
Zinc	43.5	1.0	0.22	mg/kg wet	39.9		109	80-120			

LCS Dup (B9F1806-BSD1)

Prepared: 06/18/09 Analyzed: 06/24/09

Antimony	39.6	0.50	0.0055	mg/kg wet	39.9		99.3	80-120	1.28	20	
Arsenic	41.4	0.50	0.10	mg/kg wet	39.9		104	80-120	2.53	20	
Beryllium	4.22	0.25	0.011	mg/kg wet	3.99		106	80-120	2.71	20	
Cadmium	43.8	0.25	0.025	mg/kg wet	39.9		110	80-120	2.48	20	
Chromium	43.1	0.50	0.012	mg/kg wet	39.9		108	80-120	2.45	20	
Copper	42.1	1.0	0.070	mg/kg wet	39.9		105	80-120	1.56	20	
Lead	43.5	1.0	0.034	mg/kg wet	39.9		109	80-120	2.34	20	
Nickel	43.3	0.50	0.014	mg/kg wet	39.9		108	80-120	2.43	20	
Selenium	40.2	1.0	0.11	mg/kg wet	39.9		101	80-120	2.11	20	
Silver	3.86	0.25	0.0090	mg/kg wet	3.99		96.8	80-120	3.03	20	
Thallium	43.7	2.0	0.13	mg/kg wet	39.9		110	80-120	2.36	20	
Zinc	42.6	1.0	0.22	mg/kg wet	39.9		107	80-120	2.12	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1806 - EPA 3050B

Matrix Spike (B9F1806-MS1)

Source: 0902797-01

Prepared: 06/18/09

Analyzed: 06/24/09

Antimony	35.5	0.58	0.0064	mg/kg dry	46.4	<0.58	75.9	75-125			
Arsenic	44.3	0.58	0.12	mg/kg dry	46.4	6.43	81.5	75-125			
Beryllium	4.32	0.29	0.013	mg/kg dry	4.64	0.402	84.5	75-125			
Cadmium	39.1	0.29	0.029	mg/kg dry	46.4	<0.29	84.0	75-125			
Chromium	53.7	0.58	0.014	mg/kg dry	46.4	15.1	83.3	75-125			
Copper	48.2	1.2	0.081	mg/kg dry	46.4	8.87	84.8	75-125			
Lead	47.9	1.2	0.040	mg/kg dry	46.4	9.21	83.4	75-125			
Nickel	51.2	0.58	0.016	mg/kg dry	46.4	13.3	81.8	75-125			
Selenium	36.8	1.2	0.13	mg/kg dry	46.4	<1.2	79.3	75-125			
Silver	3.94	0.29	0.010	mg/kg dry	4.64	<0.29	84.9	75-125			
Thallium	37.0	2.3	0.15	mg/kg dry	46.4	<2.3	79.8	75-125			
Zinc	78.1	1.2	0.26	mg/kg dry	46.4	39.3	83.5	75-125			

Matrix Spike Dup (B9F1806-MSD1)

Source: 0902797-01

Prepared: 06/18/09

Analyzed: 06/24/09

Antimony	37.4	0.58	0.0064	mg/kg dry	46.4	<0.58	80.1	75-125	5.34	20	
Arsenic	45.9	0.58	0.12	mg/kg dry	46.4	6.43	85.0	75-125	3.58	20	
Beryllium	4.47	0.29	0.013	mg/kg dry	4.64	0.402	87.7	75-125	3.42	20	
Cadmium	40.6	0.29	0.029	mg/kg dry	46.4	<0.29	87.0	75-125	3.53	20	
Chromium	55.5	0.58	0.014	mg/kg dry	46.4	15.1	87.1	75-125	3.26	20	
Copper	49.7	1.2	0.081	mg/kg dry	46.4	8.87	88.1	75-125	3.07	20	
Lead	49.1	1.2	0.040	mg/kg dry	46.4	9.21	86.0	75-125	2.55	20	
Nickel	52.8	0.58	0.016	mg/kg dry	46.4	13.3	85.2	75-125	3.07	20	
Selenium	38.2	1.2	0.13	mg/kg dry	46.4	<1.2	82.2	75-125	3.63	20	
Silver	4.08	0.29	0.010	mg/kg dry	4.64	<0.29	87.8	75-125	3.45	20	
Thallium	38.6	2.3	0.15	mg/kg dry	46.4	<2.3	83.1	75-125	4.04	20	
Zinc	79.0	1.2	0.26	mg/kg dry	46.4	39.3	85.6	75-125	1.21	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902797 Date Reported: 06/25/09
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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1811 - EPA 7471A											
Blank (B9F1811-BLK1)											
Mercury	< 0.10	0.10	0.0031	mg/kg wet							Prepared: 06/18/09 Analyzed: 06/23/09
LCS (B9F1811-BS1)											
Mercury	0.214	0.10	0.0031	mg/kg wet	0.200		107	80-120			Prepared: 06/18/09 Analyzed: 06/23/09
LCS Dup (B9F1811-BSD1)											
Mercury	0.209	0.10	0.0031	mg/kg wet	0.200		104	80-120	2.36	20	Prepared: 06/18/09 Analyzed: 06/23/09
Matrix Spike (B9F1811-MS1)											
	Source: 0902796-01					Prepared: 06/18/09 Analyzed: 06/23/09					
Mercury	0.219	0.11	0.0034	mg/kg dry	0.220	<0.11	99.5	75-125			
Matrix Spike Dup (B9F1811-MSD1)											
	Source: 0902796-01					Prepared: 06/18/09 Analyzed: 06/23/09					
Mercury	0.201	0.11	0.0034	mg/kg dry	0.220	<0.11	91.5	75-125	8.38	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1705 - General Preparation											
Duplicate (B9F1705-DUP1)	Source: 0902814-03		Prepared & Analyzed: 06/17/09								
% Solids	83.0			%		83.0			0.00	20	
Duplicate (B9F1705-DUP2)	Source: 0902852-07		Prepared & Analyzed: 06/17/09								
% Solids	81.0			%		81.0			0.00	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1515 - EPA 3545 ASE Extraction

Blank (B9F1515-BLK1)

Prepared: 06/15/09 Analyzed: 06/16/09

4,4'-DDD	< 0.040	0.040	0.0012	mg/kg wet							
4,4'-DDE	< 0.040	0.040	0.0013	mg/kg wet							
4,4'-DDT	< 0.040	0.040	0.0015	mg/kg wet							
a-Chlordane	< 0.040	0.040	0.0014	mg/kg wet							
Aldrin	< 0.040	0.040	0.0012	mg/kg wet							
alpha-BHC	< 0.040	0.040	0.0015	mg/kg wet							
beta-BHC	< 0.040	0.040	0.0016	mg/kg wet							
delta-BHC	< 0.040	0.040	0.0017	mg/kg wet							
Dieldrin	< 0.040	0.040	0.0014	mg/kg wet							
Endosulfan I	< 0.040	0.040	0.0015	mg/kg wet							
Endosulfan II	< 0.040	0.040	0.0015	mg/kg wet							
Endosulfan sulfate	< 0.040	0.040	0.0015	mg/kg wet							
Endrin	< 0.040	0.040	0.0014	mg/kg wet							
Endrin aldehyde	< 0.040	0.040	0.0015	mg/kg wet							
Endrin ketone	< 0.040	0.040	0.0014	mg/kg wet							
gamma-BHC (Lindane)	< 0.040	0.040	0.0014	mg/kg wet							
gamma-Chlordane	< 0.040	0.040	0.0014	mg/kg wet							
Heptachlor	< 0.040	0.040	0.0015	mg/kg wet							
Heptachlor epoxide	< 0.040	0.040	0.0015	mg/kg wet							
Methoxychlor	< 0.040	0.040	0.0015	mg/kg wet							
Toxaphene	< 0.080	0.080	0.0061	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0627			mg/kg wet	0.0667		94.0	83.7-130			
Surrogate: Tetrachloro-meta-xylene	0.0617			mg/kg wet	0.0667		92.5	65.2-135			

LCS (B9F1515-BS1)

Prepared: 06/15/09 Analyzed: 06/16/09

4,4'-DDD	0.0763	0.040	0.0012	mg/kg wet	0.0833		91.6	70-130			
4,4'-DDE	0.0790	0.040	0.0013	mg/kg wet	0.0833		94.8	70-130			
4,4'-DDT	0.0840	0.040	0.0015	mg/kg wet	0.0833		101	70-130			
a-Chlordane	0.0777	0.040	0.0014	mg/kg wet	0.0833		93.2	70-130			
Aldrin	0.0777	0.040	0.0012	mg/kg wet	0.0833		93.2	70-130			
alpha-BHC	0.0790	0.040	0.0015	mg/kg wet	0.0833		94.8	70-130			
beta-BHC	0.0760	0.040	0.0016	mg/kg wet	0.0833		91.2	70-130			
delta-BHC	0.0803	0.040	0.0017	mg/kg wet	0.0833		96.4	70-130			
Dieldrin	0.0773	0.040	0.0014	mg/kg wet	0.0833		92.8	70-130			
Endosulfan I	0.0777	0.040	0.0015	mg/kg wet	0.0833		93.2	70-130			
Endosulfan II	0.0773	0.040	0.0015	mg/kg wet	0.0833		92.8	70-130			
Endosulfan sulfate	0.0777	0.040	0.0015	mg/kg wet	0.0833		93.2	70-130			
Endrin	0.0803	0.040	0.0014	mg/kg wet	0.0833		96.4	70-130			
Endrin aldehyde	0.0687	0.040	0.0015	mg/kg wet	0.0833		82.4	70-130			
Endrin ketone	0.0770	0.040	0.0014	mg/kg wet	0.0833		92.4	70-130			

Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Project: 23/19-0B05.07
Project Number: 23/19-0B05SOC 350
Project Manager: Ms. Kelly Neppi

Work Order #: 0902797
Date Reported: 06/25/09

PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1515 - EPA 3545 ASE Extraction

LCS (B9F1515-BS1)

Prepared: 06/15/09 Analyzed: 06/16/09

gamma-BHC (Lindane)	0.0790	0.040	0.0014	mg/kg wet	0.0833		94.8	70-130			
gamma-Chlordane	0.0760	0.040	0.0014	mg/kg wet	0.0833		91.2	70-130			
Heptachlor	0.0780	0.040	0.0015	mg/kg wet	0.0833		93.6	70-130			
Heptachlor epoxide	0.0777	0.040	0.0015	mg/kg wet	0.0833		93.2	70-130			
Methoxychlor	0.0837	0.040	0.0015	mg/kg wet	0.0833		100	70-130			
Surrogate: Decachlorobiphenyl	0.0640			mg/kg wet	0.0667		96.0	83.7-130			
Surrogate: Tetrachloro-meta-xylene	0.0627			mg/kg wet	0.0667		94.0	65.2-135			

Matrix Spike (B9F1515-MS1)

Source: 0902757-05

Prepared: 06/15/09 Analyzed: 06/17/09

4,4'-DDD	0.0999	0.050	0.0015	mg/kg dry	0.104	<0.050	96.0	70-130			
4,4'-DDE	0.110	0.050	0.0016	mg/kg dry	0.104	<0.050	99.2	70-130			
4,4'-DDT	0.123	0.050	0.0019	mg/kg dry	0.104	<0.050	98.8	70-130			
a-Chlordane	0.101	0.050	0.0018	mg/kg dry	0.104	<0.050	97.2	70-130			
Aldrin	0.0999	0.050	0.0015	mg/kg dry	0.104	<0.050	96.0	70-130			
alpha-BHC	0.100	0.050	0.0019	mg/kg dry	0.104	<0.050	96.4	70-130			
beta-BHC	0.0991	0.050	0.0020	mg/kg dry	0.104	<0.050	95.2	70-130			
delta-BHC	0.105	0.050	0.0021	mg/kg dry	0.104	<0.050	101	70-130			
Dieldrin	0.102	0.050	0.0018	mg/kg dry	0.104	<0.050	98.4	70-130			
Endosulfan I	0.101	0.050	0.0019	mg/kg dry	0.104	<0.050	96.8	70-130			
Endosulfan II	0.0999	0.050	0.0019	mg/kg dry	0.104	<0.050	96.0	70-130			
Endosulfan sulfate	0.101	0.050	0.0019	mg/kg dry	0.104	<0.050	97.2	70-130			
Endrin	0.104	0.050	0.0018	mg/kg dry	0.104	<0.050	100	70-130			
Endrin aldehyde	0.0870	0.050	0.0019	mg/kg dry	0.104	<0.050	83.6	70-130			
Endrin ketone	0.100	0.050	0.0018	mg/kg dry	0.104	<0.050	96.4	70-130			
gamma-BHC (Lindane)	0.102	0.050	0.0018	mg/kg dry	0.104	<0.050	97.6	70-130			
gamma-Chlordane	0.0991	0.050	0.0018	mg/kg dry	0.104	<0.050	95.2	70-130			
Heptachlor	0.0991	0.050	0.0019	mg/kg dry	0.104	<0.050	95.2	70-130			
Heptachlor epoxide	0.101	0.050	0.0019	mg/kg dry	0.104	<0.050	96.8	70-130			
Methoxychlor	0.114	0.050	0.0019	mg/kg dry	0.104	<0.050	110	70-130			
Surrogate: Decachlorobiphenyl	0.0799			mg/kg dry	0.0833		96.0	83.7-130			
Surrogate: Tetrachloro-meta-xylene	0.0770			mg/kg dry	0.0833		92.5	65.2-135			

Matrix Spike Dup (B9F1515-MSD1)

Source: 0902757-05

Prepared: 06/15/09 Analyzed: 06/17/09

4,4'-DDD	0.0942	0.050	0.0015	mg/kg dry	0.104	<0.050	90.4	70-130	5.88	17.3	
4,4'-DDE	0.105	0.050	0.0016	mg/kg dry	0.104	<0.050	94.8	70-130	4.12	18.9	
4,4'-DDT	0.118	0.050	0.0019	mg/kg dry	0.104	<0.050	93.3	70-130	4.71	37.6	
a-Chlordane	0.0959	0.050	0.0018	mg/kg dry	0.104	<0.050	92.0	70-130	5.36	17.2	
Aldrin	0.0946	0.050	0.0015	mg/kg dry	0.104	<0.050	90.8	70-130	5.43	26.6	
alpha-BHC	0.0951	0.050	0.0019	mg/kg dry	0.104	<0.050	91.2	70-130	5.41	27.3	
beta-BHC	0.0942	0.050	0.0020	mg/kg dry	0.104	<0.050	90.4	70-130	5.04	24.7	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902797 Date Reported: 06/25/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1515 - EPA 3545 ASE Extraction											
Matrix Spike Dup (B9F1515-MSD1)			Source: 0902757-05			Prepared: 06/15/09			Analyzed: 06/17/09		
delta-BHC	0.100	0.050	0.0021	mg/kg dry	0.104	<0.050	96.0	70-130	5.14	25.9	
Dieldrin	0.0984	0.050	0.0018	mg/kg dry	0.104	<0.050	94.4	70-130	4.02	24.6	
Endosulfan I	0.0955	0.050	0.0019	mg/kg dry	0.104	<0.050	91.6	70-130	5.39	18.2	
Endosulfan II	0.0951	0.050	0.0019	mg/kg dry	0.104	<0.050	91.2	70-130	4.99	16.6	
Endosulfan sulfate	0.0980	0.050	0.0019	mg/kg dry	0.104	<0.050	94.0	70-130	3.21	16.5	
Endrin	0.0992	0.050	0.0018	mg/kg dry	0.104	<0.050	95.2	70-130	4.78	18.9	
Endrin aldehyde	0.0830	0.050	0.0019	mg/kg dry	0.104	<0.050	79.6	70-130	4.77	17.9	
Endrin ketone	0.0955	0.050	0.0018	mg/kg dry	0.104	<0.050	91.6	70-130	4.97	15.7	
gamma-BHC (Lindane)	0.0963	0.050	0.0018	mg/kg dry	0.104	<0.050	92.4	70-130	5.34	27	
gamma-Chlordane	0.0942	0.050	0.0018	mg/kg dry	0.104	<0.050	90.4	70-130	5.04	20	
Heptachlor	0.0946	0.050	0.0019	mg/kg dry	0.104	<0.050	90.8	70-130	4.60	20.3	
Heptachlor epoxide	0.0959	0.050	0.0019	mg/kg dry	0.104	<0.050	92.0	70-130	4.95	26.2	
Methoxychlor	0.108	0.050	0.0019	mg/kg dry	0.104	<0.050	104	70-130	5.11	20.2	
Surrogate: Decachlorobiphenyl	0.0759			mg/kg dry	0.0834		91.0	83.7-130			
Surrogate: Tetrachloro-meta-xylene	0.0738			mg/kg dry	0.0834		88.5	65.2-135			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppl	Work Order #: 0902797 Date Reported: 06/25/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1703 - EPA 3545 ASE Extraction

Blank (B9F1703-BLK1)

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3'-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902797 Date Reported: 06/25/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1703 - EPA 3545 ASE Extraction

Blank (B9F1703-BLK1)

Prepared: 06/17/09 Analyzed: 06/18/09

Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	4.20			mg/kg wet	6.67		63.0	47.2-108			
Surrogate: 2-Fluorobiphenyl	3.98			mg/kg wet	6.67		59.7	53.2-85.1			
Surrogate: 2-Fluorophenol	3.94			mg/kg wet	6.67		59.1	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.01			mg/kg wet	6.67		60.1	49.1-86.9			
Surrogate: Phenol-d6	3.99			mg/kg wet	6.67		59.8	47.6-99.6			
Surrogate: Terphenyl-d14	4.32			mg/kg wet	6.67		64.8	43.6-112			

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05SOC 350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902797
 Date Reported: 06/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1703 - EPA 3545 ASE Extraction

LCS (B9F1703-BS1)

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	4.79	0.33	0.027	mg/kg wet	6.67		71.9	50.7-82.1			
1,4-Dichlorobenzene	4.12	0.33	0.024	mg/kg wet	6.67		61.8	44-77			
2,4-Dinitrotoluene	4.48	0.33	0.021	mg/kg wet	6.67		67.1	56.7-81.7			
2-Chlorophenol	4.61	0.67	0.038	mg/kg wet	6.67		69.1	52.3-88.2			
4-Chloro-3-methylphenol	4.75	0.67	0.040	mg/kg wet	6.67		71.3	53.4-87			
4-Nitrophenol	4.96	0.67	0.099	mg/kg wet	6.67		74.5	55.7-87.1			
Anthracene	5.05	0.33	0.025	mg/kg wet	6.67		75.8	65.3-92			
Benzo (a) anthracene	5.28	0.33	0.027	mg/kg wet	6.67		79.3	69-95.3			
Benzo (a) pyrene	5.25	0.33	0.027	mg/kg wet	6.67		78.7	68.5-98.2			
Chrysene	5.18	0.33	0.033	mg/kg wet	6.67		77.7	68.6-94.2			
Fluoranthene	5.10	0.33	0.024	mg/kg wet	6.67		76.5	64.3-94.6			
Fluorene	4.92	0.33	0.018	mg/kg wet	6.67		73.8	61.9-89.4			
N-Nitrosodi-n-propylamine	4.90	0.33	0.025	mg/kg wet	6.67		73.5	55.5-91.1			
Pentachlorophenol	4.84	0.67	0.096	mg/kg wet	6.67		72.5	54.7-74.6			
Phenanthrene	5.04	0.33	0.019	mg/kg wet	6.67		75.7	64.3-90.9			
Phenol	4.46	0.67	0.057	mg/kg wet	6.67		66.9	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	5.07			mg/kg wet	6.67		76.1	47.2-108			
Surrogate: 2-Fluorobiphenyl	4.65			mg/kg wet	6.67		69.7	53.2-85.1			
Surrogate: 2-Fluorophenol	4.63			mg/kg wet	6.67		69.5	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.80			mg/kg wet	6.67		72.0	49.1-86.9			
Surrogate: Phenol-d6	4.92			mg/kg wet	6.67		73.9	47.6-99.6			
Surrogate: Terphenyl-d14	4.65			mg/kg wet	6.67		69.7	43.6-112			

Matrix Spike (B9F1703-MS1)

Source: 0902796-07

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	5.01	0.35	0.029	mg/kg dry	7.09	<0.35	70.7	51-77.5			
1,4-Dichlorobenzene	4.32	0.35	0.026	mg/kg dry	7.09	<0.35	60.9	41.7-73.4			
2,4-Dinitrotoluene	4.69	0.35	0.022	mg/kg dry	7.09	<0.35	66.1	50-84.8			
2-Chlorophenol	4.93	0.71	0.040	mg/kg dry	7.09	<0.71	69.5	47.8-90.8			
4-Chloro-3-methylphenol	5.01	0.71	0.043	mg/kg dry	7.09	<0.71	70.6	48.4-95.1			
4-Nitrophenol	5.77	0.71	0.11	mg/kg dry	7.09	<0.71	81.3	44-105			
Anthracene	5.33	0.35	0.027	mg/kg dry	7.09	<0.35	74.2	60.2-97.3			
Benzo (a) anthracene	5.41	0.35	0.029	mg/kg dry	7.09	<0.35	74.4	59.8-102			
Benzo (a) pyrene	5.22	0.35	0.029	mg/kg dry	7.09	<0.35	72.0	57.2-105			
Chrysene	5.43	0.35	0.035	mg/kg dry	7.09	<0.35	74.5	59.2-102			
Fluoranthene	5.33	0.35	0.026	mg/kg dry	7.09	<0.35	70.5	50.4-108			
Fluorene	5.40	0.35	0.019	mg/kg dry	7.09	<0.35	76.1	57.8-94.4			
N-Nitrosodi-n-propylamine	5.22	0.35	0.027	mg/kg dry	7.09	<0.35	73.6	46.2-96.2			
Pentachlorophenol	5.23	0.71	0.10	mg/kg dry	7.09	<0.71	73.7	53.6-80.4			
Phenanthrene	5.31	0.35	0.020	mg/kg dry	7.09	0.420	68.9	58.4-97.5			
Phenol	4.79	0.71	0.061	mg/kg dry	7.09	<0.71	67.5	44-88.5			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902797 Date Reported: 06/25/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1703 - EPA 3545 ASE Extraction

Matrix Spike (B9F1703-MS1)

Source: 0902796-07

Prepared: 06/17/09 Analyzed: 06/18/09

Surrogate: 2,4,6-Tribromophenol	5.29			mg/kg dry	7.09		74.5	47.2-108			
Surrogate: 2-Fluorobiphenyl	5.12			mg/kg dry	7.09		72.3	53.2-85.1			
Surrogate: 2-Fluorophenol	4.98			mg/kg dry	7.09		70.3	48.5-90.1			
Surrogate: Nitrobenzene-d5	5.24			mg/kg dry	7.09		73.8	49.1-86.9			
Surrogate: Phenol-d6	5.33			mg/kg dry	7.09		75.1	47.6-99.6			
Surrogate: Terphenyl-d14	4.87			mg/kg dry	7.09		68.7	43.6-112			

Matrix Spike Dup (B9F1703-MSD1)

Source: 0902796-07

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	5.01	0.35	0.029	mg/kg dry	7.09	<0.35	70.6	51-77.5	0.0988	15.7	
1,4-Dichlorobenzene	4.35	0.35	0.026	mg/kg dry	7.09	<0.35	61.3	41.7-73.4	0.554	14.7	
2,4-Dinitrotoluene	4.75	0.35	0.022	mg/kg dry	7.09	<0.35	67.0	50-84.8	1.34	20.5	
2-Chlorophenol	4.95	0.71	0.040	mg/kg dry	7.09	<0.71	69.8	47.8-90.8	0.464	19.8	
4-Chloro-3-methylphenol	5.18	0.71	0.043	mg/kg dry	7.09	<0.71	73.0	48.4-95.1	3.35	18.7	
4-Nitrophenol	5.58	0.71	0.11	mg/kg dry	7.09	<0.71	78.6	44-105	3.35	30.9	
Anthracene	5.44	0.35	0.027	mg/kg dry	7.09	<0.35	75.8	60.2-97.3	2.11	15.1	
Benzo (a) anthracene	5.56	0.35	0.029	mg/kg dry	7.09	<0.35	76.5	59.8-102	2.69	19.6	
Benzo (a) pyrene	5.34	0.35	0.029	mg/kg dry	7.09	<0.35	73.7	57.2-105	2.24	19.4	
Chrysene	5.51	0.35	0.035	mg/kg dry	7.09	<0.35	75.6	59.2-102	1.46	19.6	
Fluoranthene	5.33	0.35	0.026	mg/kg dry	7.09	<0.35	70.6	50.4-108	0.0251	21	
Fluorene	5.37	0.35	0.019	mg/kg dry	7.09	<0.35	75.7	57.8-94.4	0.522	15.8	
N-Nitrosodi-n-propylamine	5.21	0.35	0.027	mg/kg dry	7.09	<0.35	73.5	46.2-96.2	0.0968	17.1	
Pentachlorophenol	5.39	0.71	0.10	mg/kg dry	7.09	<0.71	76.0	53.6-80.4	2.97	22.4	
Phenanthrene	5.46	0.35	0.020	mg/kg dry	7.09	0.420	71.1	58.4-97.5	2.89	14.3	
Phenol	4.80	0.71	0.061	mg/kg dry	7.09	<0.71	67.7	44-88.5	0.316	21.5	
Surrogate: 2,4,6-Tribromophenol	5.43			mg/kg dry	7.09		76.5	47.2-108			
Surrogate: 2-Fluorobiphenyl	5.17			mg/kg dry	7.09		72.8	53.2-85.1			
Surrogate: 2-Fluorophenol	5.00			mg/kg dry	7.09		70.5	48.5-90.1			
Surrogate: Nitrobenzene-d5	5.27			mg/kg dry	7.09		74.3	49.1-86.9			
Surrogate: Phenol-d6	5.34			mg/kg dry	7.09		75.2	47.6-99.6			
Surrogate: Terphenyl-d14	5.02			mg/kg dry	7.09		70.8	43.6-112			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppl	Work Order #: 0902797 Date Reported: 06/25/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1801 - EPA 3545 ASE Extraction

Blank (B9F1801-BLK1)

Prepared: 06/18/09 Analyzed: 06/19/09

1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3'-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902797 Date Reported: 06/25/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1801 - EPA 3545 ASE Extraction

Blank (B9F1801-BLK1)

Prepared: 06/18/09 Analyzed: 06/19/09

Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	3.93			mg/kg wet	6.67		58.9	47.2-108			
Surrogate: 2-Fluorobiphenyl	3.92			mg/kg wet	6.67		58.8	53.2-85.1			
Surrogate: 2-Fluorophenol	3.71			mg/kg wet	6.67		55.7	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.07			mg/kg wet	6.67		61.0	49.1-86.9			
Surrogate: Phenol-d6	3.77			mg/kg wet	6.67		56.5	47.6-99.6			
Surrogate: Terphenyl-d14	3.98			mg/kg wet	6.67		59.7	43.6-112			

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05SOC 350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902797
 Date Reported: 06/25/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1801 - EPA 3545 ASE Extraction

LCS (B9F1801-BS1)

Prepared: 06/18/09 Analyzed: 06/19/09

1,2,4-Trichlorobenzene	4.52	0.33	0.027	mg/kg wet	6.67		67.8	50.7-82.1			
1,4-Dichlorobenzene	4.01	0.33	0.024	mg/kg wet	6.67		60.2	44-77			
2,4-Dinitrotoluene	4.81	0.33	0.021	mg/kg wet	6.67		72.1	56.7-81.7			
2-Chlorophenol	4.62	0.67	0.038	mg/kg wet	6.67		69.3	52.3-88.2			
4-Chloro-3-methylphenol	4.86	0.67	0.040	mg/kg wet	6.67		72.9	53.4-87			
4-Nitrophenol	5.34	0.67	0.099	mg/kg wet	6.67		80.2	55.7-87.1			
Anthracene	5.38	0.33	0.025	mg/kg wet	6.67		80.6	65.3-92			
Benzo (a) anthracene	5.50	0.33	0.027	mg/kg wet	6.67		82.4	69-95.3			
Benzo (a) pyrene	5.44	0.33	0.027	mg/kg wet	6.67		81.7	68.5-98.2			
Chrysene	5.45	0.33	0.033	mg/kg wet	6.67		81.8	68.6-94.2			
Fluoranthene	5.50	0.33	0.024	mg/kg wet	6.67		82.4	64.3-94.6			
Fluorene	5.16	0.33	0.018	mg/kg wet	6.67		77.4	61.9-89.4			
N-Nitrosodi-n-propylamine	4.98	0.33	0.025	mg/kg wet	6.67		74.7	55.5-91.1			
Pentachlorophenol	4.90	0.67	0.096	mg/kg wet	6.67		73.5	54.7-74.6			
Phenanthrene	5.31	0.33	0.019	mg/kg wet	6.67		79.6	64.3-90.9			
Phenol	4.60	0.67	0.057	mg/kg wet	6.67		68.9	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	4.96			mg/kg wet	6.67		74.3	47.2-108			
Surrogate: 2-Fluorobiphenyl	4.64			mg/kg wet	6.67		69.6	53.2-85.1			
Surrogate: 2-Fluorophenol	4.56			mg/kg wet	6.67		68.4	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.74			mg/kg wet	6.67		71.1	49.1-86.9			
Surrogate: Phenol-d6	4.94			mg/kg wet	6.67		74.2	47.6-99.6			
Surrogate: Terphenyl-d14	4.77			mg/kg wet	6.67		71.5	43.6-112			

Matrix Spike (B9F1801-MS1)

Source: 0902817-18

Prepared: 06/18/09 Analyzed: 06/19/09

1,2,4-Trichlorobenzene	4.33	0.42	0.034	mg/kg dry	8.44	<0.42	51.3	51-77.5			
1,4-Dichlorobenzene	4.01	0.42	0.030	mg/kg dry	8.44	<0.42	47.5	41.7-73.4			
2,4-Dinitrotoluene	4.20	0.42	0.027	mg/kg dry	8.44	<0.42	49.8	50-84.8			M2
2-Chlorophenol	4.25	0.85	0.048	mg/kg dry	8.44	<0.85	50.4	47.8-90.8			
4-Chloro-3-methylphenol	4.33	0.85	0.051	mg/kg dry	8.44	<0.85	51.3	48.4-95.1			
4-Nitrophenol	5.30	0.85	0.13	mg/kg dry	8.44	<0.85	62.8	44-105			
Anthracene	4.79	0.42	0.032	mg/kg dry	8.44	<0.42	56.7	60.2-97.3			M2
Benzo (a) anthracene	4.69	0.42	0.034	mg/kg dry	8.44	<0.42	55.5	59.8-102			M2
Benzo (a) pyrene	4.53	0.42	0.034	mg/kg dry	8.44	<0.42	53.6	57.2-105			M2
Chrysene	4.64	0.42	0.042	mg/kg dry	8.44	<0.42	55.0	59.2-102			M2
Fluoranthene	4.81	0.42	0.030	mg/kg dry	8.44	<0.42	57.0	50.4-108			
Fluorene	4.83	0.42	0.023	mg/kg dry	8.44	<0.42	57.2	57.8-94.4			M2
N-Nitrosodi-n-propylamine	4.75	0.42	0.032	mg/kg dry	8.44	<0.42	56.3	46.2-96.2			
Pentachlorophenol	4.48	0.85	0.12	mg/kg dry	8.44	<0.85	53.0	53.6-80.4			M2
Phenanthrene	4.77	0.42	0.024	mg/kg dry	8.44	<0.42	56.5	58.4-97.5			M2
Phenol	4.29	0.85	0.072	mg/kg dry	8.44	<0.85	50.8	44-88.5			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1801 - EPA 3545 ASE Extraction

Matrix Spike (B9F1801-MS1)

Source: 0902817-18

Prepared: 06/18/09

Analyzed: 06/19/09

Surrogate: 2,4,6-Tribromophenol	4.07			mg/kg dry	8.44		48.2	47.2-108			
Surrogate: 2-Fluorobiphenyl	4.37			mg/kg dry	8.44		51.8	53.2-85.1			S-02
Surrogate: 2-Fluorophenol	4.09			mg/kg dry	8.44		48.4	48.5-90.1			S-02
Surrogate: Nitrobenzene-d5	4.71			mg/kg dry	8.44		55.8	49.1-86.9			
Surrogate: Phenol-d6	4.51			mg/kg dry	8.44		53.4	47.6-99.6			
Surrogate: Terphenyl-d14	4.08			mg/kg dry	8.44		48.3	43.6-112			

Matrix Spike Dup (B9F1801-MSD1)

Source: 0902817-18

Prepared: 06/18/09

Analyzed: 06/19/09

1,2,4-Trichlorobenzene	5.36	0.42	0.034	mg/kg dry	8.44	<0.42	63.5	51-77.5	21.2	15.7	R5
1,4-Dichlorobenzene	4.88	0.42	0.030	mg/kg dry	8.44	<0.42	57.8	41.7-73.4	19.6	14.7	R5
2,4-Dinitrotoluene	5.55	0.42	0.027	mg/kg dry	8.44	<0.42	65.8	50-84.8	27.7	20.5	R2
2-Chlorophenol	5.29	0.85	0.048	mg/kg dry	8.44	<0.85	62.7	47.8-90.8	21.7	19.8	R5
4-Chloro-3-methylphenol	5.66	0.85	0.051	mg/kg dry	8.44	<0.85	67.1	48.4-95.1	26.7	18.7	R5
4-Nitrophenol	7.08	0.85	0.13	mg/kg dry	8.44	<0.85	83.9	44-105	28.8	30.9	
Anthracene	6.26	0.42	0.032	mg/kg dry	8.44	<0.42	74.1	60.2-97.3	26.7	15.1	R2
Benzo (a) anthracene	6.28	0.42	0.034	mg/kg dry	8.44	<0.42	74.3	59.8-102	29.0	19.6	R2
Benzo (a) pyrene	6.00	0.42	0.034	mg/kg dry	8.44	<0.42	71.1	57.2-105	28.0	19.4	R2
Chrysene	6.34	0.42	0.042	mg/kg dry	8.44	<0.42	75.1	59.2-102	31.0	19.6	R2
Fluoranthene	6.26	0.42	0.030	mg/kg dry	8.44	<0.42	74.1	50.4-108	26.2	21	R5
Fluorene	6.10	0.42	0.023	mg/kg dry	8.44	<0.42	72.3	57.8-94.4	23.3	15.8	R2
N-Nitrosodi-n-propylamine	6.07	0.42	0.032	mg/kg dry	8.44	<0.42	71.9	46.2-96.2	24.4	17.1	R5
Pentachlorophenol	6.17	0.85	0.12	mg/kg dry	8.44	<0.85	73.1	53.6-80.4	31.8	22.4	R2
Phenanthrene	6.18	0.42	0.024	mg/kg dry	8.44	<0.42	73.2	58.4-97.5	25.7	14.3	R2
Phenol	5.43	0.85	0.072	mg/kg dry	8.44	<0.85	64.3	44-88.5	23.6	21.5	R5
Surrogate: 2,4,6-Tribromophenol	5.47			mg/kg dry	8.44		64.8	47.2-108			
Surrogate: 2-Fluorobiphenyl	5.67			mg/kg dry	8.44		67.1	53.2-85.1			
Surrogate: 2-Fluorophenol	5.12			mg/kg dry	8.44		60.7	48.5-90.1			
Surrogate: Nitrobenzene-d5	5.83			mg/kg dry	8.44		69.0	49.1-86.9			
Surrogate: Phenol-d6	5.87			mg/kg dry	8.44		69.5	47.6-99.6			
Surrogate: Terphenyl-d14	5.66			mg/kg dry	8.44		67.0	43.6-112			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppl	Work Order #: 0902797 Date Reported: 06/25/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1511 - Volatiles

Blank (B9F1511-BLK1)

Prepared & Analyzed: 06/15/09

1,1,1,2-Tetrachloroethane	< 0.026	0.25	0.026	mg/kg wet							
1,1,1-Trichloroethane	< 0.033	0.25	0.033	mg/kg wet							
1,1,2,2-Tetrachloroethane	< 0.025	0.25	0.025	mg/kg wet							
1,1,2-Trichloroethane	< 0.037	0.25	0.037	mg/kg wet							
1,1,2-Trichlorotrifluoroethane	< 0.065	0.25	0.065	mg/kg wet							
1,1-Dichloroethane	< 0.024	0.25	0.024	mg/kg wet							
1,1-Dichloroethene	< 0.025	0.25	0.025	mg/kg wet							
1,1-Dichloropropene	< 0.027	0.25	0.027	mg/kg wet							
1,2,3-Trichlorobenzene	< 0.066	0.50	0.066	mg/kg wet							
1,2,3-Trichloropropane	< 0.053	0.25	0.053	mg/kg wet							
1,2,4-Trichlorobenzene	< 0.064	0.50	0.064	mg/kg wet							
1,2,4-Trimethylbenzene	< 0.020	0.25	0.020	mg/kg wet							
1,2-Dibromo-3-chloropropane	< 0.057	0.50	0.057	mg/kg wet							
1,2-Dibromoethane (EDB)	< 0.038	0.25	0.038	mg/kg wet							
1,2-Dichlorobenzene	< 0.027	0.25	0.027	mg/kg wet							
1,2-Dichloroethane	< 0.025	0.25	0.025	mg/kg wet							
1,2-Dichloropropane	< 0.028	0.25	0.028	mg/kg wet							
1,3,5-Trimethylbenzene	< 0.015	0.25	0.015	mg/kg wet							
1,3-Dichlorobenzene	< 0.028	0.25	0.028	mg/kg wet							
1,3-Dichloropropane	< 0.017	0.25	0.017	mg/kg wet							
1,4-Dichlorobenzene	< 0.018	0.25	0.018	mg/kg wet							
2,2-Dichloropropane	< 0.068	0.50	0.068	mg/kg wet							
2-Butanone	< 0.12	2.0	0.12	mg/kg wet							
2-Chlorotoluene	< 0.018	0.25	0.018	mg/kg wet							
4-Chlorotoluene	< 0.029	0.25	0.029	mg/kg wet							
Acetone	< 0.32	2.0	0.32	mg/kg wet							
Allyl chloride	< 0.067	0.50	0.067	mg/kg wet							
Benzene	< 0.015	0.25	0.015	mg/kg wet							
Bromobenzene	< 0.019	0.25	0.019	mg/kg wet							
Bromochloromethane	< 0.025	0.25	0.025	mg/kg wet							
Bromodichloromethane	< 0.035	0.25	0.035	mg/kg wet							
Bromoform	< 0.080	0.50	0.080	mg/kg wet							
Bromomethane	< 0.14	0.50	0.14	mg/kg wet							
Carbon tetrachloride	< 0.027	0.25	0.027	mg/kg wet							
Chlorobenzene	< 0.025	0.25	0.025	mg/kg wet							
Chloroethane	< 0.073	0.25	0.073	mg/kg wet							
Chloroform	< 0.042	0.25	0.042	mg/kg wet							
Chloromethane	< 0.041	0.25	0.041	mg/kg wet							
cis-1,2-Dichloroethene	< 0.046	0.25	0.046	mg/kg wet							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1511 - Volatiles

Blank (B9F1511-BLK1)

Prepared & Analyzed: 06/15/09

cis-1,3-Dichloropropene	< 0.023	0.25	0.023	mg/kg wet							
Dibromochloromethane	< 0.032	0.25	0.032	mg/kg wet							
Dibromomethane	< 0.046	0.25	0.046	mg/kg wet							
Dichlorodifluoromethane	< 0.082	0.50	0.082	mg/kg wet							
Dichlorofluoromethane	< 0.044	0.25	0.044	mg/kg wet							
Ethyl ether	< 0.048	0.50	0.048	mg/kg wet							
Ethylbenzene	< 0.022	0.25	0.022	mg/kg wet							
Hexachlorobutadiene	< 0.13	1.0	0.13	mg/kg wet							
Isopropylbenzene	< 0.023	0.25	0.023	mg/kg wet							
m,p-Xylene	< 0.088	0.50	0.088	mg/kg wet							
Methyl isobutyl ketone	< 0.092	0.50	0.092	mg/kg wet							
Methyl tert-butyl ether	< 0.017	0.25	0.017	mg/kg wet							
Methylene chloride	< 0.17	1.0	0.17	mg/kg wet							
Naphthalene	< 0.065	0.50	0.065	mg/kg wet							
n-Butylbenzene	< 0.032	0.25	0.032	mg/kg wet							
n-Propylbenzene	< 0.014	0.25	0.014	mg/kg wet							
o-Xylene	< 0.031	0.25	0.031	mg/kg wet							
p-Isopropyltoluene	< 0.030	0.25	0.030	mg/kg wet							
sec-Butylbenzene	< 0.010	0.25	0.010	mg/kg wet							
Styrene	< 0.040	0.25	0.040	mg/kg wet							
tert-Butylbenzene	< 0.018	0.25	0.018	mg/kg wet							
Tetrachloroethene	< 0.035	0.25	0.035	mg/kg wet							
Tetrahydrofuran	< 0.10	2.0	0.10	mg/kg wet							
Toluene	< 0.028	0.25	0.028	mg/kg wet							
trans-1,2-Dichloroethene	< 0.022	0.25	0.022	mg/kg wet							
trans-1,3-Dichloropropene	< 0.035	0.25	0.035	mg/kg wet							
Trichloroethene	< 0.040	0.25	0.040	mg/kg wet							
Trichlorofluoromethane	< 0.032	0.25	0.032	mg/kg wet							
Vinyl chloride	< 0.023	0.25	0.023	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	49.8			ug/L	50.0		99.6	80-120			
Surrogate: Dibromofluoromethane	49.5			ug/L	50.0		99.0	80-120			
Surrogate: Toluene-d8	48.2			ug/L	50.0		96.5	80-120			

LCS (B9F1511-BS1)

Prepared & Analyzed: 06/15/09

1,1,2,2-Tetrachloroethane	42.0			ug/L	50.0		84.0	80-120			
1,1-Dichloroethane	51.2			ug/L	50.0		102	78.8-120			
1,1-Dichloroethene	53.4			ug/L	50.0		107	75-125			
1,3,5-Trimethylbenzene	41.3			ug/L	50.0		82.5	80-120			
1,4-Dichlorobenzene	45.6			ug/L	50.0		91.3	75-125			
2-Chlorotoluene	40.1			ug/L	50.0		80.2	80-120			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902797 Date Reported: 06/25/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1511 - Volatiles

LCS (B9F1511-BS1)

Prepared & Analyzed: 06/15/09

Benzene	49.3			ug/L	50.0		98.5	80-120			
Bromoform	48.3			ug/L	50.0		96.5	77.1-125			
Chlorobenzene	48.9			ug/L	50.0		97.9	80-120			
Chloroform	50.9			ug/L	50.0		102	77.3-120			
Ethylbenzene	49.5			ug/L	50.0		99.0	80-120			
n-Butylbenzene	45.7			ug/L	50.0		91.4	70.1-125			
n-Propylbenzene	39.9			ug/L	50.0		79.8	75-120			
Toluene	49.1			ug/L	50.0		98.2	80-120			
Trichloroethene	49.7			ug/L	50.0		99.4	80-120			
Vinyl chloride	59.4			ug/L	50.0		119	70-130			
Surrogate: 4-Bromofluorobenzene	50.0			ug/L	50.0		100	80-120			
Surrogate: Dibromofluoromethane	49.1			ug/L	50.0		98.3	80-120			
Surrogate: Toluene-d8	47.1			ug/L	50.0		94.2	80-120			

Matrix Spike (B9F1511-MS1)

Source: 0902797-01

Prepared & Analyzed: 06/15/09

1,1,2,2-Tetrachloroethane	42.0			ug/L	50.0	<	84.0	80-120			
1,1-Dichloroethane	50.0			ug/L	50.0	<	100	77.5-120			
1,1-Dichloroethene	51.1			ug/L	50.0	<	102	76.1-125			
1,3,5-Trimethylbenzene	41.4			ug/L	50.0	<	82.7	80-120			
1,4-Dichlorobenzene	44.5			ug/L	50.0	<	88.9	75-125			
2-Chlorotoluene	41.8			ug/L	50.0	<	83.5	76.9-120			
Benzene	48.7			ug/L	50.0	<	97.3	80-120			
Bromoform	48.1			ug/L	50.0	<	96.1	80-125			
Chlorobenzene	48.1			ug/L	50.0	<	96.1	80-120			
Chloroform	50.8			ug/L	50.0	<	102	80-120			
Ethylbenzene	49.8			ug/L	50.0	<	99.6	80-120			
n-Butylbenzene	45.5			ug/L	50.0	<	91.1	74.7-125			
n-Propylbenzene	40.8			ug/L	50.0	<	81.5	75-120			
Toluene	47.9			ug/L	50.0	<	95.8	80-120			
Trichloroethene	49.6			ug/L	50.0	<	99.2	80-120			
Vinyl chloride	59.3			ug/L	50.0	<	119	70-125			
Surrogate: 4-Bromofluorobenzene	50.8			ug/L	50.0		102	80-120			
Surrogate: Dibromofluoromethane	48.3			ug/L	50.0		96.7	80-120			
Surrogate: Toluene-d8	47.7			ug/L	50.0		95.4	80-120			

Matrix Spike Dup (B9F1511-MSD1)

Source: 0902797-01

Prepared & Analyzed: 06/15/09

1,1,2,2-Tetrachloroethane	43.7			ug/L	50.0	<	87.4	80-120	4.01	20	
1,1-Dichloroethane	51.0			ug/L	50.0	<	102	77.5-120	1.82	20	
1,1-Dichloroethene	51.0			ug/L	50.0	<	102	76.1-125	0.273	20	
1,3,5-Trimethylbenzene	44.8			ug/L	50.0	<	89.7	80-120	8.06	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902797 Date Reported: 06/25/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1511 - Volatiles											
Matrix Spike Dup (B9F1511-MSD1)		Source: 0902797-01				Prepared & Analyzed: 06/15/09					
1,4-Dichlorobenzene	44.5			ug/L	50.0	<	89.1	75-125	0.156	20	
2-Chlorotoluene	43.5			ug/L	50.0	<	86.9	76.9-120	3.99	20	
Benzene	49.2			ug/L	50.0	<	98.4	80-120	1.05	20	
Bromoform	49.5			ug/L	50.0	<	98.9	80-125	2.89	20	
Chlorobenzene	49.5			ug/L	50.0	<	99.1	80-120	2.99	20	
Chloroform	51.3			ug/L	50.0	<	103	80-120	0.818	20	
Ethylbenzene	49.5			ug/L	50.0	<	99.1	80-120	0.490	20	
n-Butylbenzene	45.7			ug/L	50.0	<	91.5	74.7-125	0.442	20	
n-Propylbenzene	43.7			ug/L	50.0	<	87.4	75-120	7.03	20	
Toluene	48.6			ug/L	50.0	<	97.2	80-120	1.51	20	
Trichloroethene	49.5			ug/L	50.0	<	98.9	80-120	0.303	20	
Vinyl chloride	58.0			ug/L	50.0	<	116	70-125	2.37	20	
Surrogate: 4-Bromofluorobenzene	50.8			ug/L	50.0		102	80-120			
Surrogate: Dibromofluoromethane	48.3			ug/L	50.0		96.7	80-120			
Surrogate: Toluene-d8	47.1			ug/L	50.0		94.2	80-120			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902797 Date Reported: 06/25/09
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Notes and Definitions

- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- S-02 Surrogate recovery outside of laboratory acceptance limits.
- R5 MS/MSD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.
- R2 RPD/RSD exceeded the laboratory acceptance limit.
- M2 Matrix spike recovery was low, the associated blank spike recovery was acceptable.
- J Parameter was present between the MDL and RL and should be considered an estimated value
- < Less than value listed
- dry Sample results reported on a dry weight basis
- NA Not applicable. The %RPD is not calculated from values less than the reporting limit.
- MDL Method Detection Limit
- RL Reporting Limit
- RPD Relative Percent Difference
- LCS Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
- MS Matrix Spike = Laboratory Fortified Matrix (LFM)

0902797

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number
23/19-B-05-SOC-350
Project Name
UMore PH2
NO 28187

Sample Identification	Collection		Matrix Type	Grab	Comp	OC
	Date	Time				
01 SOC3-TT8-15-1	6/18/09	1400	X	X		
02 SOC3-TT7-05-1	✓	1300	X	X		
03 SOC3-TT1-1-2	6/19/09	1000	X	X		
04 SOC3-TT15-3-4	✓	1030	X	X		
05 SOC3-TT15-5-1	✓	1045	X	X		
06 SOC3-TT2-5-1	✓	1400	X	X		
07 SOC3-TT2-3-4	✓	1430	X	X		
08						
09						
10						
11						
12						

Common Parameter/Container - Preservation Key
 *1 - Volatile Organics = BTEX, GRO, TPH, Full List
 *2 - Semivolatile Organics = PAHs, PCB, Dioxins, Full List, HexachloroCyclopentadiene/PCB
 *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
 *4 - Nutrients = COD, TUC, Phenols, Ammonia Nitrogen, TKN

Number of Containers/Preservative	Water		Soil		Total No. Of Containers	Remarks:
	Water	Soil	Water	Soil		
	Volatiles Organics (Pres.) *1		X	X	5	Analyze VOC, SVOC, PPE
	Semivolatile Organics *2		X	X	5	metals, DC pesticides
	Dissolved Metals (HNO ₃)		X	X	5	
	Total Metals (HNO ₃)		X	X	5	
	General (Unpreserved) *3		X	X	5	
	Cyanide (NaOH)		X	X	5	
	Nutrients (H ₂ SO ₄) *4		X	X	5	
	Oil and Grease (H ₂ SO ₄)		X	X	5	
	Sulfide (Zn Acetate)		X	X	5	
	Methane		X	X	5	
	Bacteria (Na ₂ S ₂ O ₂)		X	X	5	
	DRG (HCl)		X	X	5	
	VOCs (2-oz lared MeOH) *1		X	X	5	
	GRO, BTEX (2-oz lared MeOH) *1		X	X	5	
	DRG (2-oz lared) - 25 grams		X	X	5	
	Metals (2-oz unpreserved)		X	X	5	
	SVOCs (2 or 4-oz unpres.) *2		X	X	5	
	% Moisture (plastic vial, unpres.)		X	X	5	

Project Manager: JME/JSA
 Project Contact: MSH/KTN
 Sampled by: KCB
 Laboratory: Legend

COC 1 of 1

Received by: [Signature]
 Date: 6/18/09
 Time: 11:00

Air Bill Number: [Blank]

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\R\G\STDFORMS\Chain of Custody Form RLG Rev. 07/01/05



88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

July 02, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0902812
RE: 23/19-0B05.07

Enclosed are the results of analyses for samples received by the laboratory on 06/12/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
tolson@legend-group.com

Erica Nastrom
QA/QC Coordinator
enastrom@legend-group.com

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Nepl	Work Order #: 0902812 Date Reported: 07/02/09
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-B1-001	0902812-01	Water	06/11/09 10:55	06/12/09 13:30
MW-E2-209	0902812-02	Water	06/11/09 13:10	06/12/09 13:30
MW-E2-009	0902812-03	Water	06/11/09 14:35	06/12/09 13:30
WSW-207605	0902812-04	Water	06/11/09 16:35	06/12/09 13:30
Trip Blank	0902812-05	Water	05/29/09 00:00	06/12/09 13:30
FB-1	0902812-06	Water	06/11/09 15:25	06/12/09 13:30

Shipping Container Information

Default Cooler Temperature (°C): 5.4

Received on ice: Yes Temperature blank was present Received on ice pack: No
 Received on melt water: No Ambient: No Acceptable (IH/ISO only): No
 Custody seals: No

Case Narrative:

This report contains data that were produced by a subcontracted laboratory certified for the fields of testing performed. The total kjeldahl as N and nitrate/nitrite as N analyses for the Clean Water Program were performed by Davy Laboratories, LaCrosse, WI, #055-999-151.

Due to a laboratory extraction error, sample WSW-207605 for the 8270 SVOC and 8081 pesticides analyses were re-sampled by the client. The Legend work order number for the recollected samples is 0902894.

An LCS/LCSD were prepared and analyzed for 8081A batches B9F1507 and B9F1802 instead of the method specified LCS/MS/MSD. Insufficient sample was received to meet method QC requirements.

Recoveries for the 8270 SVOC compounds 4-chloro-3-methylphenol, 4-nitrophenol, and phenol in the batch B9F1702 MS/MSD were below laboratory limits. Recoveries for surrogates 2-fluorophenol, phenol-d6, and 2,4,6-tribromophenol were below laboratory limits in the MS/MSD. All spike compounds and surrogates were within limits in the batch method blank and LCS. The MS/MSD source sample was MW-E2-009.

Beryllium recoveries in the MS/MSD samples for 6020 batch B9F2215 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was not associated with this work order.

Beryllium recoveries in the MS/MSD samples for 6020 batch B9F2412 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was sample WSW-207605.

Silver and zinc recoveries in the MS/MSD samples for 6010 batch B9F2413 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was WSW-207605.

Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Project: 23/19-0B05.07
Project Number: 23/19-0B05SWOC300
Project Manager: Ms. Kelly Nepl

Work Order #: 0902812
Date Reported: 07/02/09

DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-B1-001 (0902812-01) Water Sampled: 06/11/09 10:55 Received: 06/12/09 13:30										
Antimony	<0.50	0.50	0.046	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Arsenic	<0.010	0.010	0.0020	mg/L	1	B9F2506	06/25/09	06/25/09	EPA 6010B (Dissolved)	
Beryllium	<0.50	0.50	0.027	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Cadmium	<0.0010	0.0010	0.000099	mg/L	1	B9F2506	06/25/09	06/25/09	EPA 6010B (Dissolved)	
Chromium	<0.010	0.010	0.00024	mg/L	1	"	"	"	"	
Copper	<0.020	0.020	0.0014	mg/L	1	"	"	"	"	
Lead	<0.0030	0.0030	0.00068	mg/L	1	"	"	"	"	
Mercury	<0.00020	0.00020	0.000031	mg/L	1	B9F2406	06/24/09	06/25/09	EPA 7470A (Dissolved)	
Nickel	<0.0050	0.0050	0.00028	mg/L	1	B9F2506	06/25/09	06/25/09	EPA 6010B (Dissolved)	
Selenium	<0.020	0.020	0.0022	mg/L	1	"	"	"	"	
Silver	<0.0050	0.0050	0.00018	mg/L	1	"	"	"	"	
Thallium	<0.50	0.50	0.0081	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Zinc	<0.020	0.020	0.0044	mg/L	1	B9F2506	06/25/09	06/25/09	EPA 6010B (Dissolved)	

MW-E2-209 (0902812-02) Water Sampled: 06/11/09 13:10 Received: 06/12/09 13:30										
Antimony	<0.50	0.50	0.046	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Arsenic	<0.010	0.010	0.0020	mg/L	1	B9F2506	06/25/09	06/25/09	EPA 6010B (Dissolved)	
Beryllium	<0.50	0.50	0.027	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Cadmium	<0.0010	0.0010	0.000099	mg/L	1	B9F2506	06/25/09	06/25/09	EPA 6010B (Dissolved)	
Chromium	<0.010	0.010	0.00024	mg/L	1	"	"	"	"	
Copper	<0.020	0.020	0.0014	mg/L	1	"	"	"	"	
Lead	<0.0030	0.0030	0.00068	mg/L	1	"	"	"	"	
Mercury	<0.00020	0.00020	0.000031	mg/L	1	B9F2406	06/24/09	06/25/09	EPA 7470A (Dissolved)	
Nickel	<0.0050	0.0050	0.00028	mg/L	1	B9F2506	06/25/09	06/25/09	EPA 6010B (Dissolved)	
Selenium	<0.020	0.020	0.0022	mg/L	1	"	"	"	"	
Silver	<0.0050	0.0050	0.00018	mg/L	1	"	"	"	"	
Thallium	<0.50	0.50	0.0081	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Zinc	<0.020	0.020	0.0044	mg/L	1	B9F2506	06/25/09	06/25/09	EPA 6010B (Dissolved)	

MW-E2-009 (0902812-03) Water Sampled: 06/11/09 14:35 Received: 06/12/09 13:30										
Antimony	<0.50	0.50	0.046	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Arsenic	<0.010	0.010	0.0020	mg/L	1	B9F2506	06/25/09	06/25/09	EPA 6010B (Dissolved)	

Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Project: 23/19-0B05.07
Project Number: 23/19-0B05SWOC300
Project Manager: Ms. Kelly Nepl

Work Order #: 0902812
Date Reported: 07/02/09

DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-E2-009 (0902812-03) Water Sampled: 06/11/09 14:35 Received: 06/12/09 13:30										
Beryllium	<0.50	0.50	0.027	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Cadmium	0.0014	0.0010	0.000099	mg/L	1	B9F2506	06/25/09	06/25/09	EPA 6010B (Dissolved)	
Chromium	<0.010	0.010	0.00024	mg/L	1	"	"	"	"	
Copper	<0.020	0.020	0.0014	mg/L	1	"	"	"	"	
Lead	<0.0030	0.0030	0.00068	mg/L	1	"	"	"	"	
Mercury	<0.00020	0.00020	0.000031	mg/L	1	B9F2406	06/24/09	06/25/09	EPA 7470A (Dissolved)	
Nickel	<0.0050	0.0050	0.00028	mg/L	1	B9F2506	06/25/09	06/25/09	EPA 6010B (Dissolved)	
Selenium	<0.020	0.020	0.0022	mg/L	1	"	"	"	"	
Silver	<0.0050	0.0050	0.00018	mg/L	1	"	"	"	"	
Thallium	<0.50	0.50	0.0081	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Zinc	<0.020	0.020	0.0044	mg/L	1	B9F2506	06/25/09	06/25/09	EPA 6010B (Dissolved)	
FB-1 (0902812-06) Water Sampled: 06/11/09 15:25 Received: 06/12/09 13:30										
Antimony	<0.50	0.50	0.046	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	F-01
Arsenic	<0.010	0.010	0.0020	mg/L	1	B9F2506	06/25/09	06/25/09	EPA 6010B (Dissolved)	
Beryllium	<0.50	0.50	0.027	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Cadmium	0.0023	0.0010	0.000099	mg/L	1	B9F2506	06/25/09	06/25/09	EPA 6010B (Dissolved)	
Chromium	<0.010	0.010	0.00024	mg/L	1	"	"	"	"	
Copper	<0.020	0.020	0.0014	mg/L	1	"	"	"	"	
Lead	<0.0030	0.0030	0.00068	mg/L	1	"	"	"	"	
Mercury	<0.00020	0.00020	0.000031	mg/L	1	B9F2406	06/24/09	06/25/09	EPA 7470A (Dissolved)	
Nickel	<0.0050	0.0050	0.00028	mg/L	1	B9F2506	06/25/09	06/25/09	EPA 6010B (Dissolved)	
Selenium	<0.020	0.020	0.0022	mg/L	1	"	"	"	"	
Silver	<0.0050	0.0050	0.00018	mg/L	1	"	"	"	"	
Thallium	<0.50	0.50	0.0081	ug/L	1	B9F2215	06/22/09	06/23/09	EPA 6020 (Dissolved)	
Zinc	<0.020	0.020	0.0044	mg/L	1	B9F2506	06/25/09	06/25/09	EPA 6010B (Dissolved)	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Nepl	Work Order #: 0902812 Date Reported: 07/02/09
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TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-207605 (0902812-04) Water Sampled: 06/11/09 16:35 Received: 06/12/09 13:30										
Antimony	<0.50	0.50	0.046	ug/L	1	B9F2412	06/24/09	06/25/09	EPA 6020	
Arsenic	<0.010	0.010	0.0020	mg/L	1	B9F2413	06/24/09	06/25/09	EPA 6010B	
Beryllium	<0.50	0.50	0.027	ug/L	1	B9F2412	06/24/09	06/25/09	EPA 6020	M2
Cadmium	<0.0010	0.0010	0.000099	mg/L	1	B9F2413	06/24/09	06/25/09	EPA 6010B	
Chromium	<0.010	0.010	0.00024	mg/L	1	"	"	"	"	
Copper	<0.020	0.020	0.0014	mg/L	1	"	"	"	"	
Lead	0.0064	0.0030	0.00068	mg/L	1	"	"	"	"	
Mercury	<0.00020	0.00020	0.000031	mg/L	1	B9F2406	06/24/09	06/25/09	EPA 7470A	
Nickel	<0.0050	0.0050	0.00028	mg/L	1	B9F2413	06/24/09	06/25/09	EPA 6010B	
Selenium	<0.020	0.020	0.0022	mg/L	1	"	"	"	"	
Silver	0.011	0.0050	0.00018	mg/L	1	"	"	"	"	M2
Thallium	<0.50	0.50	0.0081	ug/L	1	B9F2412	06/24/09	06/25/09	EPA 6020	
Zinc	0.13	0.020	0.0044	mg/L	1	B9F2413	06/24/09	06/25/09	EPA 6010B	M2

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Nepl	Work Order #: 0902812 Date Reported: 07/02/09
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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-B1-001 (0902812-01) Water Sampled: 06/11/09 10:55 Received: 06/12/09 13:30										
4,4'-DDD	<0.034	0.37	0.034	ug/L	1	B9F1507	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
4,4'-DDT	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
a-Chlordane	<0.035	0.37	0.035	ug/L	1	"	"	"	"	
Aldrin	<0.036	0.37	0.036	ug/L	1	"	"	"	"	
alpha-BHC	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
beta-BHC	<0.049	0.37	0.049	ug/L	1	"	"	"	"	
delta-BHC	<0.043	0.37	0.043	ug/L	1	"	"	"	"	
Dieldrin	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
Endosulfan I	<0.037	0.37	0.037	ug/L	1	"	"	"	"	
Endosulfan II	<0.038	0.37	0.038	ug/L	1	"	"	"	"	
Endosulfan sulfate	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
Endrin	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
Endrin aldehyde	<0.047	0.37	0.047	ug/L	1	"	"	"	"	
Endrin ketone	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
gamma-BHC (Lindane)	<0.044	0.37	0.044	ug/L	1	"	"	"	"	
gamma-Chlordane	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
Heptachlor	<0.036	0.37	0.036	ug/L	1	"	"	"	"	
Heptachlor epoxide	<0.038	0.37	0.038	ug/L	1	"	"	"	"	
Methoxychlor	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
Toxaphene	<0.18	0.93	0.18	ug/L	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	95.0							06/17/09	"	
Surrogate: Tetrachloro-meta-xylene	87.0							"	"	

MW-E2-209 (0902812-02) Water Sampled: 06/11/09 13:10 Received: 06/12/09 13:30										
4,4'-DDD	<0.034	0.37	0.034	ug/L	1	B9F1507	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
4,4'-DDT	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
a-Chlordane	<0.035	0.37	0.035	ug/L	1	"	"	"	"	
Aldrin	<0.036	0.37	0.036	ug/L	1	"	"	"	"	
alpha-BHC	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
beta-BHC	<0.049	0.37	0.049	ug/L	1	"	"	"	"	
delta-BHC	<0.043	0.37	0.043	ug/L	1	"	"	"	"	
Dieldrin	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
Endosulfan I	<0.037	0.37	0.037	ug/L	1	"	"	"	"	
Endosulfan II	<0.038	0.37	0.038	ug/L	1	"	"	"	"	
Endosulfan sulfate	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
Endrin	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
Endrin aldehyde	<0.047	0.37	0.047	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Nepl	Work Order #: 0902812 Date Reported: 07/02/09
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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-E2-209 (0902812-02) Water Sampled: 06/11/09 13:10 Received: 06/12/09 13:30										
Endrin ketone	<0.039	0.37	0.039	ug/L	1	B9F1507	06/15/09	06/17/09	EPA 8081A	
gamma-BHC (Lindane)	<0.044	0.37	0.044	ug/L	1	"	"	"	"	
gamma-Chlordane	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
Heptachlor	<0.036	0.37	0.036	ug/L	1	"	"	"	"	
Heptachlor epoxide	<0.038	0.37	0.038	ug/L	1	"	"	"	"	
Methoxychlor	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
Toxaphene	<0.18	0.93	0.18	ug/L	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	93.5			80.6-122 %		"	"	06/17/09	"	
Surrogate: Tetrachloro-meta-xylene	88.0			71.7-111 %		"	"	"	"	

MW-E2-009 (0902812-03) Water Sampled: 06/11/09 14:35 Received: 06/12/09 13:30										
4,4'-DDD	<0.034	0.37	0.034	ug/L	1	B9F1507	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
4,4'-DDT	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
a-Chlordane	<0.035	0.37	0.035	ug/L	1	"	"	"	"	
Aldrin	<0.036	0.37	0.036	ug/L	1	"	"	"	"	
alpha-BHC	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
beta-BHC	<0.049	0.37	0.049	ug/L	1	"	"	"	"	
delta-BHC	<0.043	0.37	0.043	ug/L	1	"	"	"	"	
Dieldrin	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
Endosulfan I	<0.037	0.37	0.037	ug/L	1	"	"	"	"	
Endosulfan II	<0.038	0.37	0.038	ug/L	1	"	"	"	"	
Endosulfan sulfate	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
Endrin	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
Endrin aldehyde	<0.047	0.37	0.047	ug/L	1	"	"	"	"	
Endrin ketone	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
gamma-BHC (Lindane)	<0.044	0.37	0.044	ug/L	1	"	"	"	"	
gamma-Chlordane	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
Heptachlor	<0.036	0.37	0.036	ug/L	1	"	"	"	"	
Heptachlor epoxide	<0.038	0.37	0.038	ug/L	1	"	"	"	"	
Methoxychlor	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
Toxaphene	<0.18	0.93	0.18	ug/L	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	93.5			80.6-122 %		"	"	06/17/09	"	
Surrogate: Tetrachloro-meta-xylene	88.0			71.7-111 %		"	"	"	"	

FB-1 (0902812-06) Water Sampled: 06/11/09 15:25 Received: 06/12/09 13:30										
4,4'-DDD	<0.034	0.37	0.034	ug/L	1	B9F1802	06/18/09	06/25/09	EPA 8081A	
4,4'-DDE	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
4,4'-DDT	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
a-Chlordane	<0.035	0.37	0.035	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Nepl	Work Order #: 0902812 Date Reported: 07/02/09
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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-1 (0902812-06) Water Sampled: 06/11/09 15:25 Received: 06/12/09 13:30										
Aldrin	<0.036	0.37	0.036	ug/L	1	B9F1802	06/18/09	06/25/09	EPA 8081A	
alpha-BHC	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
beta-BHC	<0.049	0.37	0.049	ug/L	1	"	"	"	"	
delta-BHC	<0.043	0.37	0.043	ug/L	1	"	"	"	"	
Dieldrin	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
Endosulfan I	<0.037	0.37	0.037	ug/L	1	"	"	"	"	
Endosulfan II	<0.038	0.37	0.038	ug/L	1	"	"	"	"	
Endosulfan sulfate	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
Endrin	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
Endrin aldehyde	<0.047	0.37	0.047	ug/L	1	"	"	"	"	
Endrin ketone	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
gamma-BHC (Lindane)	<0.044	0.37	0.044	ug/L	1	"	"	"	"	
gamma-Chlordane	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
Heptachlor	<0.036	0.37	0.036	ug/L	1	"	"	"	"	
Heptachlor epoxide	<0.038	0.37	0.038	ug/L	1	"	"	"	"	
Methoxychlor	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
Toxaphene	<0.18	0.93	0.18	ug/L	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	88.5			80.6-122 %		"	"	06/25/09	"	
Surrogate: Tetrachloro-meta-xylene	86.0			71.7-111 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Nepl	Work Order #: 0902812 Date Reported: 07/02/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-B1-001 (0902812-01) Water Sampled: 06/11/09 10:55 Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9F1702	06/17/09	06/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3'-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Neppi	Work Order #: 0902812 Date Reported: 07/02/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-B1-001 (0902812-01) Water Sampled: 06/11/09 10:55 Received: 06/12/09 13:30										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9F1702	06/17/09	06/18/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	66.6			48.5-114 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	80.8			41.7-98.4 %		"	"	"	"	
Surrogate: 2-Fluorophenol	43.8			30-93.5 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	75.2			47.4-97.8 %		"	"	"	"	
Surrogate: Phenol-d6	38.1			30-91.5 %		"	"	"	"	
Surrogate: Terphenyl-d14	76.3			30-108 %		"	"	"	"	

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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-E2-209 (0902812-02) Water Sampled: 06/11/09 13:10 Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9F1702	06/17/09	06/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3'-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Neppi	Work Order #: 0902812 Date Reported: 07/02/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-E2-209 (0902812-02) Water Sampled: 06/11/09 13:10 Received: 06/12/09 13:30										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9F1702	06/17/09	06/18/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	76.5			48.5-114 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	78.1			41.7-98.4 %		"	"	"	"	
Surrogate: 2-Fluorophenol	44.3			30-93.5 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	74.0			47.4-97.8 %		"	"	"	"	
Surrogate: Phenol-d6	37.2			30-91.5 %		"	"	"	"	
Surrogate: Terphenyl-d14	90.2			30-108 %		"	"	"	"	

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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-E2-009 (0902812-03) Water Sampled: 06/11/09 14:35 Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9F1702	06/17/09	06/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3'-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	M2
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	M2
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-E2-009 (0902812-03) Water Sampled: 06/11/09 14:35 Received: 06/12/09 13:30										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9F1702	06/17/09	06/18/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	M2
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	68.0			48.5-114 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	70.4			41.7-98.4 %		"	"	"	"	
Surrogate: 2-Fluorophenol	45.2			30-93.5 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	72.2			47.4-97.8 %		"	"	"	"	
Surrogate: Phenol-d6	38.4			30-91.5 %		"	"	"	"	
Surrogate: Terphenyl-d14	67.1			30-108 %		"	"	"	"	

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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-1 (0902812-06) Water Sampled: 06/11/09 15:25 Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9F1702	06/17/09	06/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3'-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-1 (0902812-06) Water Sampled: 06/11/09 15:25 Received: 06/12/09 13:30										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9F1702	06/17/09	06/18/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	70.6			48.5-114 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	75.0			41.7-98.4 %		"	"	"	"	
Surrogate: 2-Fluorophenol	51.2			30-93.5 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	72.5			47.4-97.8 %		"	"	"	"	
Surrogate: Phenol-d6	44.0			30-91.5 %		"	"	"	"	
Surrogate: Terphenyl-d14	79.5			30-108 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Nepl	Work Order #: 0902812 Date Reported: 07/02/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-B1-001 (0902812-01) Water Sampled: 06/11/09 10:55 Received: 06/12/09 13:30										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9F1709	06/17/09	06/17/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	

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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-B1-001 (0902812-01) Water Sampled: 06/11/09 10:55 Received: 06/12/09 13:30										
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	B9F1709	06/17/09	06/17/09	EPA 8260B	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	109			76.4-125 %		"	"	"	"	
Surrogate: Dibromofluoromethane	105			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	102			80-125 %		"	"	"	"	

MW-E2-209 (0902812-02) Water Sampled: 06/11/09 13:10 Received: 06/12/09 13:30										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9F1709	06/17/09	06/17/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	

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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-E2-209 (0902812-02) Water Sampled: 06/11/09 13:10 Received: 06/12/09 13:30										
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	B9F1709	06/17/09	06/17/09	EPA 8260B	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	

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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-E2-209 (0902812-02) Water Sampled: 06/11/09 13:10 Received: 06/12/09 13:30										
Ethyl ether	<0.53	5.0	0.53	ug/L	1	B9F1709	06/17/09	06/17/09	EPA 8260B	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105			76.4-125 %		"	"	"	"	
Surrogate: Dibromofluoromethane	107			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	99.0			80-125 %		"	"	"	"	

MW-E2-009 (0902812-03) Water Sampled: 06/11/09 14:35 Received: 06/12/09 13:30										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9F1709	06/17/09	06/17/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	

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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-E2-009 (0902812-03) Water Sampled: 06/11/09 14:35 Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	B9F1709	06/17/09	06/17/09	EPA 8260B	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Neppi	Work Order #: 0902812 Date Reported: 07/02/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-E2-009 (0902812-03) Water Sampled: 06/11/09 14:35 Received: 06/12/09 13:30										
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	B9F1709	06/17/09	06/17/09	EPA 8260B	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104			76.4-125 %		"	"	"	"	
Surrogate: Dibromofluoromethane	106			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	99.6			80-125 %		"	"	"	"	

WSW-207605 (0902812-04) Water Sampled: 06/11/09 16:35 Received: 06/12/09 13:30										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9F1709	06/17/09	06/17/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Neppi	Work Order #: 0902812 Date Reported: 07/02/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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WSW-207605 (0902812-04) Water Sampled: 06/11/09 16:35 Received: 06/12/09 13:30

1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	B9F1709	06/17/09	06/17/09	EPA 8260B	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Nepl	Work Order #: 0902812 Date Reported: 07/02/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-207605 (0902812-04) Water Sampled: 06/11/09 16:35 Received: 06/12/09 13:30										
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	B9F1709	06/17/09	06/17/09	EPA 8260B	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	109			76.4-125 %		"	"	"	"	
Surrogate: Dibromofluoromethane	109			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	101			80-125 %		"	"	"	"	

Trip Blank (0902812-05) Water Sampled: 05/29/09 00:00 Received: 06/12/09 13:30										
H3b										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9F1709	06/17/09	06/17/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Nepl	Work Order #: 0902812 Date Reported: 07/02/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (0902812-05) Water										H3b
Sampled: 05/29/09 00:00										
Received: 06/12/09 13:30										
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	B9F1709	06/17/09	06/17/09	EPA 8260B	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	1.7	5.0	0.65	ug/L	1	"	"	"	"	J
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Neppi	Work Order #: 0902812 Date Reported: 07/02/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (0902812-05) Water										H3b
Sampled: 05/29/09 00:00 Received: 06/12/09 13:30										
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	B9F1709	06/17/09	06/17/09	EPA 8260B	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	110			76.4-125 %		"	"	"	"	
Surrogate: Dibromofluoromethane	107			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	101			80-125 %		"	"	"	"	

FB-1 (0902812-06) Water										
Sampled: 06/11/09 15:25 Received: 06/12/09 13:30										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9F1709	06/17/09	06/17/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Nepl	Work Order #: 0902812 Date Reported: 07/02/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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FB-1 (0902812-06) Water Sampled: 06/11/09 15:25 Received: 06/12/09 13:30

Acetone	<2.8	20	2.8	ug/L	1	B9F1709	06/17/09	06/17/09	EPA 8260B	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	

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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-1 (0902812-06) Water Sampled: 06/11/09 15:25 Received: 06/12/09 13:30										
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	B9F1709	06/17/09	06/17/09	EPA 8260B	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	110			76.4-125 %		"	"	"	"	
Surrogate: Dibromofluoromethane	109			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	101			80-125 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Nepl	Work Order #: 0902812 Date Reported: 07/02/09
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**Analytical Results
 Davy Laboratories, Inc.**

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-B1-001 (0902812-01) Water Sampled: 06/11/09 10:55 Received: 06/12/09 13:30										
Nitrate/Nitrite as N	9.03	0.06	0.02	mg/L	1	D906393		06/17/09	SM 4500 NO3-F-00	
Total Kjeldahl as N	<0.55	0.55	0.15	mg/L	1	D906501	"	06/23/09	SM 4500 NH3 C-97	
MW-E2-209 (0902812-02) Water Sampled: 06/11/09 13:10 Received: 06/12/09 13:30										
Nitrate/Nitrite as N	0.08	0.06	0.02	mg/L	1	D906393		06/17/09	SM 4500 NO3-F-00	
Total Kjeldahl as N	0.60	0.55	0.15	mg/L	1	D906501	"	06/23/09	SM 4500 NH3 C-97	
MW-E2-009 (0902812-03) Water Sampled: 06/11/09 14:35 Received: 06/12/09 13:30										
Nitrate/Nitrite as N	7.28	0.06	0.02	mg/L	1	D906393		06/17/09	SM 4500 NO3-F-00	
Total Kjeldahl as N	0.84	0.55	0.15	mg/L	1	D906501	"	06/23/09	SM 4500 NH3 C-97	
WSW-207605 (0902812-04) Water Sampled: 06/11/09 16:35 Received: 06/12/09 13:30										
Nitrate/Nitrite as N	1.75	0.06	0.02	mg/L	1	D906393		06/17/09	SM 4500 NO3-F-00	
Total Kjeldahl as N	0.60	0.55	0.15	mg/L	1	D906501	"	06/23/09	SM 4500 NH3 C-97	
FB-1 (0902812-06) Water Sampled: 06/11/09 15:25 Received: 06/12/09 13:30										
Nitrate/Nitrite as N	0.08	0.06	0.02	mg/L	1	D906578		06/26/09	SM 4500 NO3-F-00	
Total Kjeldahl as N	<0.55	0.55	0.15	mg/L	1	D906501	"	06/23/09	SM 4500 NH3 C-97	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Nepl	Work Order #: 0902812 Date Reported: 07/02/09
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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F2215 - EPA 200.8 Digestion											
Blank (B9F2215-BLK1) Prepared: 06/22/09 Analyzed: 06/23/09											
Antimony	< 0.50	0.50	0.046	ug/L							
Beryllium	< 0.50	0.50	0.027	ug/L							
Thallium	< 0.50	0.50	0.0081	ug/L							
LCS (B9F2215-BS1) Prepared: 06/22/09 Analyzed: 06/23/09											
Antimony	18.5	0.50	0.046	ug/L	20.0		92.6	80-120			
Beryllium	21.3	0.50	0.027	ug/L	20.0		106	80-120			
Thallium	18.0	0.50	0.0081	ug/L	20.0		89.9	80-120			
LCS Dup (B9F2215-BSD1) Prepared: 06/22/09 Analyzed: 06/23/09											
Antimony	18.3	0.50	0.046	ug/L	20.0		91.7	80-120	0.927	20	
Beryllium	22.1	0.50	0.027	ug/L	20.0		110	80-120	3.63	20	
Thallium	18.6	0.50	0.0081	ug/L	20.0		92.8	80-120	3.17	20	
Matrix Spike (B9F2215-MS1) Source: 0902751-01 Prepared: 06/22/09 Analyzed: 06/23/09											
Antimony	19.7	0.50	0.046	ug/L	20.0	<0.50	98.4	75-125			
Beryllium	6.90	0.50	0.027	ug/L	20.0	<0.50	34.5	75-125			M2
Thallium	18.7	0.50	0.0081	ug/L	20.0	<0.50	93.3	75-125			
Matrix Spike Dup (B9F2215-MSD1) Source: 0902751-01 Prepared: 06/22/09 Analyzed: 06/23/09											
Antimony	19.9	0.50	0.046	ug/L	20.0	<0.50	99.3	75-125	0.937	20	
Beryllium	7.28	0.50	0.027	ug/L	20.0	<0.50	36.4	75-125	5.35	20	M2
Thallium	19.5	0.50	0.0081	ug/L	20.0	<0.50	97.2	75-125	4.05	20	
Batch B9F2406 - EPA 245.1/7470A Digestion											
Blank (B9F2406-BLK1) Prepared: 06/24/09 Analyzed: 06/25/09											
Mercury	< 0.00020	0.00020	0.000031	mg/L							
LCS (B9F2406-BS1) Prepared: 06/24/09 Analyzed: 06/25/09											
Mercury	0.00196	0.00020	0.000031	mg/L	0.00200		98.0	80-120			
LCS Dup (B9F2406-BSD1) Prepared: 06/24/09 Analyzed: 06/25/09											
Mercury	0.00201	0.00020	0.000031	mg/L	0.00200		100	80-120	2.52	20	
Matrix Spike (B9F2406-MS1) Source: 0902812-01 Prepared: 06/24/09 Analyzed: 06/25/09											
Mercury	0.00203	0.00020	0.000031	mg/L	0.00200	<0.00020	102	75-125			
Matrix Spike Dup (B9F2406-MSD1) Source: 0902812-01 Prepared: 06/24/09 Analyzed: 06/25/09											
Mercury	0.00192	0.00020	0.000031	mg/L	0.00200	<0.00020	96.0	75-125	5.57	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Nepl	Work Order #: 0902812 Date Reported: 07/02/09
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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2506 - EPA 200.7/3005A Digestion

Blank (B9F2506-BLK1)

Prepared & Analyzed: 06/25/09

Arsenic	< 0.010	0.010	0.0020	mg/L							
Cadmium	< 0.0010	0.0010	0.000099	mg/L							
Chromium	< 0.010	0.010	0.00024	mg/L							
Copper	< 0.020	0.020	0.0014	mg/L							
Lead	< 0.0030	0.0030	0.00068	mg/L							
Nickel	< 0.0050	0.0050	0.00028	mg/L							
Selenium	< 0.020	0.020	0.0022	mg/L							
Silver	< 0.0050	0.0050	0.00018	mg/L							
Zinc	< 0.020	0.020	0.0044	mg/L							

LCS (B9F2506-BS1)

Prepared & Analyzed: 06/25/09

Arsenic	0.381	0.010	0.0020	mg/L	0.399		95.4	80-120			
Cadmium	0.393	0.0010	0.000099	mg/L	0.399		98.6	80-120			
Chromium	0.386	0.010	0.00024	mg/L	0.399		96.6	80-120			
Copper	0.386	0.020	0.0014	mg/L	0.399		96.8	80-120			
Lead	0.393	0.0030	0.00068	mg/L	0.399		98.4	80-120			
Nickel	0.391	0.0050	0.00028	mg/L	0.399		98.1	80-120			
Selenium	0.382	0.020	0.0022	mg/L	0.399		95.8	80-120			
Silver	0.0385	0.0050	0.00018	mg/L	0.0399		96.6	80-120			
Zinc	0.394	0.020	0.0044	mg/L	0.399		98.9	80-120			

LCS Dup (B9F2506-BSD1)

Prepared & Analyzed: 06/25/09

Arsenic	0.386	0.010	0.0020	mg/L	0.399		96.8	80-120	1.41	20	
Cadmium	0.399	0.0010	0.000099	mg/L	0.399		99.9	80-120	1.27	20	
Chromium	0.390	0.010	0.00024	mg/L	0.399		97.8	80-120	1.21	20	
Copper	0.390	0.020	0.0014	mg/L	0.399		97.7	80-120	0.943	20	
Lead	0.397	0.0030	0.00068	mg/L	0.399		99.4	80-120	1.02	20	
Nickel	0.397	0.0050	0.00028	mg/L	0.399		99.4	80-120	1.35	20	
Selenium	0.384	0.020	0.0022	mg/L	0.399		96.2	80-120	0.403	20	
Silver	0.0388	0.0050	0.00018	mg/L	0.0399		97.3	80-120	0.799	20	
Zinc	0.392	0.020	0.0044	mg/L	0.399		98.1	80-120	0.749	20	

Matrix Spike (B9F2506-MS1)

Source: 0902812-03

Prepared & Analyzed: 06/25/09

Arsenic	0.363	0.010	0.0020	mg/L	0.399	<0.010	91.0	75-125			
Cadmium	0.365	0.0010	0.000099	mg/L	0.399	0.00138	91.2	75-125			
Chromium	0.360	0.010	0.00024	mg/L	0.399	<0.010	89.7	75-125			
Copper	0.363	0.020	0.0014	mg/L	0.399	<0.020	90.4	75-125			
Lead	0.361	0.0030	0.00068	mg/L	0.399	<0.0030	90.5	75-125			
Nickel	0.363	0.0050	0.00028	mg/L	0.399	<0.0050	90.1	75-125			
Selenium	0.363	0.020	0.0022	mg/L	0.399	<0.020	90.0	75-125			
Silver	0.0362	0.0050	0.00018	mg/L	0.0399	<0.0050	90.7	75-125			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Neppi	Work Order #: 0902812 Date Reported: 07/02/09
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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F2506 - EPA 200.7/3005A Digestion											
Matrix Spike (B9F2506-MS1)		Source: 0902812-03				Prepared & Analyzed: 06/25/09					
Zinc	0.359	0.020	0.0044	mg/L	0.399	<0.020	88.7	75-125			
Matrix Spike Dup (B9F2506-MSD1)											
Matrix Spike Dup (B9F2506-MSD1)		Source: 0902812-03				Prepared & Analyzed: 06/25/09					
Arsenic	0.362	0.010	0.0020	mg/L	0.399	<0.010	90.7	75-125	0.357	20	
Cadmium	0.364	0.0010	0.000099	mg/L	0.399	0.00138	90.8	75-125	0.422	20	
Chromium	0.357	0.010	0.00024	mg/L	0.399	<0.010	89.1	75-125	0.574	20	
Copper	0.361	0.020	0.0014	mg/L	0.399	<0.020	89.8	75-125	0.624	20	
Lead	0.361	0.0030	0.00068	mg/L	0.399	<0.0030	90.5	75-125	0.0711	20	
Nickel	0.361	0.0050	0.00028	mg/L	0.399	<0.0050	89.7	75-125	0.403	20	
Selenium	0.362	0.020	0.0022	mg/L	0.399	<0.020	89.9	75-125	0.143	20	
Silver	0.0360	0.0050	0.00018	mg/L	0.0399	<0.0050	90.2	75-125	0.536	20	
Zinc	0.357	0.020	0.0044	mg/L	0.399	<0.020	88.3	75-125	0.459	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Neppi	Work Order #: 0902812 Date Reported: 07/02/09
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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F2406 - EPA 245.1/7470A Digestion											
Blank (B9F2406-BLK1) Prepared: 06/24/09 Analyzed: 06/25/09											
Mercury	< 0.00020	0.00020	0.000031	mg/L							
LCS (B9F2406-BS1) Prepared: 06/24/09 Analyzed: 06/25/09											
Mercury	0.00196	0.00020	0.000031	mg/L	0.00200		98.0	80-120			
LCS Dup (B9F2406-BSD1) Prepared: 06/24/09 Analyzed: 06/25/09											
Mercury	0.00201	0.00020	0.000031	mg/L	0.00200		100	80-120	2.52	20	
Matrix Spike (B9F2406-MS1) Source: 0902812-01 Prepared: 06/24/09 Analyzed: 06/25/09											
Mercury	0.00203	0.00020	0.000031	mg/L	0.00200	<0.00020	102	75-125			
Matrix Spike Dup (B9F2406-MSD1) Source: 0902812-01 Prepared: 06/24/09 Analyzed: 06/25/09											
Mercury	0.00192	0.00020	0.000031	mg/L	0.00200	<0.00020	96.0	75-125	5.57	20	
Batch B9F2412 - EPA 200.8 Digestion											
Blank (B9F2412-BLK1) Prepared: 06/24/09 Analyzed: 06/25/09											
Antimony	< 0.50	0.50	0.046	ug/L							
Beryllium	< 0.50	0.50	0.027	ug/L							
Thallium	< 0.50	0.50	0.0081	ug/L							
LCS (B9F2412-BS1) Prepared: 06/24/09 Analyzed: 06/25/09											
Antimony	18.4	0.50	0.046	ug/L	20.0		92.2	80-120			
Beryllium	19.6	0.50	0.027	ug/L	20.0		97.8	80-120			
Thallium	19.2	0.50	0.0081	ug/L	20.0		96.1	80-120			
LCS Dup (B9F2412-BSD1) Prepared: 06/24/09 Analyzed: 06/25/09											
Antimony	19.8	0.50	0.046	ug/L	20.0		98.8	80-120	6.90	20	
Beryllium	18.5	0.50	0.027	ug/L	20.0		92.7	80-120	5.34	20	
Thallium	19.3	0.50	0.0081	ug/L	20.0		96.5	80-120	0.438	20	
Matrix Spike (B9F2412-MS1) Source: 0902812-04 Prepared: 06/24/09 Analyzed: 06/25/09											
Antimony	19.3	0.50	0.046	ug/L	20.0	<0.50	96.4	75-125			
Beryllium	3.75	0.50	0.027	ug/L	20.0	<0.50	17.6	75-125			M2
Thallium	19.5	0.50	0.0081	ug/L	20.0	<0.50	97.0	75-125			
Matrix Spike Dup (B9F2412-MSD1) Source: 0902812-04 Prepared: 06/24/09 Analyzed: 06/25/09											
Antimony	19.4	0.50	0.046	ug/L	20.0	<0.50	97.0	75-125	0.576	20	
Beryllium	3.82	0.50	0.027	ug/L	20.0	<0.50	17.9	75-125	1.98	20	M2
Thallium	19.9	0.50	0.0081	ug/L	20.0	<0.50	98.9	75-125	1.86	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Nepl	Work Order #: 0902812 Date Reported: 07/02/09
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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2413 - EPA 200.7/3005A Digestion

Blank (B9F2413-BLK1)

Prepared: 06/24/09 Analyzed: 06/25/09

Arsenic	< 0.010	0.010	0.0020	mg/L							
Cadmium	< 0.0010	0.0010	0.000099	mg/L							
Chromium	< 0.010	0.010	0.00024	mg/L							
Copper	< 0.020	0.020	0.0014	mg/L							
Lead	< 0.0030	0.0030	0.00068	mg/L							
Nickel	< 0.0050	0.0050	0.00028	mg/L							
Selenium	< 0.020	0.020	0.0022	mg/L							
Silver	< 0.0050	0.0050	0.00018	mg/L							
Zinc	< 0.020	0.020	0.0044	mg/L							

LCS (B9F2413-BS1)

Prepared: 06/24/09 Analyzed: 06/25/09

Arsenic	0.372	0.010	0.0020	mg/L	0.399		93.3	80-120			
Cadmium	0.391	0.0010	0.000099	mg/L	0.399		98.1	80-120			
Chromium	0.385	0.010	0.00024	mg/L	0.399		96.4	80-120			
Copper	0.379	0.020	0.0014	mg/L	0.399		94.9	80-120			
Lead	0.392	0.0030	0.00068	mg/L	0.399		98.4	80-120			
Nickel	0.388	0.0050	0.00028	mg/L	0.399		97.2	80-120			
Selenium	0.369	0.020	0.0022	mg/L	0.399		92.4	80-120			
Silver	0.0380	0.0050	0.00018	mg/L	0.0399		95.4	80-120			
Zinc	0.384	0.020	0.0044	mg/L	0.399		96.4	80-120			

LCS Dup (B9F2413-BSD1)

Prepared: 06/24/09 Analyzed: 06/25/09

Arsenic	0.365	0.010	0.0020	mg/L	0.399		91.5	80-120	2.02	20	
Cadmium	0.384	0.0010	0.000099	mg/L	0.399		96.2	80-120	1.91	20	
Chromium	0.375	0.010	0.00024	mg/L	0.399		94.1	80-120	2.41	20	
Copper	0.371	0.020	0.0014	mg/L	0.399		92.9	80-120	2.15	20	
Lead	0.384	0.0030	0.00068	mg/L	0.399		96.3	80-120	2.10	20	
Nickel	0.380	0.0050	0.00028	mg/L	0.399		95.2	80-120	2.13	20	
Selenium	0.363	0.020	0.0022	mg/L	0.399		91.1	80-120	1.48	20	
Silver	0.0374	0.0050	0.00018	mg/L	0.0399		93.6	80-120	1.85	20	
Zinc	0.370	0.020	0.0044	mg/L	0.399		92.8	80-120	3.72	20	

Matrix Spike (B9F2413-MS1)

Source: 0902812-04

Prepared: 06/24/09 Analyzed: 06/25/09

Arsenic	0.363	0.010	0.0020	mg/L	0.399	<0.010	90.9	75-125			
Cadmium	0.381	0.0010	0.000099	mg/L	0.399	<0.0010	95.6	75-125			
Chromium	0.374	0.010	0.00024	mg/L	0.399	<0.010	93.6	75-125			
Copper	0.369	0.020	0.0014	mg/L	0.399	<0.020	92.5	75-125			
Lead	0.382	0.0030	0.00068	mg/L	0.399	0.00639	94.0	75-125			
Nickel	0.379	0.0050	0.00028	mg/L	0.399	<0.0050	94.5	75-125			
Selenium	0.364	0.020	0.0022	mg/L	0.399	<0.020	91.2	75-125			
Silver	0.0372	0.0050	0.00018	mg/L	0.0399	0.0106	66.6	75-125			M2

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Neppi	Work Order #: 0902812 Date Reported: 07/02/09
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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F2413 - EPA 200.7/3005A Digestion											
Matrix Spike (B9F2413-MS1)		Source: 0902812-04				Prepared: 06/24/09		Analyzed: 06/25/09			
Zinc	0.382	0.020	0.0044	mg/L	0.399	0.135	61.9	75-125			M2
Matrix Spike Dup (B9F2413-MSD1)											
Matrix Spike Dup (B9F2413-MSD1)		Source: 0902812-04				Prepared: 06/24/09		Analyzed: 06/25/09			
Arsenic	0.370	0.010	0.0020	mg/L	0.399	<0.010	92.8	75-125	2.15	20	
Cadmium	0.389	0.0010	0.000099	mg/L	0.399	<0.0010	97.4	75-125	1.90	20	
Chromium	0.382	0.010	0.00024	mg/L	0.399	<0.010	95.6	75-125	2.06	20	
Copper	0.378	0.020	0.0014	mg/L	0.399	<0.020	94.7	75-125	2.30	20	
Lead	0.391	0.0030	0.00068	mg/L	0.399	0.00639	96.3	75-125	2.33	20	
Nickel	0.386	0.0050	0.00028	mg/L	0.399	<0.0050	96.4	75-125	1.96	20	
Selenium	0.369	0.020	0.0022	mg/L	0.399	<0.020	92.6	75-125	1.49	20	
Silver	0.0379	0.0050	0.00018	mg/L	0.0399	0.0106	68.4	75-125	1.98	20	M2
Zinc	0.383	0.020	0.0044	mg/L	0.399	0.135	62.3	75-125	0.492	20	M2

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Nepl	Work Order #: 0902812 Date Reported: 07/02/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1507 - EPA 3510C (Sep Funnel)

Blank (B9F1507-BLK1)

Prepared: 06/15/09 Analyzed: 06/16/09

4,4'-DDD	< 0.037	0.40	0.037	ug/L							
4,4'-DDE	< 0.037	0.40	0.037	ug/L							
4,4'-DDT	< 0.042	0.40	0.042	ug/L							
a-Chlordane	< 0.038	0.40	0.038	ug/L							
Aldrin	< 0.039	0.40	0.039	ug/L							
alpha-BHC	< 0.045	0.40	0.045	ug/L							
beta-BHC	< 0.053	0.40	0.053	ug/L							
delta-BHC	< 0.046	0.40	0.046	ug/L							
Dieldrin	< 0.037	0.40	0.037	ug/L							
Endosulfan I	< 0.040	0.40	0.040	ug/L							
Endosulfan II	< 0.041	0.40	0.041	ug/L							
Endosulfan sulfate	< 0.045	0.40	0.045	ug/L							
Endrin	< 0.042	0.40	0.042	ug/L							
Endrin aldehyde	< 0.051	0.40	0.051	ug/L							
Endrin ketone	< 0.042	0.40	0.042	ug/L							
gamma-BHC (Lindane)	< 0.047	0.40	0.047	ug/L							
gamma-Chlordane	< 0.037	0.40	0.037	ug/L							
Heptachlor	< 0.039	0.40	0.039	ug/L							
Heptachlor epoxide	< 0.041	0.40	0.041	ug/L							
Methoxychlor	< 0.045	0.40	0.045	ug/L							
Toxaphene	< 0.19	1.0	0.19	ug/L							
Surrogate: Decachlorobiphenyl	0.860			ug/L	1.00		86.0	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.770			ug/L	1.00		77.0	71.7-111			

LCS (B9F1507-BS1)

Prepared: 06/15/09 Analyzed: 06/16/09

4,4'-DDD	1.12	0.40	0.037	ug/L	1.25		89.6	70-130			
4,4'-DDE	1.10	0.40	0.037	ug/L	1.25		87.6	70-130			
4,4'-DDT	1.14	0.40	0.042	ug/L	1.25		91.2	70-130			
a-Chlordane	1.08	0.40	0.038	ug/L	1.25		86.8	70-130			
Aldrin	1.04	0.40	0.039	ug/L	1.25		83.2	70-130			
alpha-BHC	1.09	0.40	0.045	ug/L	1.25		87.2	70-130			
beta-BHC	1.05	0.40	0.053	ug/L	1.25		84.0	70-130			
delta-BHC	1.10	0.40	0.046	ug/L	1.25		88.4	70-130			
Dieldrin	1.08	0.40	0.037	ug/L	1.25		86.8	70-130			
Endosulfan I	1.09	0.40	0.040	ug/L	1.25		87.2	70-130			
Endosulfan II	1.10	0.40	0.041	ug/L	1.25		87.6	70-130			
Endosulfan sulfate	1.10	0.40	0.045	ug/L	1.25		87.6	70-130			
Endrin	1.12	0.40	0.042	ug/L	1.25		89.2	70-130			
Endrin aldehyde	1.14	0.40	0.051	ug/L	1.25		91.6	70-130			
Endrin ketone	1.10	0.40	0.042	ug/L	1.25		88.0	70-130			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Neppi	Work Order #: 0902812 Date Reported: 07/02/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1507 - EPA 3510C (Sep Funnel)

LCS (B9F1507-BS1)

Prepared: 06/15/09 Analyzed: 06/16/09

gamma-BHC (Lindane)	1.10	0.40	0.047	ug/L	1.25		88.0	70-130			
gamma-Chlordane	1.06	0.40	0.037	ug/L	1.25		85.2	70-130			
Heptachlor	1.06	0.40	0.039	ug/L	1.25		85.2	70-130			
Heptachlor epoxide	1.09	0.40	0.041	ug/L	1.25		87.2	70-130			
Methoxychlor	1.15	0.40	0.045	ug/L	1.25		92.0	70-130			
Surrogate: Decachlorobiphenyl	0.920			ug/L	1.00		92.0	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.855			ug/L	1.00		85.5	71.7-111			

LCS Dup (B9F1507-BSD1)

Prepared: 06/15/09 Analyzed: 06/17/09

Q9, QM-10

4,4'-DDD	1.16	0.40	0.037	ug/L	1.25		92.4	70-130	3.08	20	
4,4'-DDE	1.15	0.40	0.037	ug/L	1.25		92.0	70-130	4.90	20	
4,4'-DDT	1.22	0.40	0.042	ug/L	1.25		97.2	70-130	6.37	20	
a-Chlordane	1.15	0.40	0.038	ug/L	1.25		92.0	70-130	5.82	20	
Aldrin	1.11	0.40	0.039	ug/L	1.25		88.8	70-130	6.51	20	
alpha-BHC	1.17	0.40	0.045	ug/L	1.25		93.6	70-130	7.08	20	
beta-BHC	1.12	0.40	0.053	ug/L	1.25		89.6	70-130	6.45	20	
delta-BHC	1.18	0.40	0.046	ug/L	1.25		94.4	70-130	6.56	20	
Dieldrin	1.15	0.40	0.037	ug/L	1.25		92.0	70-130	5.82	20	
Endosulfan I	1.15	0.40	0.040	ug/L	1.25		92.0	70-130	5.36	20	
Endosulfan II	1.14	0.40	0.041	ug/L	1.25		91.2	70-130	4.03	20	
Endosulfan sulfate	1.16	0.40	0.045	ug/L	1.25		92.4	70-130	5.33	20	
Endrin	1.19	0.40	0.042	ug/L	1.25		95.2	70-130	6.51	20	
Endrin aldehyde	1.18	0.40	0.051	ug/L	1.25		94.4	70-130	3.01	20	
Endrin ketone	1.14	0.40	0.042	ug/L	1.25		91.6	70-130	4.01	20	
gamma-BHC (Lindane)	1.18	0.40	0.047	ug/L	1.25		94.0	70-130	6.59	20	
gamma-Chlordane	1.12	0.40	0.037	ug/L	1.25		90.0	70-130	5.48	20	
Heptachlor	1.14	0.40	0.039	ug/L	1.25		91.6	70-130	7.24	20	
Heptachlor epoxide	1.16	0.40	0.041	ug/L	1.25		92.8	70-130	6.22	20	
Methoxychlor	1.22	0.40	0.045	ug/L	1.25		97.2	70-130	5.50	20	
Surrogate: Decachlorobiphenyl	0.920			ug/L	1.00		92.0	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.915			ug/L	1.00		91.5	71.7-111			

Matrix Spike (B9F1507-MS1)

Source: 0902812-04

Prepared: 06/15/09 Analyzed: 06/17/09

4,4'-DDD	1.13	0.37	0.034	ug/L	1.16	<0.37	98.0	70-130			
4,4'-DDE	1.15	0.37	0.034	ug/L	1.16	<0.37	99.6	70-130			
4,4'-DDT	1.21	0.37	0.039	ug/L	1.16	<0.37	105	70-130			
a-Chlordane	1.15	0.37	0.035	ug/L	1.16	<0.37	99.6	70-130			
Aldrin	1.15	0.37	0.036	ug/L	1.16	<0.37	99.6	70-130			
alpha-BHC	1.13	0.37	0.042	ug/L	1.16	<0.37	98.0	70-130			
beta-BHC	1.06	0.37	0.049	ug/L	1.16	<0.37	92.0	70-130			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Neppi	Work Order #: 0902812 Date Reported: 07/02/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1507 - EPA 3510C (Sep Funnel)

Matrix Spike (B9F1507-MS1)

Source: 0902812-04

Prepared: 06/15/09 Analyzed: 06/17/09

delta-BHC	1.13	0.37	0.043	ug/L	1.16	<0.37	98.0	70-130			
Dieldrin	1.14	0.37	0.034	ug/L	1.16	<0.37	98.8	70-130			
Endosulfan I	1.15	0.37	0.037	ug/L	1.16	<0.37	99.2	70-130			
Endosulfan II	1.13	0.37	0.038	ug/L	1.16	<0.37	97.6	70-130			
Endosulfan sulfate	1.13	0.37	0.042	ug/L	1.16	<0.37	98.0	70-130			
Endrin	1.19	0.37	0.039	ug/L	1.16	<0.37	102	70-130			
Endrin aldehyde	1.13	0.37	0.047	ug/L	1.16	<0.37	98.0	70-130			
Endrin ketone	1.12	0.37	0.039	ug/L	1.16	<0.37	96.4	70-130			
gamma-BHC (Lindane)	1.13	0.37	0.044	ug/L	1.16	<0.37	98.0	70-130			
gamma-Chlordane	1.12	0.37	0.034	ug/L	1.16	<0.37	97.2	70-130			
Heptachlor	1.16	0.37	0.036	ug/L	1.16	<0.37	100	70-130			
Heptachlor epoxide	1.15	0.37	0.038	ug/L	1.16	<0.37	99.6	70-130			
Methoxychlor	1.20	0.37	0.042	ug/L	1.16	<0.37	104	70-130			
Surrogate: Decachlorobiphenyl	0.894			ug/L	0.926		96.5	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.921			ug/L	0.926		99.5	71.7-111			

Batch B9F1802 - EPA 3510C (Sep Funnel)

Blank (B9F1802-BLK1)

Prepared: 06/18/09 Analyzed: 06/25/09

4,4'-DDD	< 0.037	0.40	0.037	ug/L							
4,4'-DDE	< 0.037	0.40	0.037	ug/L							
4,4'-DDT	< 0.042	0.40	0.042	ug/L							
a-Chlordane	< 0.038	0.40	0.038	ug/L							
Aldrin	< 0.039	0.40	0.039	ug/L							
alpha-BHC	< 0.045	0.40	0.045	ug/L							
beta-BHC	< 0.053	0.40	0.053	ug/L							
delta-BHC	< 0.046	0.40	0.046	ug/L							
Dieldrin	< 0.037	0.40	0.037	ug/L							
Endosulfan I	< 0.040	0.40	0.040	ug/L							
Endosulfan II	< 0.041	0.40	0.041	ug/L							
Endosulfan sulfate	< 0.045	0.40	0.045	ug/L							
Endrin	< 0.042	0.40	0.042	ug/L							
Endrin aldehyde	< 0.051	0.40	0.051	ug/L							
Endrin ketone	< 0.042	0.40	0.042	ug/L							
gamma-BHC (Lindane)	< 0.047	0.40	0.047	ug/L							
gamma-Chlordane	< 0.037	0.40	0.037	ug/L							
Heptachlor	< 0.039	0.40	0.039	ug/L							
Heptachlor epoxide	< 0.041	0.40	0.041	ug/L							
Methoxychlor	< 0.045	0.40	0.045	ug/L							
Toxaphene	< 0.19	1.0	0.19	ug/L							
Surrogate: Decachlorobiphenyl	0.970			ug/L	1.00		97.0	80.6-122			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Neppi	Work Order #: 0902812 Date Reported: 07/02/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1802 - EPA 3510C (Sep Funnel)

Blank (B9F1802-BLK1)

Prepared: 06/18/09 Analyzed: 06/25/09

<i>Surrogate: Tetrachloro-meta-xylene</i>	0.910			ug/L	1.00		91.0	71.7-111			
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LCS (B9F1802-BS1)

Prepared: 06/18/09 Analyzed: 06/25/09

4,4'-DDD	1.10	0.40	0.037	ug/L	1.25		88.4	70-130			
4,4'-DDE	1.10	0.40	0.037	ug/L	1.25		88.0	70-130			
4,4'-DDT	1.09	0.40	0.042	ug/L	1.25		87.2	70-130			
a-Chlordane	1.10	0.40	0.038	ug/L	1.25		88.0	70-130			
Aldrin	1.08	0.40	0.039	ug/L	1.25		86.4	70-130			
alpha-BHC	1.12	0.40	0.045	ug/L	1.25		89.2	70-130			
beta-BHC	1.06	0.40	0.053	ug/L	1.25		85.2	70-130			
delta-BHC	1.12	0.40	0.046	ug/L	1.25		89.2	70-130			
Dieldrin	1.10	0.40	0.037	ug/L	1.25		88.4	70-130			
Endosulfan I	1.12	0.40	0.040	ug/L	1.25		89.2	70-130			
Endosulfan II	1.12	0.40	0.041	ug/L	1.25		89.2	70-130			
Endosulfan sulfate	1.12	0.40	0.045	ug/L	1.25		90.0	70-130			
Endrin	1.14	0.40	0.042	ug/L	1.25		91.2	70-130			
Endrin aldehyde	1.16	0.40	0.051	ug/L	1.25		93.2	70-130			
Endrin ketone	1.12	0.40	0.042	ug/L	1.25		89.2	70-130			
gamma-BHC (Lindane)	1.12	0.40	0.047	ug/L	1.25		89.6	70-130			
gamma-Chlordane	1.08	0.40	0.037	ug/L	1.25		86.8	70-130			
Heptachlor	1.10	0.40	0.039	ug/L	1.25		88.0	70-130			
Heptachlor epoxide	1.12	0.40	0.041	ug/L	1.25		89.6	70-130			
Methoxychlor	1.14	0.40	0.045	ug/L	1.25		90.8	70-130			
<i>Surrogate: Decachlorobiphenyl</i>	0.925			ug/L	1.00		92.5	80.6-122			
<i>Surrogate: Tetrachloro-meta-xylene</i>	0.905			ug/L	1.00		90.5	71.7-111			

LCS Dup (B9F1802-BSD1)

Prepared: 06/18/09 Analyzed: 06/25/09

Q9, QM-10

4,4'-DDD	1.20	0.40	0.037	ug/L	1.25		95.6	70-130	7.83	20	
4,4'-DDE	1.20	0.40	0.037	ug/L	1.25		96.0	70-130	8.70	20	
4,4'-DDT	1.21	0.40	0.042	ug/L	1.25		96.8	70-130	10.4	20	
a-Chlordane	1.18	0.40	0.038	ug/L	1.25		94.8	70-130	7.44	20	
Aldrin	1.19	0.40	0.039	ug/L	1.25		95.2	70-130	9.69	20	
alpha-BHC	1.20	0.40	0.045	ug/L	1.25		96.0	70-130	7.34	20	
beta-BHC	1.14	0.40	0.053	ug/L	1.25		91.6	70-130	7.24	20	
delta-BHC	1.20	0.40	0.046	ug/L	1.25		95.6	70-130	6.93	20	
Dieldrin	1.19	0.40	0.037	ug/L	1.25		95.2	70-130	7.41	20	
Endosulfan I	1.20	0.40	0.040	ug/L	1.25		95.6	70-130	6.93	20	
Endosulfan II	1.19	0.40	0.041	ug/L	1.25		95.2	70-130	6.51	20	
Endosulfan sulfate	1.20	0.40	0.045	ug/L	1.25		96.0	70-130	6.45	20	
Endrin	1.22	0.40	0.042	ug/L	1.25		98.0	70-130	7.19	20	
Endrin aldehyde	1.26	0.40	0.051	ug/L	1.25		101	70-130	8.23	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Neppi	Work Order #: 0902812 Date Reported: 07/02/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1802 - EPA 3510C (Sep Funnel)											
LCS Dup (B9F1802-BSD1)											
						Prepared: 06/18/09	Analyzed: 06/25/09				Q9, QM-10
Endrin ketone	1.20	0.40	0.042	ug/L	1.25		96.0	70-130	7.34	20	
gamma-BHC (Lindane)	1.20	0.40	0.047	ug/L	1.25		96.4	70-130	7.31	20	
gamma-Chlordane	1.17	0.40	0.037	ug/L	1.25		93.6	70-130	7.54	20	
Heptachlor	1.19	0.40	0.039	ug/L	1.25		95.2	70-130	7.86	20	
Heptachlor epoxide	1.20	0.40	0.041	ug/L	1.25		96.0	70-130	6.90	20	
Methoxychlor	1.22	0.40	0.045	ug/L	1.25		98.0	70-130	7.63	20	
Surrogate: Decachlorobiphenyl	0.990			ug/L	1.00		99.0	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.950			ug/L	1.00		95.0	71.7-111			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Neppl	Work Order #: 0902812 Date Reported: 07/02/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1702 - EPA 3510C (Sep Funnel)

Blank (B9F1702-BLK1)

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	< 0.19	10	0.19	ug/L							
1,2-Dichlorobenzene	< 0.23	10	0.23	ug/L							
1,2-Diphenylhydrazine as Azobenzene	< 0.24	10	0.24	ug/L							
1,3-Dichlorobenzene	< 0.21	10	0.21	ug/L							
1,4-Dichlorobenzene	< 0.22	10	0.22	ug/L							
2,3,4,6-Tetrachlorophenol	< 0.61	10	0.61	ug/L							
2,4,5-Trichlorophenol	< 0.80	10	0.80	ug/L							
2,4,6-Trichlorophenol	< 0.48	10	0.48	ug/L							
2,4-Dichlorophenol	< 0.47	10	0.47	ug/L							
2,4-Dimethylphenol	< 1.6	10	1.6	ug/L							
2,4-Dinitrophenol	< 1.0	10	1.0	ug/L							
2,4-Dinitrotoluene	< 0.33	10	0.33	ug/L							
2,6-Dichlorophenol	< 0.48	10	0.48	ug/L							
2,6-Dinitrotoluene	< 0.36	10	0.36	ug/L							
2-Chloronaphthalene	< 0.28	10	0.28	ug/L							
2-Chlorophenol	< 0.45	10	0.45	ug/L							
2-Methylnaphthalene	< 0.66	10	0.66	ug/L							
2-Methylphenol	< 0.63	10	0.63	ug/L							
2-Nitroaniline	< 0.72	10	0.72	ug/L							
2-Nitrophenol	< 0.90	10	0.90	ug/L							
3,3'-Dichlorobenzidine	< 7.3	25	7.3	ug/L							
3-Nitroaniline	< 1.2	10	1.2	ug/L							
4,6-Dinitro-2-methylphenol	< 0.65	10	0.65	ug/L							
4-Bromophenyl phenyl ether	< 0.17	10	0.17	ug/L							
4-Chloro-3-methylphenol	< 0.55	10	0.55	ug/L							
4-Chloroaniline	< 2.3	10	2.3	ug/L							
4-Chlorophenyl phenyl ether	< 0.25	10	0.25	ug/L							
4-Methylphenol	< 0.79	10	0.79	ug/L							
4-Nitroaniline	< 0.59	10	0.59	ug/L							
4-Nitrophenol	< 1.2	10	1.2	ug/L							
Acenaphthene	< 0.36	10	0.36	ug/L							
Acenaphthylene	< 0.25	10	0.25	ug/L							
Aniline	< 2.2	10	2.2	ug/L							
Anthracene	< 0.37	10	0.37	ug/L							
Benzidine	< 18	100	18	ug/L							
Benzo (a) anthracene	< 0.37	10	0.37	ug/L							
Benzo (a) pyrene	< 0.29	10	0.29	ug/L							
Benzo (b) fluoranthene	< 0.22	10	0.22	ug/L							
Benzo (g,h,i) perylene	< 0.26	10	0.26	ug/L							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Neppi	Work Order #: 0902812 Date Reported: 07/02/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1702 - EPA 3510C (Sep Funnel)

Blank (B9F1702-BLK1)

Prepared: 06/17/09 Analyzed: 06/18/09

Benzo (k) fluoranthene	< 0.31	10	0.31	ug/L							
Benzoic acid	< 1.2	10	1.2	ug/L							
Benzyl alcohol	< 0.54	10	0.54	ug/L							
Bis(2-chloroethoxy)methane	< 0.18	10	0.18	ug/L							
Bis(2-chloroethyl)ether	< 0.17	10	0.17	ug/L							
Bis(2-chloroisopropyl)ether	< 0.19	10	0.19	ug/L							
Bis(2-ethylhexyl)phthalate	< 0.43	10	0.43	ug/L							
Butyl benzyl phthalate	< 0.37	10	0.37	ug/L							
Carbazole	< 0.26	10	0.26	ug/L							
Chrysene	< 0.27	10	0.27	ug/L							
Dibenz (a,h) anthracene	< 0.23	10	0.23	ug/L							
Dibenzofuran	< 0.39	10	0.39	ug/L							
Diethyl phthalate	< 0.23	10	0.23	ug/L							
Dimethyl phthalate	< 0.24	10	0.24	ug/L							
Di-n-butyl phthalate	< 0.28	10	0.28	ug/L							
Di-n-octyl phthalate	< 0.38	10	0.38	ug/L							
Fluoranthene	< 0.39	10	0.39	ug/L							
Fluorene	< 0.40	10	0.40	ug/L							
Hexachlorobenzene	< 0.20	10	0.20	ug/L							
Hexachlorobutadiene	< 0.26	10	0.26	ug/L							
Hexachlorocyclopentadiene	< 0.31	10	0.31	ug/L							
Hexachloroethane	< 0.31	10	0.31	ug/L							
Indeno (1,2,3-cd) pyrene	< 0.31	10	0.31	ug/L							
Isophorone	< 0.23	10	0.23	ug/L							
Naphthalene	< 0.37	10	0.37	ug/L							
Nitrobenzene	< 0.39	10	0.39	ug/L							
N-Nitrosodimethylamine	< 0.95	10	0.95	ug/L							
N-Nitrosodi-n-propylamine	< 0.21	10	0.21	ug/L							
N-Nitrosodiphenylamine	< 0.23	10	0.23	ug/L							
Pentachlorophenol	< 0.59	10	0.59	ug/L							
Phenanthrene	< 0.39	10	0.39	ug/L							
Phenol	< 0.57	10	0.57	ug/L							
Pyrene	< 0.47	10	0.47	ug/L							
Surrogate: 2,4,6-Tribromophenol	77.8			ug/L	100		77.8	48.5-114			
Surrogate: 2-Fluorobiphenyl	75.6			ug/L	100		75.6	41.7-98.4			
Surrogate: 2-Fluorophenol	55.9			ug/L	100		55.9	30-93.5			
Surrogate: Nitrobenzene-d5	75.2			ug/L	100		75.2	47.4-97.8			
Surrogate: Phenol-d6	47.2			ug/L	100		47.2	30-91.5			
Surrogate: Terphenyl-d14	87.7			ug/L	100		87.7	30-108			

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05SWOC300
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902812
 Date Reported: 07/02/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1702 - EPA 3510C (Sep Funnel)

LCS (B9F1702-BS1)

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	61.8	10	0.19	ug/L	100		61.8	48.2-88.3			
1,4-Dichlorobenzene	53.4	10	0.22	ug/L	100		53.4	42.8-82.2			
2,4-Dinitrotoluene	76.7	10	0.33	ug/L	100		76.7	64.6-98.9			
2-Chlorophenol	70.2	10	0.45	ug/L	100		70.2	56.5-88.1			
4-Chloro-3-methylphenol	78.4	10	0.55	ug/L	100		78.4	63.4-95.2			
4-Nitrophenol	56.6	10	1.2	ug/L	100		56.6	51.3-90.6			
Anthracene	89.9	10	0.37	ug/L	100		89.9	66.7-92.8			
Benzo (a) anthracene	83.1	10	0.37	ug/L	100		83.1	72.7-97.2			
Benzo (a) pyrene	80.3	10	0.29	ug/L	100		80.3	66.4-101			
Chrysene	81.3	10	0.27	ug/L	100		81.3	71.5-98.1			
Fluoranthene	89.7	10	0.39	ug/L	100		89.7	68.8-94			
Fluorene	87.1	10	0.40	ug/L	100		87.1	64.2-94.4			
N-Nitrosodi-n-propylamine	76.3	10	0.21	ug/L	100		76.3	63.6-92.8			
Pentachlorophenol	72.9	10	0.59	ug/L	100		72.9	60.2-101			
Phenanthrene	86.1	10	0.39	ug/L	100		86.1	68.1-94.8			
Phenol	45.4	10	0.57	ug/L	100		45.4	39.6-71			
Surrogate: 2,4,6-Tribromophenol	77.0			ug/L	100		77.0	48.5-114			
Surrogate: 2-Fluorobiphenyl	72.7			ug/L	100		72.7	41.7-98.4			
Surrogate: 2-Fluorophenol	58.2			ug/L	100		58.2	30-93.5			
Surrogate: Nitrobenzene-d5	71.4			ug/L	100		71.4	47.4-97.8			
Surrogate: Phenol-d6	50.7			ug/L	100		50.7	30-91.5			
Surrogate: Terphenyl-d14	72.0			ug/L	100		72.0	30-108			

Matrix Spike (B9F1702-MS1)

Source: 0902812-03

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	50.3	9.3	0.18	ug/L	92.6	<9.3	54.4	43.8-87.4			
1,4-Dichlorobenzene	47.7	9.3	0.20	ug/L	92.6	<9.3	51.5	43.7-78.7			
2,4-Dinitrotoluene	61.6	9.3	0.31	ug/L	92.6	<9.3	66.5	52.8-100			
2-Chlorophenol	33.7	9.3	0.42	ug/L	92.6	<9.3	36.4	30.1-95			
4-Chloro-3-methylphenol	40.4	9.3	0.51	ug/L	92.6	<9.3	43.6	44.8-98.7			M2
4-Nitrophenol	27.9	9.3	1.1	ug/L	92.6	<9.3	30.1	32.5-99.6			M2
Anthracene	57.3	9.3	0.34	ug/L	92.6	<9.3	61.9	44.8-97.6			
Benzo (a) anthracene	50.8	9.3	0.34	ug/L	92.6	<9.3	54.8	30-115			
Benzo (a) pyrene	46.7	9.3	0.27	ug/L	92.6	<9.3	50.4	30-110			
Chrysene	48.2	9.3	0.25	ug/L	92.6	<9.3	52.1	30-115			
Fluoranthene	58.3	9.3	0.36	ug/L	92.6	<9.3	63.0	37.4-103			
Fluorene	59.0	9.3	0.37	ug/L	92.6	<9.3	63.8	49.6-92.1			
N-Nitrosodi-n-propylamine	61.9	9.3	0.19	ug/L	92.6	<9.3	66.8	44.9-100			
Pentachlorophenol	43.2	9.3	0.55	ug/L	92.6	<9.3	46.6	31.2-123			
Phenanthrene	57.5	9.3	0.36	ug/L	92.6	<9.3	62.1	47-99.1			
Phenol	20.1	9.3	0.53	ug/L	92.6	<9.3	21.7	30-79.5			M2

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Nepl	Work Order #: 0902812 Date Reported: 07/02/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1702 - EPA 3510C (Sep Funnel)

Matrix Spike (B9F1702-MS1)

Source: 0902812-03

Prepared: 06/17/09 Analyzed: 06/18/09

Surrogate: 2,4,6-Tribromophenol	39.2			ug/L	92.6		42.4	48.5-114			S-02
Surrogate: 2-Fluorobiphenyl	47.5			ug/L	92.6		51.3	41.7-98.4			
Surrogate: 2-Fluorophenol	25.3			ug/L	92.6		27.3	30-93.5			S-02
Surrogate: Nitrobenzene-d5	59.7			ug/L	92.6		64.5	47.4-97.8			
Surrogate: Phenol-d6	21.9			ug/L	92.6		23.7	30-91.5			S-02
Surrogate: Terphenyl-d14	39.1			ug/L	92.6		42.2	30-108			

Matrix Spike Dup (B9F1702-MSD1)

Source: 0902812-03

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	55.8	9.3	0.18	ug/L	92.6	<9.3	60.3	43.8-87.4	10.4	28.2	
1,4-Dichlorobenzene	52.3	9.3	0.20	ug/L	92.6	<9.3	56.5	43.7-78.7	9.34	25	
2,4-Dinitrotoluene	63.6	9.3	0.31	ug/L	92.6	<9.3	68.7	52.8-100	3.28	15	
2-Chlorophenol	31.9	9.3	0.42	ug/L	92.6	<9.3	34.5	30.1-95	5.46	27.5	
4-Chloro-3-methylphenol	36.5	9.3	0.51	ug/L	92.6	<9.3	39.4	44.8-98.7	10.1	27.6	M2
4-Nitrophenol	26.8	9.3	1.1	ug/L	92.6	<9.3	28.9	32.5-99.6	3.99	35	M2
Anthracene	57.2	9.3	0.34	ug/L	92.6	<9.3	61.8	44.8-97.6	0.154	21	
Benzo (a) anthracene	49.1	9.3	0.34	ug/L	92.6	<9.3	53.0	30-115	3.36	33.7	
Benzo (a) pyrene	43.9	9.3	0.27	ug/L	92.6	<9.3	47.5	30-110	6.00	33.8	
Chrysene	46.3	9.3	0.25	ug/L	92.6	<9.3	50.0	30-115	4.05	35.1	
Fluoranthene	58.7	9.3	0.36	ug/L	92.6	<9.3	63.4	37.4-103	0.555	29.1	
Fluorene	61.4	9.3	0.37	ug/L	92.6	<9.3	66.4	49.6-92.1	4.00	19.7	
N-Nitrosodi-n-propylamine	64.2	9.3	0.19	ug/L	92.6	<9.3	69.4	44.9-100	3.71	18.6	
Pentachlorophenol	34.8	9.3	0.55	ug/L	92.6	<9.3	37.6	31.2-123	21.4	32.2	
Phenanthrene	59.0	9.3	0.36	ug/L	92.6	<9.3	63.7	47-99.1	2.59	18.4	
Phenol	21.0	9.3	0.53	ug/L	92.6	<9.3	22.7	30-79.5	4.50	33.6	M2
Surrogate: 2,4,6-Tribromophenol	35.3			ug/L	92.6		38.1	48.5-114			S-02
Surrogate: 2-Fluorobiphenyl	54.2			ug/L	92.6		58.5	41.7-98.4			
Surrogate: 2-Fluorophenol	26.3			ug/L	92.6		28.4	30-93.5			S-02
Surrogate: Nitrobenzene-d5	62.8			ug/L	92.6		67.8	47.4-97.8			
Surrogate: Phenol-d6	23.6			ug/L	92.6		25.5	30-91.5			S-02
Surrogate: Terphenyl-d14	38.4			ug/L	92.6		41.5	30-108			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Neppi	Work Order #: 0902812 Date Reported: 07/02/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1709 - Volatiles

Blank (B9F1709-BLK1)

Prepared & Analyzed: 06/17/09

1,1,1,2-Tetrachloroethane	< 0.28	1.0	0.28	ug/L							
1,1,1-Trichloroethane	< 0.17	1.0	0.17	ug/L							
1,1,2,2-Tetrachloroethane	< 0.13	1.0	0.13	ug/L							
1,1,2-Trichloroethane	< 0.19	1.0	0.19	ug/L							
1,1,2-Trichlorotrifluoroethane	< 0.28	1.0	0.28	ug/L							
1,1-Dichloroethane	< 0.11	1.0	0.11	ug/L							
1,1-Dichloroethene	< 0.12	1.0	0.12	ug/L							
1,1-Dichloropropene	< 0.15	1.0	0.15	ug/L							
1,2,3-Trichlorobenzene	< 0.47	5.0	0.47	ug/L							
1,2,3-Trichloropropane	< 0.24	2.5	0.24	ug/L							
1,2,4-Trichlorobenzene	< 0.32	5.0	0.32	ug/L							
1,2,4-Trimethylbenzene	< 0.17	1.0	0.17	ug/L							
1,2-Dibromo-3-chloropropane	< 0.60	5.0	0.60	ug/L							
1,2-Dibromoethane (EDB)	< 0.37	2.5	0.37	ug/L							
1,2-Dichlorobenzene	< 0.16	1.0	0.16	ug/L							
1,2-Dichloroethane	< 0.18	1.0	0.18	ug/L							
1,2-Dichloropropane	< 0.21	1.0	0.21	ug/L							
1,3,5-Trimethylbenzene	< 0.18	1.0	0.18	ug/L							
1,3-Dichlorobenzene	< 0.21	1.0	0.21	ug/L							
1,3-Dichloropropane	< 0.15	1.0	0.15	ug/L							
1,4-Dichlorobenzene	< 0.17	1.0	0.17	ug/L							
2,2-Dichloropropane	< 0.58	5.0	0.58	ug/L							
2-Butanone	< 0.67	20	0.67	ug/L							
2-Chlorotoluene	< 0.17	1.0	0.17	ug/L							
4-Chlorotoluene	< 0.14	1.0	0.14	ug/L							
Acetone	< 2.8	20	2.8	ug/L							
Allyl chloride	< 0.76	5.0	0.76	ug/L							
Benzene	< 0.093	1.0	0.093	ug/L							
Bromobenzene	< 0.17	1.0	0.17	ug/L							
Bromochloromethane	< 0.21	1.0	0.21	ug/L							
Bromodichloromethane	< 0.22	1.0	0.22	ug/L							
Bromoform	< 0.50	5.0	0.50	ug/L							
Bromomethane	< 0.95	5.0	0.95	ug/L							
Carbon tetrachloride	< 0.16	1.0	0.16	ug/L							
Chlorobenzene	< 0.15	1.0	0.15	ug/L							
Chloroethane	< 0.46	2.5	0.46	ug/L							
Chloroform	< 0.19	1.0	0.19	ug/L							
Chloromethane	< 0.37	2.5	0.37	ug/L							
cis-1,2-Dichloroethene	< 0.19	1.0	0.19	ug/L							

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05SWOC300
 Project Manager: Ms. Kelly Nepl

Work Order #: 0902812
 Date Reported: 07/02/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1709 - Volatiles

Blank (B9F1709-BLK1)

Prepared & Analyzed: 06/17/09

cis-1,3-Dichloropropene	< 0.16	1.0	0.16	ug/L							
Dibromochloromethane	< 0.50	2.5	0.50	ug/L							
Dibromomethane	< 0.30	2.5	0.30	ug/L							
Dichlorodifluoromethane	< 0.58	5.0	0.58	ug/L							
Dichlorofluoromethane	< 0.31	1.0	0.31	ug/L							
Ethyl ether	< 0.53	5.0	0.53	ug/L							
Ethylbenzene	< 0.21	1.0	0.21	ug/L							
Hexachlorobutadiene	< 0.76	10	0.76	ug/L							
Isopropylbenzene	< 0.17	1.0	0.17	ug/L							
m,p-Xylene	< 0.42	2.0	0.42	ug/L							
Methyl isobutyl ketone	< 1.1	5.0	1.1	ug/L							
Methyl tert-butyl ether	< 0.13	1.0	0.13	ug/L							
Methylene chloride	< 0.65	5.0	0.65	ug/L							
Naphthalene	< 0.40	5.0	0.40	ug/L							
n-Butylbenzene	< 0.32	2.5	0.32	ug/L							
n-Propylbenzene	< 0.13	1.0	0.13	ug/L							
o-Xylene	< 0.18	1.0	0.18	ug/L							
p-Isopropyltoluene	< 0.30	2.5	0.30	ug/L							
sec-Butylbenzene	< 0.22	1.0	0.22	ug/L							
Styrene	< 0.13	1.0	0.13	ug/L							
tert-Butylbenzene	< 0.19	1.0	0.19	ug/L							
Tetrachloroethene	< 0.20	1.0	0.20	ug/L							
Tetrahydrofuran	< 0.77	20	0.77	ug/L							
Toluene	< 0.21	1.0	0.21	ug/L							
trans-1,2-Dichloroethene	< 0.29	1.0	0.29	ug/L							
trans-1,3-Dichloropropene	< 0.17	1.0	0.17	ug/L							
Trichloroethene	< 0.20	1.0	0.20	ug/L							
Trichlorofluoromethane	< 0.17	1.0	0.17	ug/L							
Vinyl chloride	< 0.087	1.0	0.087	ug/L							
Surrogate: 4-Bromofluorobenzene	57.5			ug/L	55.0		105	76.4-125			
Surrogate: Dibromofluoromethane	57.5			ug/L	55.0		105	80-120			
Surrogate: Toluene-d8	55.5			ug/L	55.0		101	80-125			

LCS (B9F1709-BS1)

Prepared & Analyzed: 06/17/09

1,1,2,2-Tetrachloroethane	46.5	1.0	0.13	ug/L	50.0		93.0	80-120			
1,1-Dichloroethane	56.5	1.0	0.11	ug/L	50.0		113	76.6-120			
1,1-Dichloroethene	59.3	1.0	0.12	ug/L	50.0		119	75.9-120			
1,3,5-Trimethylbenzene	49.0	1.0	0.18	ug/L	50.0		98.1	80-120			
1,4-Dichlorobenzene	45.7	1.0	0.17	ug/L	50.0		91.3	75-125			
2-Chlorotoluene	48.2	1.0	0.17	ug/L	50.0		96.4	80-120			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Nepl	Work Order #: 0902812 Date Reported: 07/02/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1709 - Volatiles

LCS (B9F1709-BS1)

Prepared & Analyzed: 06/17/09

Benzene	51.3	1.0	0.093	ug/L	50.0		103	80-120			
Bromoform	41.0	5.0	0.50	ug/L	50.0		81.9	75.4-125			
Chlorobenzene	44.6	1.0	0.15	ug/L	50.0		89.1	80-120			
Chloroform	54.9	1.0	0.19	ug/L	50.0		110	80-120			
Ethylbenzene	46.4	1.0	0.21	ug/L	50.0		92.9	80-120			
n-Butylbenzene	51.3	2.5	0.32	ug/L	50.0		103	70.6-125			
n-Propylbenzene	49.3	1.0	0.13	ug/L	50.0		98.6	79.7-120			
Toluene	50.6	1.0	0.21	ug/L	50.0		101	80-120			
Trichloroethene	50.6	1.0	0.20	ug/L	50.0		101	80-120			
Vinyl chloride	62.8	1.0	0.087	ug/L	50.0		126	75-129			
Surrogate: 4-Bromofluorobenzene	61.3			ug/L	55.0		111	76.4-125			
Surrogate: Dibromofluoromethane	57.5			ug/L	55.0		105	80-120			
Surrogate: Toluene-d8	57.4			ug/L	55.0		104	80-125			

Matrix Spike (B9F1709-MS1)

Source: 0902812-03

Prepared & Analyzed: 06/17/09

1,1,2,2-Tetrachloroethane	52.1	1.0	0.13	ug/L	50.0	<1.0	104	80-120			
1,1-Dichloroethane	55.9	1.0	0.11	ug/L	50.0	<1.0	112	78-120			
1,1-Dichloroethene	59.4	1.0	0.12	ug/L	50.0	<1.0	119	75-120			
1,3,5-Trimethylbenzene	50.3	1.0	0.18	ug/L	50.0	<1.0	101	75.8-120			
1,4-Dichlorobenzene	47.1	1.0	0.17	ug/L	50.0	<1.0	94.3	75-125			
2-Chlorotoluene	49.7	1.0	0.17	ug/L	50.0	<1.0	99.4	79.1-120			
Benzene	49.5	1.0	0.093	ug/L	50.0	<1.0	99.0	80-120			
Bromoform	41.4	5.0	0.50	ug/L	50.0	<5.0	82.8	80-123			
Chlorobenzene	44.0	1.0	0.15	ug/L	50.0	<1.0	88.1	80-120			
Chloroform	54.3	1.0	0.19	ug/L	50.0	<1.0	109	80-120			
Ethylbenzene	46.3	1.0	0.21	ug/L	50.0	<1.0	92.6	80-120			
n-Butylbenzene	54.4	2.5	0.32	ug/L	50.0	<2.5	109	74.2-125			
n-Propylbenzene	50.7	1.0	0.13	ug/L	50.0	<1.0	101	76.3-120			
Toluene	48.8	1.0	0.21	ug/L	50.0	<1.0	97.6	80-120			
Trichloroethene	47.1	1.0	0.20	ug/L	50.0	<1.0	94.1	80-120			
Vinyl chloride	62.8	1.0	0.087	ug/L	50.0	<1.0	126	70.3-126			
Surrogate: 4-Bromofluorobenzene	61.0			ug/L	55.0		111	76.4-125			
Surrogate: Dibromofluoromethane	57.0			ug/L	55.0		104	80-120			
Surrogate: Toluene-d8	55.6			ug/L	55.0		101	80-125			

Matrix Spike Dup (B9F1709-MSD1)

Source: 0902812-03

Prepared & Analyzed: 06/17/09

1,1,2,2-Tetrachloroethane	50.9	1.0	0.13	ug/L	50.0	<1.0	102	80-120	2.39	20	
1,1-Dichloroethane	56.9	1.0	0.11	ug/L	50.0	<1.0	114	78-120	1.84	20	
1,1-Dichloroethene	59.3	1.0	0.12	ug/L	50.0	<1.0	119	75-120	0.246	20	
1,3,5-Trimethylbenzene	48.8	1.0	0.18	ug/L	50.0	<1.0	97.7	75.8-120	3.02	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Neppi	Work Order #: 0902812 Date Reported: 07/02/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1709 - Volatiles											
Matrix Spike Dup (B9F1709-MSD1)		Source: 0902812-03				Prepared & Analyzed: 06/17/09					
1,4-Dichlorobenzene	46.8	1.0	0.17	ug/L	50.0	<1.0	93.5	75-125	0.790	20	
2-Chlorotoluene	48.8	1.0	0.17	ug/L	50.0	<1.0	97.7	79.1-120	1.75	20	
Benzene	49.2	1.0	0.093	ug/L	50.0	<1.0	98.3	80-120	0.701	20	
Bromoform	41.3	5.0	0.50	ug/L	50.0	<5.0	82.5	80-123	0.303	20	
Chlorobenzene	44.7	1.0	0.15	ug/L	50.0	<1.0	89.3	80-120	1.44	20	
Chloroform	53.6	1.0	0.19	ug/L	50.0	<1.0	107	80-120	1.34	20	
Ethylbenzene	45.0	1.0	0.21	ug/L	50.0	<1.0	90.1	80-120	2.77	20	
n-Butylbenzene	60.1	2.5	0.32	ug/L	50.0	<2.5	120	74.2-125	9.84	20	
n-Propylbenzene	50.0	1.0	0.13	ug/L	50.0	<1.0	100	76.3-120	1.26	20	
Toluene	50.5	1.0	0.21	ug/L	50.0	<1.0	101	80-120	3.46	20	
Trichloroethene	46.3	1.0	0.20	ug/L	50.0	<1.0	92.5	80-120	1.72	20	
Vinyl chloride	62.1	1.0	0.087	ug/L	50.0	<1.0	124	70.3-126	1.08	20	
Surrogate: 4-Bromofluorobenzene	60.3			ug/L	55.0		110	76.4-125			
Surrogate: Dibromofluoromethane	56.6			ug/L	55.0		103	80-120			
Surrogate: Toluene-d8	56.2			ug/L	55.0		102	80-125			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Nepl	Work Order #: 0902812 Date Reported: 07/02/09
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Analytical Results - Quality Control
Davy Laboratories, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch D906393 - No Prep											
BLK (0902812-BLK1)											
Nitrate/Nitrite as N	<0.06	0.06	--	mg/L							Prepared: Analyzed: 06/17/09
Batch D906501 - No Prep											
BLK (0902812-BLK1)											
Total Kjeldahl as N	<0.55	0.55	--	mg/L							Prepared: Analyzed: 06/23/09
Batch D906578 - No Prep											
BLK (0902812-BLK2)											
Nitrate/Nitrite as N	<0.06	0.06	--	mg/L							Prepared: Analyzed: 06/26/09

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SWOC300 Project Manager: Ms. Kelly Neppi	Work Order #: 0902812 Date Reported: 07/02/09
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Notes and Definitions

- S-02 Surrogate recovery outside of laboratory acceptance limits.
- QM-10 LCS/LCSD were analyzed in place of MS/MSD.
- Q9 Insufficient sample received to meet method QC requirements.
- M2 Matrix spike recovery was low, the associated blank spike recovery was acceptable.
- J Parameter was present between the MDL and RL and should be considered an estimated value
- H3b The trip-blank sample was received and analyzed past holding time.
- F-01 The sample was filtered in the laboratory prior to analysis.
- < Less than value listed
- dry Sample results reported on a dry weight basis
- NA Not applicable. The %RPD is not calculated from values less than the reporting limit.
- MDL Method Detection Limit
- RL Reporting Limit
- RPD Relative Percent Difference
- LCS Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
- MS Matrix Spike = Laboratory Fortified Matrix (LFM)

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Sample Identification	Collection		Matrix Type		Number of Containers/Preservative												COC of	
	Date	Time	Water	Soil	OC	Water						Soil						Project Manager:
1. MW-B1-001	6/11/09	1055	✓	✓	✓	1											JMIE	KSN
2. MW-E2-209		1310	✓	✓		1											KSJ	Legend
3. MW-E2-009		1435	✓	✓		3												
4. WSW-207605		1635	✓	✓		1												
5. SW-10			✓	✓														
6.																		
7.																		
8.																		
9.																		
10.																		
11.																		
12.																		

VOCs (2-oz tared MeOH) *1 GRO. BTEX (2-oz tared MeOH) *1 Metals (2-oz unpreserved) SVOCs (2 or 4-oz unpres.) *2 % Moisture (plastic vial, unpres.)	VOCs (2-oz tared MeOH) *1 GRO. BTEX (2-oz tared MeOH) *1 Metals (2-oz unpreserved) SVOCs (2 or 4-oz unpres.) *2 % Moisture (plastic vial, unpres.)	VOCs (2-oz tared MeOH) *1 GRO. BTEX (2-oz tared MeOH) *1 Metals (2-oz unpreserved) SVOCs (2 or 4-oz unpres.) *2 % Moisture (plastic vial, unpres.)	VOCs (2-oz tared MeOH) *1 GRO. BTEX (2-oz tared MeOH) *1 Metals (2-oz unpreserved) SVOCs (2 or 4-oz unpres.) *2 % Moisture (plastic vial, unpres.)
7	7	7	7
VOC's, SVOC's, OC, PEST,	Nitrogen, PPL Metals		arsenic

Volatile Organics (Pres.) *1 Semivolatile Organics *2 Dissolved Metals (HNO ₃) Total Metals (HNO ₃) General (Unpreserved) *3 Cyanide (NaOH) Nutrients (H ₂ SO ₄) *4 Oil and Grease (H ₂ SO ₄) Sulfide (Zn Acetate) Methane Bacteria (Na ₂ S ₂ O ₃) DRO (HCl)	On Ice? <input checked="" type="checkbox"/> N On Ice? <input type="checkbox"/> Y	Date: 6/11/09 Time: 13:30
Air Freight <input type="checkbox"/> Federal Express <input type="checkbox"/> Other <input type="checkbox"/>	Received by: <i>Brian JS</i>	Date: 6/12/09 Time: 13:30

0902812
Chain of Custody
 4700 West 77th Street
 Minneapolis, MN 55435-4803
 (952) 832-2600
 Project Number: 23/19-0805
 Project Name: NO 28313
 SWOC300
 per Kelly Wolf
 per 6/11/09

Common Parameter/Container - Preservation Key
 *1 - Volatile Organics = BTEX, GRO, TPH, Full List
 *2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List
 Herbicide/Pesticide/PCBs
 *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS,
 TDS, TS, Sulfate
 *4 - Nutrients = COD, TOC, Phenols, Ammonia
 Nitrogen, TKN

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator
 AR 5.42

LEGEND

Technical Services, Inc.

www.legend-group.com

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

0902812

Chain of Custody

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

BARR

Project Number: 23-19-0305
Project Name: SWOC 300

No. 28311

Sample Identification	Collection		Matrix	Type	Total No. Of Containers
	Date	Time			
1. FB-1	6/11/09	1525	Water	OC	7
2.			Soil	Comp.	
3.			Grab		
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					

- Common Parameter/Container - Preservation Key
- *1 - Volatile Organics = BTEX, GRQ, TPH, Full List
 - *2 - Semivolatile Organics = PAHs, PCP, Dioxans, Full List, Herbicide/Pesticide/PCBs
 - *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
 - *4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Requisitioned By: [Signature]
Requisitioned By: [Signature]
Samples Shipped via: Air Freight Federal Express Other

On ice? N Y
Date: 6/11/09
Time: 13:30

Received by: [Signature]
Date: 6/11/09
Time: 13:30

Air Bill Number: RR 5.42

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

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88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

August 12, 2009

REVISION

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0902817
RE: 23/19-0B05.07

This is a revised report. The details of the revision are listed in the case narrative on the following page.

Enclosed are the results of analyses for samples received by the laboratory on 06/12/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of the original report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
tolson@legend-group.com

Barb Rutten
Report Reviewer
brutten@legend-group.com

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GP-FB-1(water)	0902817-01	Water	06/10/09 12:00	06/12/09 13:30
GP-FB-2 (soil)	0902817-02	Water	06/10/09 13:00	06/12/09 13:30
Trip Blank	0902817-03	Water	05/29/09 00:00	06/12/09 13:30
SOC1-SS2B	0902817-04	Soil	06/11/09 10:00	06/12/09 13:30
SS-DUP-1	0902817-05	Soil	06/11/09 10:05	06/12/09 13:30
SOC1-SS2A	0902817-06	Soil	06/11/09 10:30	06/12/09 13:30
SOC1-SS2C	0902817-07	Soil	06/11/09 11:00	06/12/09 13:30
SOC1-SS3B	0902817-08	Soil	06/11/09 12:00	06/12/09 13:30
SOC1-SS3C	0902817-09	Soil	06/11/09 12:30	06/12/09 13:30
SOC1-SS3A	0902817-10	Soil	06/11/09 13:00	06/12/09 13:30
SOC1-SS1A	0902817-11	Soil	06/11/09 13:30	06/12/09 13:30
SOC1-SS1B	0902817-12	Soil	06/11/09 13:45	06/12/09 13:30
SOC1-SS1C	0902817-13	Soil	06/11/09 14:00	06/12/09 13:30
SS1	0902817-14	Soil	06/11/09 15:00	06/12/09 13:30
SS2	0902817-15	Soil	06/11/09 15:30	06/12/09 13:30
SS3	0902817-16	Soil	06/11/09 15:45	06/12/09 13:30
SS4	0902817-17	Soil	06/11/09 16:15	06/12/09 13:30
SS5	0902817-18	Soil	06/11/09 17:10	06/12/09 13:30

Shipping Container Information

Default Cooler Temperature (°C): 8.3

Received on ice: Yes Temperature blank was present Received on ice pack: No
 Received on melt water: No Ambient: No Acceptable (IH/ISO only): No
 Custody seals: No

Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Project: 23/19-0B05.07
Project Number: 23/19-0B05.07SOC350
Project Manager: Ms. Kelly Neppi

Work Order #: 0902817
Date Reported: 08/12/09

Case Narrative:

This report contains data that were produced by a subcontracted laboratory certified for the fields of testing performed. The total kjeldahl as N and nitrate/nitrite as N analyses for the Clean Water Program were performed by Davy Laboratories, LaCrosse, WI, #055-999-151.

An LCS/LCSD were prepared and analyzed for 8081A batch B9F1507 instead of the method specified LCS/MS/MSD. Insufficient sample was received to meet method QC requirements. Recovery for the 8081A surrogate decachlorobiphenyl was below laboratory limits in the sample GP-FB-1(water). All spike compounds and surrogate recoveries in the 8081A batch B9F1507 blank, LCS/LCSD, and MS were acceptable.

Methylene chloride was detected in the 8260 water batch B9F2213 method blank between the MDL and RL. Samples where the methylene chloride result was equal to or less than five times the blank concentration are flagged.

Recoveries for the 8270 SVOC compounds 4-chloro-3-methylphenol, 4-nitrophenol, and phenol in the water batch B9F1702 MS/MSD were below laboratory limits. Recoveries for the surrogates 2-fluorophenol, phenol-d6, and 2,4,6-tribromophenol were below laboratory limits in the MS/MSD. All spike compounds and surrogates were within limits in the batch method blank and LCS. The MS/MSD source sample was not associated with this work order.

Recoveries for most of the compounds in the 8270 SVOC soil batch B9F1801 MS were below laboratory limits. The %RPDs for most of the compounds were outside laboratory limits in the MS/MSD. Recoveries for the surrogates nitrobenzene-d5 in the sample SOC1-SS2B and 2-fluorobiphenyl in the sample SOC1-SS3A were below laboratory limits. Recoveries for the surrogates 2-fluorobiphenyl and 2-fluorophenol in the MS were below laboratory limits. All spike compounds and surrogates were within limits in the batch method blank and LCS/MSD. The MS/MSD source sample was SS5.

Recovery for the 8270 SVOC surrogate 2-fluorophenol in sample SS2 was below the laboratory limit.

Copper, lead and zinc recoveries in the MS/MSD samples and copper and zinc MS/MSD RPDs for 6010 batch B9F1805 were outside laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was not associated with this work order.

Beryllium recoveries in the MS/MSD samples for 6020 batch B9F2412 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was not associated with this work order.

Silver and zinc recoveries in the MS/MSD samples for 6010 batch B9F2413 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was not associated with this work order.

This report was revised on 7/27/09 to correct the ICP metals results for samples SOC1-SS2B, SS-DUP-1, SOC1-SS2A, SOC1-SS2C, SOC1-SS3B, SOC1-SS3C, SOC1-SS3A, SOC1-SS1A, SOC1-SS1B, SOC1-SS1C, SS1, SS2, SS3, SS4, and SS5.

At the client's request, this report was revised on 08/12/09 to include the following narrative. Per Legend's ICP SOP, "for elements of interest, the absolute value of the CCB result must be less than the reporting limit. If not, samples bracketed by an out-of-spec CCB must be re-analyzed." The zinc CCB associated with samples SOC1-SS2B, SS-DUP-1, SOC1-SS2A, SOC1-SS2C, SOC1-SS3B, SOC1-SS3C, SOC1-SS3A, SOC1-SS1A, SOC1-SS1B, SOC1-SS1C and SS1 was equal to the reporting limit at 0.020 mg/L. The samples were not reanalyzed.

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-FB-1(water) (0902817-01) Water Sampled: 06/10/09 12:00 Received: 06/12/09 13:30										
Antimony	2.3	0.50	0.046	ug/L	1	B9F3014	06/30/09	07/01/09	EPA 6020 (Dissolved)	
Arsenic	<0.010	0.010	0.0020	mg/L	1	B9F2506	06/25/09	06/25/09	EPA 6010B (Dissolved)	
Beryllium	0.96	0.50	0.027	ug/L	1	B9F3014	06/30/09	07/01/09	EPA 6020 (Dissolved)	
Cadmium	<0.0010	0.0010	0.000099	mg/L	1	B9F2506	06/25/09	06/25/09	EPA 6010B (Dissolved)	
Chromium	<0.010	0.010	0.00024	mg/L	1	"	"	"	"	
Copper	<0.020	0.020	0.0014	mg/L	1	"	"	"	"	
Lead	<0.0030	0.0030	0.00068	mg/L	1	"	"	"	"	
Mercury	<0.00020	0.00020	0.000031	mg/L	1	B9F2406	06/24/09	06/25/09	EPA 7470A (Dissolved)	
Nickel	<0.0050	0.0050	0.00028	mg/L	1	B9F2506	06/25/09	06/25/09	EPA 6010B (Dissolved)	
Selenium	<0.020	0.020	0.0022	mg/L	1	"	"	"	"	
Silver	<0.0050	0.0050	0.00018	mg/L	1	"	"	"	"	
Thallium	0.53	0.50	0.0081	ug/L	1	B9F3014	06/30/09	07/01/09	EPA 6020 (Dissolved)	
Zinc	<0.020	0.020	0.0044	mg/L	1	B9F2506	06/25/09	06/25/09	EPA 6010B (Dissolved)	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902817
 Date Reported: 08/12/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-FB-2 (soil) (0902817-02) Water Sampled: 06/10/09 13:00 Received: 06/12/09 13:30										
Antimony	<0.50	0.50	0.046	ug/L	1	B9F2412	06/24/09	06/25/09	EPA 6020	
Arsenic	<0.010	0.010	0.0020	mg/L	1	B9F2413	06/24/09	06/25/09	EPA 6010B	
Beryllium	<0.50	0.50	0.027	ug/L	1	B9F2412	06/24/09	06/25/09	EPA 6020	
Cadmium	<0.0010	0.0010	0.000099	mg/L	1	B9F2413	06/24/09	06/25/09	EPA 6010B	
Chromium	<0.010	0.010	0.00024	mg/L	1	"	"	"	"	
Copper	<0.020	0.020	0.0014	mg/L	1	"	"	"	"	
Lead	<0.0030	0.0030	0.00068	mg/L	1	"	"	"	"	
Mercury	<0.00020	0.00020	0.000031	mg/L	1	B9F2406	06/24/09	06/25/09	EPA 7470A	
Nickel	<0.0050	0.0050	0.00028	mg/L	1	B9F2413	06/24/09	06/25/09	EPA 6010B	
Selenium	<0.020	0.020	0.0022	mg/L	1	"	"	"	"	
Silver	<0.0050	0.0050	0.00018	mg/L	1	"	"	"	"	
Thallium	<0.50	0.50	0.0081	ug/L	1	B9F2412	06/24/09	06/25/09	EPA 6020	
Zinc	<0.020	0.020	0.0044	mg/L	1	B9F2413	06/24/09	06/25/09	EPA 6010B	
SOC1-SS2B (0902817-04) Soil Sampled: 06/11/09 10:00 Received: 06/12/09 13:30										
Arsenic	4.9	0.54	0.11	mg/kg dry	1	B9F1805	06/18/09	06/19/09	EPA 6010B	
SS-DUP-1 (0902817-05) Soil Sampled: 06/11/09 10:05 Received: 06/12/09 13:30										
Arsenic	2.7	0.54	0.11	mg/kg dry	1	B9F1805	06/18/09	06/19/09	EPA 6010B	
SOC1-SS2A (0902817-06) Soil Sampled: 06/11/09 10:30 Received: 06/12/09 13:30										
Arsenic	6.0	0.62	0.12	mg/kg dry	1	B9F1805	06/18/09	06/19/09	EPA 6010B	
SOC1-SS2C (0902817-07) Soil Sampled: 06/11/09 11:00 Received: 06/12/09 13:30										
Arsenic	6.6	0.61	0.12	mg/kg dry	1	B9F1805	06/18/09	06/19/09	EPA 6010B	
SOC1-SS3B (0902817-08) Soil Sampled: 06/11/09 12:00 Received: 06/12/09 13:30										
Arsenic	2.8	0.53	0.11	mg/kg dry	1	B9F1805	06/18/09	06/19/09	EPA 6010B	
SOC1-SS3C (0902817-09) Soil Sampled: 06/11/09 12:30 Received: 06/12/09 13:30										
Arsenic	3.5	0.57	0.11	mg/kg dry	1	B9F1805	06/18/09	06/19/09	EPA 6010B	
SOC1-SS3A (0902817-10) Soil Sampled: 06/11/09 13:00 Received: 06/12/09 13:30										
Arsenic	5.0	0.58	0.12	mg/kg dry	1	B9F1805	06/18/09	06/19/09	EPA 6010B	
SOC1-SS1A (0902817-11) Soil Sampled: 06/11/09 13:30 Received: 06/12/09 13:30										
Arsenic	7.4	0.62	0.12	mg/kg dry	1	B9F1805	06/18/09	06/19/09	EPA 6010B	
SOC1-SS1B (0902817-12) Soil Sampled: 06/11/09 13:45 Received: 06/12/09 13:30										
Arsenic	3.2	0.54	0.11	mg/kg dry	1	B9F1805	06/18/09	06/19/09	EPA 6010B	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC1-SS1C (0902817-13) Soil Sampled: 06/11/09 14:00 Received: 06/12/09 13:30

Arsenic	5.2	0.62	0.12	mg/kg dry	1	B9F1805	06/18/09	06/19/09	EPA 6010B	
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SS1 (0902817-14) Soil Sampled: 06/11/09 15:00 Received: 06/12/09 13:30

Antimony	<0.64	0.64	0.0071	mg/kg dry	1	B9F1805	06/18/09	06/19/09	EPA 6010B	
Arsenic	7.0	0.64	0.13	mg/kg dry	1	"	"	"	"	
Beryllium	0.53	0.32	0.014	mg/kg dry	1	"	"	"	"	
Cadmium	0.33	0.32	0.032	mg/kg dry	1	"	"	"	"	
Chromium	16	0.64	0.015	mg/kg dry	1	"	"	"	"	
Copper	11	1.3	0.090	mg/kg dry	1	"	"	"	"	
Lead	15	1.3	0.044	mg/kg dry	1	"	"	"	"	
Mercury	<0.13	0.13	0.0040	mg/kg dry	1	B9F2418	06/24/09	06/25/09	EPA 7471A	
Nickel	14	0.64	0.018	mg/kg dry	1	B9F1805	06/18/09	06/19/09	EPA 6010B	
Selenium	<1.3	1.3	0.14	mg/kg dry	1	"	"	"	"	
Silver	<0.32	0.32	0.012	mg/kg dry	1	"	"	"	"	
Thallium	<2.6	2.6	0.17	mg/kg dry	1	"	"	"	"	
Zinc	57	1.3	0.28	mg/kg dry	1	"	"	"	"	

SS2 (0902817-15) Soil Sampled: 06/11/09 15:30 Received: 06/12/09 13:30

Antimony	<0.66	0.66	0.0072	mg/kg dry	1	B9F1805	06/18/09	06/19/09	EPA 6010B	
Arsenic	6.9	0.66	0.13	mg/kg dry	1	"	"	"	"	
Beryllium	0.53	0.33	0.014	mg/kg dry	1	"	"	"	"	
Cadmium	0.38	0.33	0.033	mg/kg dry	1	"	"	"	"	
Chromium	16	0.66	0.016	mg/kg dry	1	"	"	"	"	
Copper	12	1.3	0.092	mg/kg dry	1	"	"	"	"	
Lead	15	1.3	0.045	mg/kg dry	1	"	"	"	"	
Mercury	<0.13	0.13	0.0041	mg/kg dry	1	B9F2418	06/24/09	06/25/09	EPA 7471A	
Nickel	15	0.66	0.018	mg/kg dry	1	B9F1805	06/18/09	06/19/09	EPA 6010B	
Selenium	<1.3	1.3	0.14	mg/kg dry	1	"	"	"	"	
Silver	<0.33	0.33	0.012	mg/kg dry	1	"	"	"	"	
Thallium	<2.6	2.6	0.17	mg/kg dry	1	"	"	"	"	
Zinc	67	1.3	0.29	mg/kg dry	1	"	"	"	"	

SS3 (0902817-16) Soil Sampled: 06/11/09 15:45 Received: 06/12/09 13:30

Antimony	<0.63	0.63	0.0070	mg/kg dry	1	B9F1805	06/18/09	06/19/09	EPA 6010B	
Arsenic	7.5	0.63	0.13	mg/kg dry	1	"	"	"	"	
Beryllium	0.54	0.32	0.014	mg/kg dry	1	"	"	"	"	
Cadmium	<0.32	0.32	0.032	mg/kg dry	1	"	"	"	"	
Chromium	17	0.63	0.015	mg/kg dry	1	"	"	"	"	
Copper	10	1.3	0.089	mg/kg dry	1	"	"	"	"	
Lead	14	1.3	0.043	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS3 (0902817-16) Soil Sampled: 06/11/09 15:45 Received: 06/12/09 13:30										
Mercury	<0.13	0.13	0.0039	mg/kg dry	1	B9F2418	06/24/09	06/25/09	EPA 7471A	
Nickel	14	0.63	0.018	mg/kg dry	1	B9F1805	06/18/09	06/19/09	EPA 6010B	
Selenium	<1.3	1.3	0.14	mg/kg dry	1	"	"	"	"	
Silver	<0.32	0.32	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.5	2.5	0.16	mg/kg dry	1	"	"	"	"	
Zinc	60	1.3	0.28	mg/kg dry	1	"	"	"	"	
SS4 (0902817-17) Soil Sampled: 06/11/09 16:15 Received: 06/12/09 13:30										
Antimony	<0.61	0.61	0.0067	mg/kg dry	1	B9F1805	06/18/09	06/19/09	EPA 6010B	
Arsenic	6.7	0.61	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	0.49	0.30	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.30	0.30	0.030	mg/kg dry	1	"	"	"	"	
Chromium	16	0.61	0.015	mg/kg dry	1	"	"	"	"	
Copper	9.8	1.2	0.085	mg/kg dry	1	"	"	"	"	
Lead	13	1.2	0.041	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0038	mg/kg dry	1	B9F2418	06/24/09	06/25/09	EPA 7471A	
Nickel	14	0.61	0.017	mg/kg dry	1	B9F1805	06/18/09	06/19/09	EPA 6010B	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Silver	<0.30	0.30	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.4	2.4	0.16	mg/kg dry	1	"	"	"	"	
Zinc	52	1.2	0.27	mg/kg dry	1	"	"	"	"	
SS5 (0902817-18) Soil Sampled: 06/11/09 17:10 Received: 06/12/09 13:30										
Antimony	<0.63	0.63	0.0070	mg/kg dry	1	B9F1805	06/18/09	06/19/09	EPA 6010B	
Arsenic	8.4	0.63	0.13	mg/kg dry	1	"	"	"	"	
Beryllium	0.61	0.32	0.014	mg/kg dry	1	"	"	"	"	
Cadmium	0.35	0.32	0.032	mg/kg dry	1	"	"	"	"	
Chromium	18	0.63	0.015	mg/kg dry	1	"	"	"	"	
Copper	12	1.3	0.089	mg/kg dry	1	"	"	"	"	
Lead	16	1.3	0.043	mg/kg dry	1	"	"	"	"	
Mercury	<0.13	0.13	0.0039	mg/kg dry	1	B9F2418	06/24/09	06/25/09	EPA 7471A	
Nickel	17	0.63	0.018	mg/kg dry	1	B9F1805	06/18/09	06/19/09	EPA 6010B	
Selenium	<1.3	1.3	0.14	mg/kg dry	1	"	"	"	"	
Silver	<0.32	0.32	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.5	2.5	0.16	mg/kg dry	1	"	"	"	"	
Zinc	70	1.3	0.28	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-SS2B (0902817-04) Soil Sampled: 06/11/09 10:00 Received: 06/12/09 13:30										
% Solids	92			%	1	B9F1803	06/18/09	06/18/09	% calculation	
SS-DUP-1 (0902817-05) Soil Sampled: 06/11/09 10:05 Received: 06/12/09 13:30										
% Solids	92			%	1	B9F1803	06/18/09	06/18/09	% calculation	
SOC1-SS2A (0902817-06) Soil Sampled: 06/11/09 10:30 Received: 06/12/09 13:30										
% Solids	80			%	1	B9F1803	06/18/09	06/18/09	% calculation	
SOC1-SS2C (0902817-07) Soil Sampled: 06/11/09 11:00 Received: 06/12/09 13:30										
% Solids	82			%	1	B9F1803	06/18/09	06/18/09	% calculation	
SOC1-SS3B (0902817-08) Soil Sampled: 06/11/09 12:00 Received: 06/12/09 13:30										
% Solids	94			%	1	B9F1803	06/18/09	06/18/09	% calculation	
SOC1-SS3C (0902817-09) Soil Sampled: 06/11/09 12:30 Received: 06/12/09 13:30										
% Solids	88			%	1	B9F1803	06/18/09	06/18/09	% calculation	
SOC1-SS3A (0902817-10) Soil Sampled: 06/11/09 13:00 Received: 06/12/09 13:30										
% Solids	86			%	1	B9F1803	06/18/09	06/18/09	% calculation	
SOC1-SS1A (0902817-11) Soil Sampled: 06/11/09 13:30 Received: 06/12/09 13:30										
% Solids	81			%	1	B9F1803	06/18/09	06/18/09	% calculation	
SOC1-SS1B (0902817-12) Soil Sampled: 06/11/09 13:45 Received: 06/12/09 13:30										
% Solids	92			%	1	B9F1803	06/18/09	06/18/09	% calculation	
SOC1-SS1C (0902817-13) Soil Sampled: 06/11/09 14:00 Received: 06/12/09 13:30										
% Solids	81			%	1	B9F1803	06/18/09	06/18/09	% calculation	
SS1 (0902817-14) Soil Sampled: 06/11/09 15:00 Received: 06/12/09 13:30										
% Solids	78			%	1	B9F1803	06/18/09	06/18/09	% calculation	
SS2 (0902817-15) Soil Sampled: 06/11/09 15:30 Received: 06/12/09 13:30										
% Solids	76			%	1	B9F1803	06/18/09	06/18/09	% calculation	
SS3 (0902817-16) Soil Sampled: 06/11/09 15:45 Received: 06/12/09 13:30										
% Solids	79			%	1	B9F1803	06/18/09	06/18/09	% calculation	
SS4 (0902817-17) Soil Sampled: 06/11/09 16:15 Received: 06/12/09 13:30										
% Solids	82			%	1	B9F1803	06/18/09	06/18/09	% calculation	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS5 (0902817-18) Soil Sampled: 06/11/09 17:10 Received: 06/12/09 13:30										
% Solids	79			%	1	B9F1803	06/18/09	06/18/09	% calculation	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-FB-1(water) (0902817-01) Water Sampled: 06/10/09 12:00 Received: 06/12/09 13:30										
4,4'-DDD	<0.037	0.40	0.037	ug/L	1	B9F1507	06/15/09	06/17/09	EPA 8081A	
4,4'-DDE	<0.037	0.40	0.037	ug/L	1	"	"	"	"	
4,4'-DDT	<0.042	0.40	0.042	ug/L	1	"	"	"	"	
a-Chlordane	<0.038	0.40	0.038	ug/L	1	"	"	"	"	
Aldrin	<0.039	0.40	0.039	ug/L	1	"	"	"	"	
alpha-BHC	<0.045	0.40	0.045	ug/L	1	"	"	"	"	
beta-BHC	<0.053	0.40	0.053	ug/L	1	"	"	"	"	
delta-BHC	<0.046	0.40	0.046	ug/L	1	"	"	"	"	
Dieldrin	<0.037	0.40	0.037	ug/L	1	"	"	"	"	
Endosulfan I	<0.040	0.40	0.040	ug/L	1	"	"	"	"	
Endosulfan II	<0.041	0.40	0.041	ug/L	1	"	"	"	"	
Endosulfan sulfate	<0.045	0.40	0.045	ug/L	1	"	"	"	"	
Endrin	<0.042	0.40	0.042	ug/L	1	"	"	"	"	
Endrin aldehyde	<0.051	0.40	0.051	ug/L	1	"	"	"	"	
Endrin ketone	<0.042	0.40	0.042	ug/L	1	"	"	"	"	
gamma-BHC (Lindane)	<0.047	0.40	0.047	ug/L	1	"	"	"	"	
gamma-Chlordane	<0.037	0.40	0.037	ug/L	1	"	"	"	"	
Heptachlor	<0.039	0.40	0.039	ug/L	1	"	"	"	"	
Heptachlor epoxide	<0.041	0.40	0.041	ug/L	1	"	"	"	"	
Methoxychlor	<0.045	0.40	0.045	ug/L	1	"	"	"	"	
Toxaphene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	80.0			80.6-122 %		"	"	06/17/09	"	S-GC
Surrogate: Tetrachloro-meta-xylene	79.5			71.7-111 %		"	"	"	"	

SS1 (0902817-14) Soil Sampled: 06/11/09 15:00 Received: 06/12/09 13:30										
4,4'-DDD	<0.051	0.051	0.0015	mg/kg dry	1	B9F1515	06/15/09	06/25/09	EPA 8081A	
4,4'-DDE	<0.051	0.051	0.0017	mg/kg dry	1	"	"	"	"	
4,4'-DDT	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
a-Chlordane	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	
Aldrin	<0.051	0.051	0.0015	mg/kg dry	1	"	"	"	"	
alpha-BHC	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.051	0.051	0.0021	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.051	0.051	0.0022	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	
Endosulfan I	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Endrin	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	

Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Project: 23/19-0B05.07
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Project Manager: Ms. Kelly Nepl

Work Order #: 0902817
Date Reported: 08/12/09

PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SS1 (0902817-14) Soil Sampled: 06/11/09 15:00 Received: 06/12/09 13:30

Endrin ketone	<0.051	0.051	0.0018	mg/kg dry	1	B9F1515	06/15/09	06/25/09	EPA 8081A	
gamma-BHC (Lindane)	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Heptachlor epoxide	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Methoxychlor	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.10	0.10	0.0078	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	100			83.7-130 %		"	"	06/25/09	"	
Surrogate: Tetrachloro-meta-xylene	100			65.2-135 %		"	"	"	"	

SS2 (0902817-15) Soil Sampled: 06/11/09 15:30 Received: 06/12/09 13:30

4,4'-DDD	<0.053	0.053	0.0016	mg/kg dry	1	B9F1515	06/15/09	06/25/09	EPA 8081A	
4,4'-DDE	<0.053	0.053	0.0017	mg/kg dry	1	"	"	"	"	
4,4'-DDT	<0.053	0.053	0.0020	mg/kg dry	1	"	"	"	"	
a-Chlordane	<0.053	0.053	0.0018	mg/kg dry	1	"	"	"	"	
Aldrin	<0.053	0.053	0.0016	mg/kg dry	1	"	"	"	"	
alpha-BHC	<0.053	0.053	0.0020	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.053	0.053	0.0021	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.053	0.053	0.0022	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.053	0.053	0.0018	mg/kg dry	1	"	"	"	"	
Endosulfan I	<0.053	0.053	0.0020	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.053	0.053	0.0020	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.053	0.053	0.0020	mg/kg dry	1	"	"	"	"	
Endrin	<0.053	0.053	0.0018	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.053	0.053	0.0020	mg/kg dry	1	"	"	"	"	
Endrin ketone	<0.053	0.053	0.0018	mg/kg dry	1	"	"	"	"	
gamma-BHC (Lindane)	<0.053	0.053	0.0018	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.053	0.053	0.0018	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.053	0.053	0.0020	mg/kg dry	1	"	"	"	"	
Heptachlor epoxide	<0.053	0.053	0.0020	mg/kg dry	1	"	"	"	"	
Methoxychlor	<0.053	0.053	0.0020	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.11	0.11	0.0080	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	96.5			83.7-130 %		"	"	06/25/09	"	
Surrogate: Tetrachloro-meta-xylene	96.0			65.2-135 %		"	"	"	"	

SS3 (0902817-16) Soil Sampled: 06/11/09 15:45 Received: 06/12/09 13:30

4,4'-DDD	<0.051	0.051	0.0015	mg/kg dry	1	B9F1515	06/15/09	06/25/09	EPA 8081A	
4,4'-DDE	<0.051	0.051	0.0016	mg/kg dry	1	"	"	"	"	
4,4'-DDT	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
a-Chlordane	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS3 (0902817-16) Soil Sampled: 06/11/09 15:45 Received: 06/12/09 13:30										
Aldrin	<0.051	0.051	0.0015	mg/kg dry	1	B9F1515	06/15/09	06/25/09	EPA 8081A	
alpha-BHC	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.051	0.051	0.0020	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.051	0.051	0.0022	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	
Endosulfan I	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Endrin	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Endrin ketone	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	
gamma-BHC (Lindane)	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Heptachlor epoxide	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Methoxychlor	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.10	0.10	0.0077	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	98.0			83.7-130 %		"	"	06/25/09	"	
Surrogate: Tetrachloro-meta-xylene	102			65.2-135 %		"	"	"	"	

SS4 (0902817-17) Soil Sampled: 06/11/09 16:15 Received: 06/12/09 13:30										
4,4'-DDD	<0.049	0.049	0.0015	mg/kg dry	1	B9F1515	06/15/09	06/25/09	EPA 8081A	
4,4'-DDE	<0.049	0.049	0.0016	mg/kg dry	1	"	"	"	"	
4,4'-DDT	<0.049	0.049	0.0018	mg/kg dry	1	"	"	"	"	
a-Chlordane	<0.049	0.049	0.0017	mg/kg dry	1	"	"	"	"	
Aldrin	<0.049	0.049	0.0015	mg/kg dry	1	"	"	"	"	
alpha-BHC	<0.049	0.049	0.0018	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.049	0.049	0.0020	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.049	0.049	0.0021	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.049	0.049	0.0017	mg/kg dry	1	"	"	"	"	
Endosulfan I	<0.049	0.049	0.0018	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.049	0.049	0.0018	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.049	0.049	0.0018	mg/kg dry	1	"	"	"	"	
Endrin	<0.049	0.049	0.0017	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.049	0.049	0.0018	mg/kg dry	1	"	"	"	"	
Endrin ketone	<0.049	0.049	0.0017	mg/kg dry	1	"	"	"	"	
gamma-BHC (Lindane)	<0.049	0.049	0.0017	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.049	0.049	0.0017	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.049	0.049	0.0018	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS4 (0902817-17) Soil Sampled: 06/11/09 16:15 Received: 06/12/09 13:30										
Heptachlor epoxide	<0.049	0.049	0.0018	mg/kg dry	1	B9F1515	06/15/09	06/25/09	EPA 8081A	
Methoxychlor	<0.049	0.049	0.0018	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.098	0.098	0.0074	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	94.5			83.7-130 %		"	"	06/25/09	"	
Surrogate: Tetrachloro-meta-xylene	97.0			65.2-135 %		"	"	"	"	
SS5 (0902817-18) Soil Sampled: 06/11/09 17:10 Received: 06/12/09 13:30										
4,4'-DDD	<0.051	0.051	0.0015	mg/kg dry	1	B9F1515	06/15/09	06/25/09	EPA 8081A	
4,4'-DDE	<0.051	0.051	0.0016	mg/kg dry	1	"	"	"	"	
4,4'-DDT	<0.051	0.051	0.0019	mg/kg dry	1	"	"	06/25/09	"	
a-Chlordane	<0.051	0.051	0.0018	mg/kg dry	1	"	"	06/25/09	"	
Aldrin	<0.051	0.051	0.0015	mg/kg dry	1	"	"	"	"	
alpha-BHC	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.051	0.051	0.0020	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.051	0.051	0.0022	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.051	0.051	0.0018	mg/kg dry	1	"	"	06/25/09	"	
Endosulfan I	<0.051	0.051	0.0019	mg/kg dry	1	"	"	06/25/09	"	
Endosulfan II	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Endrin	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Endrin ketone	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	
gamma-BHC (Lindane)	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.051	0.051	0.0018	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Heptachlor epoxide	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Methoxychlor	<0.051	0.051	0.0019	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.10	0.10	0.0077	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	101			83.7-130 %		"	"	06/25/09	"	
Surrogate: Tetrachloro-meta-xylene	100			65.2-135 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-FB-1(water) (0902817-01) Water Sampled: 06/10/09 12:00 Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9F1702	06/17/09	06/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3'-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-FB-1(water) (0902817-01) Water Sampled: 06/10/09 12:00 Received: 06/12/09 13:30										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9F1702	06/17/09	06/18/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	76.1			48.5-114 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	80.3			41.7-98.4 %		"	"	"	"	
Surrogate: 2-Fluorophenol	56.3			30-93.5 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	78.7			47.4-97.8 %		"	"	"	"	
Surrogate: Phenol-d6	48.0			30-91.5 %		"	"	"	"	
Surrogate: Terphenyl-d14	87.1			30-108 %		"	"	"	"	

Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Project: 23/19-0B05.07
Project Number: 23/19-0B05.07SOC350
Project Manager: Ms. Kelly Neppi

Work Order #: 0902817
Date Reported: 08/12/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-FB-2 (soil) (0902817-02) Water Sampled: 06/10/09 13:00 Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9F1702	06/17/09	06/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3'-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-FB-2 (soil) (0902817-02) Water Sampled: 06/10/09 13:00 Received: 06/12/09 13:30										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9F1702	06/17/09	06/18/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	71.7			48.5-114 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	72.1			41.7-98.4 %		"	"	"	"	
Surrogate: 2-Fluorophenol	54.8			30-93.5 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	71.3			47.4-97.8 %		"	"	"	"	
Surrogate: Phenol-d6	47.9			30-91.5 %		"	"	"	"	
Surrogate: Terphenyl-d14	84.7			30-108 %		"	"	"	"	

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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-SS2B (0902817-04) Soil Sampled: 06/11/09 10:00 Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.029	0.36	0.029	mg/kg dry	1	B9F1801	06/18/09	06/19/09	EPA 8270C	
1,2-Dichlorobenzene	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.026	0.36	0.026	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.041	0.73	0.041	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.026	0.73	0.026	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.038	0.73	0.038	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.038	0.73	0.038	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.098	0.73	0.098	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.063	0.73	0.063	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.047	0.73	0.047	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.041	0.73	0.041	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.030	0.36	0.030	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.038	0.73	0.038	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.039	0.73	0.039	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.42	1.7	0.42	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.036	0.36	0.036	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.080	0.73	0.080	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.36	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.043	0.73	0.043	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.73	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.029	0.73	0.029	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.73	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.030	0.36	0.030	mg/kg dry	1	"	"	"	"	
Acenaphthylene	0.33	0.36	0.025	mg/kg dry	1	"	"	"	"	J
Aniline	<0.098	0.73	0.098	mg/kg dry	1	"	"	"	"	
Anthracene	0.29	0.36	0.027	mg/kg dry	1	"	"	"	"	J
Benzidine	<0.78	2.7	0.78	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	0.80	0.36	0.029	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	2.0	0.36	0.029	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	2.7	0.36	0.037	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	1.2	0.36	0.033	mg/kg dry	1	"	"	"	"	

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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-SS2B (0902817-04) Soil Sampled: 06/11/09 10:00 Received: 06/12/09 13:30										
Benzo (k) fluoranthene	0.84	0.36	0.034	mg/kg dry	1	B9F1801	06/18/09	06/19/09	EPA 8270C	
Benzoic acid	0.52	0.36	0.063	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.73	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.026	0.36	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.024	0.36	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	
Carbazole	0.061	0.36	0.024	mg/kg dry	1	"	"	"	"	J
Chrysene	1.3	0.36	0.036	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	0.38	0.36	0.037	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.016	0.36	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.36	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.040	0.36	0.040	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
Fluoranthene	0.40	0.36	0.026	mg/kg dry	1	"	"	"	"	
Fluorene	<0.020	0.36	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.017	0.36	0.017	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.036	0.36	0.036	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.045	0.36	0.045	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.030	0.36	0.030	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	1.6	0.36	0.035	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.36	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.032	0.36	0.032	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.033	0.36	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.035	0.36	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.36	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.10	0.73	0.10	mg/kg dry	1	"	"	"	"	
Phenanthrene	0.057	0.36	0.021	mg/kg dry	1	"	"	"	"	J
Phenol	<0.062	0.73	0.062	mg/kg dry	1	"	"	"	"	
Pyrene	0.93	0.36	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	57.6			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	53.7			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	50.2			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	48.5			49.1-86.9 %		"	"	"	"	S-02
Surrogate: Phenol-d6	54.1			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	58.5			43.6-112 %		"	"	"	"	

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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-SS2A (0902817-06) Soil Sampled: 06/11/09 10:30 Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.034	0.41	0.034	mg/kg dry	1	B9F1801	06/18/09	06/19/09	EPA 8270C	
1,2-Dichlorobenzene	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.029	0.41	0.029	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.048	0.84	0.048	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.030	0.84	0.030	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.044	0.84	0.044	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.044	0.84	0.044	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.84	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.072	0.84	0.072	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.054	0.84	0.054	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.024	0.41	0.024	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.024	0.41	0.024	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.048	0.84	0.048	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.044	0.84	0.044	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.045	0.84	0.045	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.49	2.0	0.49	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.092	0.84	0.092	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.021	0.41	0.021	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.050	0.84	0.050	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.14	0.84	0.14	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.029	0.41	0.029	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.034	0.84	0.034	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.029	0.41	0.029	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.84	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.029	0.41	0.029	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.84	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
Benzidine	<0.90	3.1	0.90	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.034	0.41	0.034	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.034	0.41	0.034	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.042	0.41	0.042	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.038	0.41	0.038	mg/kg dry	1	"	"	"	"	

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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-SS2A (0902817-06) Soil Sampled: 06/11/09 10:30 Received: 06/12/09 13:30										
Benzo (k) fluoranthene	<0.039	0.41	0.039	mg/kg dry	1	B9F1801	06/18/09	06/19/09	EPA 8270C	
Benzoic acid	0.61	0.41	0.072	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.84	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
Carbazole	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
Chrysene	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.042	0.41	0.042	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.024	0.41	0.024	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.019	0.41	0.019	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.046	0.41	0.046	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
Fluorene	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.020	0.41	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.051	0.41	0.051	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.040	0.41	0.040	mg/kg dry	1	"	"	"	"	
Isophorone	<0.021	0.41	0.021	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.036	0.41	0.036	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.038	0.41	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.040	0.41	0.040	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.84	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.024	0.41	0.024	mg/kg dry	1	"	"	"	"	
Phenol	<0.071	0.84	0.071	mg/kg dry	1	"	"	"	"	
Pyrene	<0.029	0.41	0.029	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	67.7			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	70.9			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	66.9			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	69.2			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	71.8			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	81.4			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-SS2C (0902817-07RE1) Soil Sampled: 06/11/09 11:00 Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.033	0.40	0.033	mg/kg dry	1	B9F2308	06/18/09	06/24/09	EPA 8270C	
1,2-Dichlorobenzene	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.046	0.82	0.046	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.029	0.82	0.029	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.043	0.82	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.043	0.82	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.82	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.071	0.82	0.071	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.026	0.40	0.026	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.052	0.82	0.052	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.046	0.82	0.046	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.043	0.82	0.043	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.044	0.82	0.044	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.48	2.0	0.48	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.090	0.82	0.090	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.021	0.40	0.021	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.049	0.82	0.049	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.82	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.033	0.82	0.033	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.82	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.82	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
Benzidine	<0.88	3.0	0.88	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.033	0.40	0.033	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.033	0.40	0.033	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.041	0.40	0.041	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.037	0.40	0.037	mg/kg dry	1	"	"	"	"	

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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-SS2C (0902817-07RE1) Soil Sampled: 06/11/09 11:00 Received: 06/12/09 13:30										
Benzo (k) fluoranthene	<0.038	0.40	0.038	mg/kg dry	1	B9F2308	06/18/09	06/24/09	EPA 8270C	
Benzoic acid	0.44	0.40	0.071	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.82	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.026	0.40	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.027	0.40	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.026	0.40	0.026	mg/kg dry	1	"	"	"	"	
Carbazole	<0.027	0.40	0.027	mg/kg dry	1	"	"	"	"	
Chrysene	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.041	0.40	0.041	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.018	0.40	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.045	0.40	0.045	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
Fluorene	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.020	0.40	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.050	0.40	0.050	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.039	0.40	0.039	mg/kg dry	1	"	"	"	"	
Isophorone	<0.021	0.40	0.021	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.035	0.40	0.035	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.037	0.40	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.039	0.40	0.039	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.82	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
Phenol	<0.070	0.82	0.070	mg/kg dry	1	"	"	"	"	
Pyrene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	79.3			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	69.7			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	65.0			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	68.7			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	71.9			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	71.6			43.6-112 %		"	"	"	"	

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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-SS3B (0902817-08) Soil Sampled: 06/11/09 12:00 Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.029	0.35	0.029	mg/kg dry	1	B9F1801	06/18/09	06/19/09	EPA 8270C	
1,2-Dichlorobenzene	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.040	0.71	0.040	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.026	0.71	0.026	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.096	0.71	0.096	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.062	0.71	0.062	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.046	0.71	0.046	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.040	0.71	0.040	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.037	0.71	0.037	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.038	0.71	0.038	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.41	1.7	0.41	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.079	0.71	0.079	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.043	0.71	0.043	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.71	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.029	0.71	0.029	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.71	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.096	0.71	0.096	mg/kg dry	1	"	"	"	"	
Anthracene	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
Benzidine	<0.77	2.7	0.77	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.029	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.029	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.036	0.35	0.036	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.032	0.35	0.032	mg/kg dry	1	"	"	"	"	

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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-SS3B (0902817-08) Soil Sampled: 06/11/09 12:00 Received: 06/12/09 13:30										
Benzo (k) fluoranthene	<0.033	0.35	0.033	mg/kg dry	1	B9F1801	06/18/09	06/19/09	EPA 8270C	
Benzoic acid	<0.062	0.35	0.062	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.71	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.35	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Chrysene	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.036	0.35	0.036	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.016	0.35	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.039	0.35	0.039	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.017	0.35	0.017	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.044	0.35	0.044	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.034	0.35	0.034	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.031	0.35	0.031	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.032	0.35	0.032	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.034	0.35	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.10	0.71	0.10	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.061	0.71	0.061	mg/kg dry	1	"	"	"	"	
Pyrene	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	78.7			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	76.3			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	78.3			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	71.4			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	79.3			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	90.5			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-SS3C (0902817-09) Soil Sampled: 06/11/09 12:30 Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9F1801	06/18/09	06/19/09	EPA 8270C	
1,2-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.043	0.76	0.043	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.027	0.76	0.027	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.040	0.76	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.040	0.76	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.76	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.066	0.76	0.066	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.049	0.76	0.049	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.043	0.76	0.043	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.040	0.76	0.040	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.041	0.76	0.041	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.44	1.8	0.44	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.084	0.76	0.084	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.019	0.38	0.019	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.045	0.76	0.045	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.76	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.76	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.76	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.76	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Benzidine	<0.82	2.8	0.82	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-SS3C (0902817-09) Soil Sampled: 06/11/09 12:30 Received: 06/12/09 13:30										
Benzo (k) fluoranthene	<0.035	0.38	0.035	mg/kg dry	1	B9F1801	06/18/09	06/19/09	EPA 8270C	
Benzoic acid	<0.066	0.38	0.066	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.76	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.042	0.38	0.042	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Fluorene	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.38	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.047	0.38	0.047	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.036	0.38	0.036	mg/kg dry	1	"	"	"	"	
Isophorone	<0.019	0.38	0.019	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.036	0.38	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.76	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.065	0.76	0.065	mg/kg dry	1	"	"	"	"	
Pyrene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	57.8			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	56.9			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	57.2			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	53.9			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	58.6			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	62.9			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-SS3A (0902817-10) Soil Sampled: 06/11/09 13:00 Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B9F1801	06/18/09	06/19/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.78	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.78	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.78	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.78	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.050	0.78	0.050	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.78	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.042	0.78	0.042	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.45	1.9	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.086	0.78	0.086	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.047	0.78	0.047	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.78	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.78	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.78	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.78	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.84	2.9	0.84	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.040	0.38	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.035	0.38	0.035	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-SS3A (0902817-10) Soil Sampled: 06/11/09 13:00 Received: 06/12/09 13:30										
Benzo (k) fluoranthene	<0.036	0.38	0.036	mg/kg dry	1	B9F1801	06/18/09	06/19/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.78	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.040	0.38	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.38	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.048	0.38	0.048	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.035	0.38	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.78	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.78	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	54.6			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	53.1			53.2-85.1 %		"	"	"	"	S-02
Surrogate: 2-Fluorophenol	50.0			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	54.2			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	53.9			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	48.9			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-SS1A (0902817-11) Soil Sampled: 06/11/09 13:30 Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.033	0.41	0.033	mg/kg dry	1	B9F1801	06/18/09	06/19/09	EPA 8270C	
1,2-Dichlorobenzene	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.047	0.83	0.047	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.030	0.83	0.030	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.83	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.072	0.83	0.072	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.053	0.83	0.053	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.047	0.83	0.047	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.044	0.83	0.044	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.48	2.0	0.48	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.091	0.83	0.091	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.021	0.41	0.021	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.049	0.83	0.049	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.14	0.83	0.14	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.033	0.83	0.033	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.83	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.83	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
Benzidine	<0.89	3.1	0.89	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.033	0.41	0.033	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.033	0.41	0.033	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.042	0.41	0.042	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.037	0.41	0.037	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-SS1A (0902817-11) Soil Sampled: 06/11/09 13:30 Received: 06/12/09 13:30										
Benzo (k) fluoranthene	<0.038	0.41	0.038	mg/kg dry	1	B9F1801	06/18/09	06/19/09	EPA 8270C	
Benzoic acid	<0.072	0.41	0.072	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.83	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.027	0.41	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
Carbazole	<0.027	0.41	0.027	mg/kg dry	1	"	"	"	"	
Chrysene	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.042	0.41	0.042	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.019	0.41	0.019	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.046	0.41	0.046	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
Fluorene	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.020	0.41	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.051	0.41	0.051	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.040	0.41	0.040	mg/kg dry	1	"	"	"	"	
Isophorone	<0.021	0.41	0.021	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.036	0.41	0.036	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.037	0.41	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.040	0.41	0.040	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.83	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
Phenol	<0.070	0.83	0.070	mg/kg dry	1	"	"	"	"	
Pyrene	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	56.1			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	55.4			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	55.1			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	60.2			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	58.4			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	52.2			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-SS1B (0902817-12) Soil Sampled: 06/11/09 13:45 Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.029	0.36	0.029	mg/kg dry	1	B9F1801	06/18/09	06/19/09	EPA 8270C	
1,2-Dichlorobenzene	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.026	0.36	0.026	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.041	0.73	0.041	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.026	0.73	0.026	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.038	0.73	0.038	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.038	0.73	0.038	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.098	0.73	0.098	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.063	0.73	0.063	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.047	0.73	0.047	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.041	0.73	0.041	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.030	0.36	0.030	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.038	0.73	0.038	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.039	0.73	0.039	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.42	1.7	0.42	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.036	0.36	0.036	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.080	0.73	0.080	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.36	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.043	0.73	0.043	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.73	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.029	0.73	0.029	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.73	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.030	0.36	0.030	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	
Aniline	<0.098	0.73	0.098	mg/kg dry	1	"	"	"	"	
Anthracene	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	
Benzidine	<0.78	2.7	0.78	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.029	0.36	0.029	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	0.068	0.36	0.029	mg/kg dry	1	"	"	"	"	J
Benzo (b) fluoranthene	0.14	0.36	0.037	mg/kg dry	1	"	"	"	"	J
Benzo (g,h,i) perylene	<0.033	0.36	0.033	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-SS1B (0902817-12) Soil Sampled: 06/11/09 13:45 Received: 06/12/09 13:30										
Benzo (k) fluoranthene	0.049	0.36	0.034	mg/kg dry	1	B9F1801	06/18/09	06/19/09	EPA 8270C	J
Benzoic acid	<0.063	0.36	0.063	mg/kg dry	1	"	"	"	"	"
Benzyl alcohol	<0.13	0.73	0.13	mg/kg dry	1	"	"	"	"	"
Bis(2-chloroethoxy)methane	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	"
Bis(2-chloroethyl)ether	<0.026	0.36	0.026	mg/kg dry	1	"	"	"	"	"
Bis(2-chloroisopropyl)ether	<0.024	0.36	0.024	mg/kg dry	1	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	<0.022	0.36	0.022	mg/kg dry	1	"	"	"	"	"
Butyl benzyl phthalate	<0.023	0.36	0.023	mg/kg dry	1	"	"	"	"	"
Carbazole	<0.024	0.36	0.024	mg/kg dry	1	"	"	"	"	"
Chrysene	<0.036	0.36	0.036	mg/kg dry	1	"	"	"	"	"
Dibenz (a,h) anthracene	<0.037	0.36	0.037	mg/kg dry	1	"	"	"	"	"
Dibenzofuran	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	"
Diethyl phthalate	<0.016	0.36	0.016	mg/kg dry	1	"	"	"	"	"
Dimethyl phthalate	<0.020	0.36	0.020	mg/kg dry	1	"	"	"	"	"
Di-n-butyl phthalate	<0.040	0.36	0.040	mg/kg dry	1	"	"	"	"	"
Di-n-octyl phthalate	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	"
Fluoranthene	<0.026	0.36	0.026	mg/kg dry	1	"	"	"	"	"
Fluorene	<0.020	0.36	0.020	mg/kg dry	1	"	"	"	"	"
Hexachlorobenzene	<0.017	0.36	0.017	mg/kg dry	1	"	"	"	"	"
Hexachlorobutadiene	<0.036	0.36	0.036	mg/kg dry	1	"	"	"	"	"
Hexachlorocyclopentadiene	<0.045	0.36	0.045	mg/kg dry	1	"	"	"	"	"
Hexachloroethane	<0.030	0.36	0.030	mg/kg dry	1	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	<0.035	0.36	0.035	mg/kg dry	1	"	"	"	"	"
Isophorone	<0.018	0.36	0.018	mg/kg dry	1	"	"	"	"	"
Naphthalene	<0.032	0.36	0.032	mg/kg dry	1	"	"	"	"	"
Nitrobenzene	<0.033	0.36	0.033	mg/kg dry	1	"	"	"	"	"
N-Nitrosodimethylamine	<0.035	0.36	0.035	mg/kg dry	1	"	"	"	"	"
N-Nitrosodi-n-propylamine	<0.027	0.36	0.027	mg/kg dry	1	"	"	"	"	"
N-Nitrosodiphenylamine	<0.020	0.36	0.020	mg/kg dry	1	"	"	"	"	"
Pentachlorophenol	<0.10	0.73	0.10	mg/kg dry	1	"	"	"	"	"
Phenanthrene	<0.021	0.36	0.021	mg/kg dry	1	"	"	"	"	"
Phenol	<0.062	0.73	0.062	mg/kg dry	1	"	"	"	"	"
Pyrene	<0.025	0.36	0.025	mg/kg dry	1	"	"	"	"	"
Surrogate: 2,4,6-Tribromophenol	71.8			47.2-108 %		"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	63.3			53.2-85.1 %		"	"	"	"	"
Surrogate: 2-Fluorophenol	63.7			48.5-90.1 %		"	"	"	"	"
Surrogate: Nitrobenzene-d5	66.7			49.1-86.9 %		"	"	"	"	"
Surrogate: Phenol-d6	67.0			47.6-99.6 %		"	"	"	"	"
Surrogate: Terphenyl-d14	62.6			43.6-112 %		"	"	"	"	"

Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Project: 23/19-0B05.07
Project Number: 23/19-0B05.07SOC350
Project Manager: Ms. Kelly Neppi

Work Order #: 0902817
Date Reported: 08/12/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC1-SS1C (0902817-13RE1) Soil Sampled: 06/11/09 14:00 Received: 06/12/09 13:30

1,2,4-Trichlorobenzene	<0.033	0.41	0.033	mg/kg dry	1	B9F2308	06/18/09	06/24/09	EPA 8270C	
1,2-Dichlorobenzene	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.047	0.83	0.047	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.030	0.83	0.030	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.83	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.072	0.83	0.072	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.053	0.83	0.053	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.047	0.83	0.047	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.044	0.83	0.044	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.48	2.0	0.48	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.091	0.83	0.091	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.021	0.41	0.021	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.049	0.83	0.049	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.14	0.83	0.14	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.033	0.83	0.033	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.83	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.83	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
Benzidine	<0.89	3.1	0.89	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.033	0.41	0.033	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.033	0.41	0.033	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.042	0.41	0.042	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.037	0.41	0.037	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-SS1C (0902817-13RE1) Soil Sampled: 06/11/09 14:00 Received: 06/12/09 13:30										
Benzo (k) fluoranthene	<0.038	0.41	0.038	mg/kg dry	1	B9F2308	06/18/09	06/24/09	EPA 8270C	
Benzoic acid	<0.072	0.41	0.072	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.83	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.027	0.41	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
Carbazole	<0.027	0.41	0.027	mg/kg dry	1	"	"	"	"	
Chrysene	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.042	0.41	0.042	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.019	0.41	0.019	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.046	0.41	0.046	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
Fluorene	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.020	0.41	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.051	0.41	0.051	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.040	0.41	0.040	mg/kg dry	1	"	"	"	"	
Isophorone	<0.021	0.41	0.021	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.036	0.41	0.036	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.037	0.41	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.040	0.41	0.040	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.83	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
Phenol	<0.070	0.83	0.070	mg/kg dry	1	"	"	"	"	
Pyrene	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	74.2			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	59.6			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	55.4			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	58.3			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	60.0			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	67.6			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS1 (0902817-14) Soil Sampled: 06/11/09 15:00 Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.035	0.42	0.035	mg/kg dry	1	B9F1801	06/18/09	06/19/09	EPA 8270C	
1,2-Dichlorobenzene	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.026	0.42	0.026	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.031	0.42	0.031	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.049	0.86	0.049	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.031	0.86	0.031	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.045	0.86	0.045	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.045	0.86	0.045	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.12	0.86	0.12	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.074	0.86	0.074	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.027	0.42	0.027	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.055	0.86	0.055	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.049	0.86	0.049	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.036	0.42	0.036	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.045	0.86	0.045	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.026	0.42	0.026	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.046	0.86	0.046	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.50	2.1	0.50	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.042	0.42	0.042	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.095	0.86	0.095	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.022	0.42	0.022	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.051	0.86	0.051	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.14	0.86	0.14	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.035	0.86	0.035	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.13	0.86	0.13	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.036	0.42	0.036	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
Aniline	<0.12	0.86	0.12	mg/kg dry	1	"	"	"	"	
Anthracene	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
Benzidine	<0.92	3.2	0.92	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.035	0.42	0.035	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.035	0.42	0.035	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.044	0.42	0.044	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.038	0.42	0.038	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS1 (0902817-14) Soil Sampled: 06/11/09 15:00 Received: 06/12/09 13:30										
Benzo (k) fluoranthene	<0.040	0.42	0.040	mg/kg dry	1	B9F1801	06/18/09	06/19/09	EPA 8270C	
Benzoic acid	<0.074	0.42	0.074	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.86	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.027	0.42	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.031	0.42	0.031	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.028	0.42	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.026	0.42	0.026	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.027	0.42	0.027	mg/kg dry	1	"	"	"	"	
Carbazole	<0.028	0.42	0.028	mg/kg dry	1	"	"	"	"	
Chrysene	<0.042	0.42	0.042	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.044	0.42	0.044	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.019	0.42	0.019	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.023	0.42	0.023	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.047	0.42	0.047	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.031	0.42	0.031	mg/kg dry	1	"	"	"	"	
Fluorene	<0.023	0.42	0.023	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.021	0.42	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.042	0.42	0.042	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.053	0.42	0.053	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.036	0.42	0.036	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.041	0.42	0.041	mg/kg dry	1	"	"	"	"	
Isophorone	<0.022	0.42	0.022	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.037	0.42	0.037	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.038	0.42	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.041	0.42	0.041	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.023	0.42	0.023	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.86	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
Phenol	<0.073	0.86	0.073	mg/kg dry	1	"	"	"	"	
Pyrene	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	69.5			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	68.1			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	66.3			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	75.6			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	74.1			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	67.8			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS2 (0902817-15RE1) Soil Sampled: 06/11/09 15:30 Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.036	0.43	0.036	mg/kg dry	1	B9F2308	06/18/09	06/25/09	EPA 8270C	
1,2-Dichlorobenzene	<0.033	0.43	0.033	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.026	0.43	0.026	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.030	0.43	0.030	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.032	0.43	0.032	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.050	0.88	0.050	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.032	0.88	0.032	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.046	0.88	0.046	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.046	0.88	0.046	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.12	0.88	0.12	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.076	0.88	0.076	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.028	0.43	0.028	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.057	0.88	0.057	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.025	0.43	0.025	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.025	0.43	0.025	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.050	0.88	0.050	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.037	0.43	0.037	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.046	0.88	0.046	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.026	0.43	0.026	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.047	0.88	0.047	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.51	2.1	0.51	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.043	0.43	0.043	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.097	0.88	0.097	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.022	0.43	0.022	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.053	0.88	0.053	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.14	0.88	0.14	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.030	0.43	0.030	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.036	0.88	0.036	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.030	0.43	0.030	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.13	0.88	0.13	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.037	0.43	0.037	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.030	0.43	0.030	mg/kg dry	1	"	"	"	"	
Aniline	<0.12	0.88	0.12	mg/kg dry	1	"	"	"	"	
Anthracene	<0.033	0.43	0.033	mg/kg dry	1	"	"	"	"	
Benzidine	<0.95	3.3	0.95	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.036	0.43	0.036	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.036	0.43	0.036	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.045	0.43	0.045	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.039	0.43	0.039	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS2 (0902817-15RE1) Soil Sampled: 06/11/09 15:30 Received: 06/12/09 13:30										
Benzo (k) fluoranthene	<0.041	0.43	0.041	mg/kg dry	1	B9F2308	06/18/09	06/25/09	EPA 8270C	
Benzoic acid	<0.076	0.43	0.076	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.16	0.88	0.16	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.028	0.43	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.032	0.43	0.032	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.029	0.43	0.029	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.026	0.43	0.026	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.028	0.43	0.028	mg/kg dry	1	"	"	"	"	
Carbazole	<0.029	0.43	0.029	mg/kg dry	1	"	"	"	"	
Chrysene	<0.043	0.43	0.043	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.045	0.43	0.045	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.025	0.43	0.025	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.020	0.43	0.020	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.024	0.43	0.024	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.049	0.43	0.049	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.033	0.43	0.033	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.032	0.43	0.032	mg/kg dry	1	"	"	"	"	
Fluorene	<0.024	0.43	0.024	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.021	0.43	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.043	0.43	0.043	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.054	0.43	0.054	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.037	0.43	0.037	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.042	0.43	0.042	mg/kg dry	1	"	"	"	"	
Isophorone	<0.022	0.43	0.022	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.038	0.43	0.038	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.039	0.43	0.039	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.042	0.43	0.042	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.033	0.43	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.024	0.43	0.024	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.13	0.88	0.13	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.025	0.43	0.025	mg/kg dry	1	"	"	"	"	
Phenol	<0.075	0.88	0.075	mg/kg dry	1	"	"	"	"	
Pyrene	<0.030	0.43	0.030	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	57.9			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	54.4			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	45.8			48.5-90.1 %		"	"	"	"	S-02
Surrogate: Nitrobenzene-d5	53.8			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	51.0			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	52.6			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS3 (0902817-16RE1) Soil Sampled: 06/11/09 15:45 Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.034	0.42	0.034	mg/kg dry	1	B9F2308	06/18/09	06/25/09	EPA 8270C	
1,2-Dichlorobenzene	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.025	0.42	0.025	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.030	0.42	0.030	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.048	0.85	0.048	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.030	0.85	0.030	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.044	0.85	0.044	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.044	0.85	0.044	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.85	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.073	0.85	0.073	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.027	0.42	0.027	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.054	0.85	0.054	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.048	0.85	0.048	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.035	0.42	0.035	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.044	0.85	0.044	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.025	0.42	0.025	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.046	0.85	0.046	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.49	2.0	0.49	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.042	0.42	0.042	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.094	0.85	0.094	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.022	0.42	0.022	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.051	0.85	0.051	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.14	0.85	0.14	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.034	0.85	0.034	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.13	0.85	0.13	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.035	0.42	0.035	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.85	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
Benzidine	<0.91	3.2	0.91	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.034	0.42	0.034	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.034	0.42	0.034	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.043	0.42	0.043	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.038	0.42	0.038	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS3 (0902817-16RE1) Soil Sampled: 06/11/09 15:45 Received: 06/12/09 13:30										
Benzo (k) fluoranthene	<0.039	0.42	0.039	mg/kg dry	1	B9F2308	06/18/09	06/25/09	EPA 8270C	
Benzoic acid	<0.073	0.42	0.073	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.85	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.027	0.42	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.030	0.42	0.030	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.028	0.42	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.025	0.42	0.025	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.027	0.42	0.027	mg/kg dry	1	"	"	"	"	
Carbazole	<0.028	0.42	0.028	mg/kg dry	1	"	"	"	"	
Chrysene	<0.042	0.42	0.042	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.043	0.42	0.043	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.019	0.42	0.019	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.023	0.42	0.023	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.047	0.42	0.047	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.030	0.42	0.030	mg/kg dry	1	"	"	"	"	
Fluorene	<0.023	0.42	0.023	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.020	0.42	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.042	0.42	0.042	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.052	0.42	0.052	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.035	0.42	0.035	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.041	0.42	0.041	mg/kg dry	1	"	"	"	"	
Isophorone	<0.022	0.42	0.022	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.037	0.42	0.037	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.038	0.42	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.041	0.42	0.041	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.023	0.42	0.023	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.85	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
Phenol	<0.072	0.85	0.072	mg/kg dry	1	"	"	"	"	
Pyrene	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	65.0			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	57.4			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	52.4			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	61.1			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	59.6			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	62.8			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS4 (0902817-17) Soil Sampled: 06/11/09 16:15 Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.033	0.40	0.033	mg/kg dry	1	B9F1801	06/18/09	06/20/09	EPA 8270C	
1,2-Dichlorobenzene	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.046	0.82	0.046	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.029	0.82	0.029	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.043	0.82	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.043	0.82	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.82	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.071	0.82	0.071	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.026	0.40	0.026	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.052	0.82	0.052	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.046	0.82	0.046	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.043	0.82	0.043	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.044	0.82	0.044	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.48	2.0	0.48	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.090	0.82	0.090	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.021	0.40	0.021	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.049	0.82	0.049	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.82	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.033	0.82	0.033	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.82	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.82	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
Benzidine	<0.88	3.0	0.88	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.033	0.40	0.033	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.033	0.40	0.033	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.041	0.40	0.041	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.037	0.40	0.037	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS4 (0902817-17) Soil Sampled: 06/11/09 16:15 Received: 06/12/09 13:30										
Benzo (k) fluoranthene	<0.038	0.40	0.038	mg/kg dry	1	B9F1801	06/18/09	06/20/09	EPA 8270C	
Benzoic acid	<0.071	0.40	0.071	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.82	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.026	0.40	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.027	0.40	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.40	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.026	0.40	0.026	mg/kg dry	1	"	"	"	"	
Carbazole	<0.027	0.40	0.027	mg/kg dry	1	"	"	"	"	
Chrysene	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.041	0.40	0.041	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.018	0.40	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.045	0.40	0.045	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.029	0.40	0.029	mg/kg dry	1	"	"	"	"	
Fluorene	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.020	0.40	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.040	0.40	0.040	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.050	0.40	0.050	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.034	0.40	0.034	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.039	0.40	0.039	mg/kg dry	1	"	"	"	"	
Isophorone	<0.021	0.40	0.021	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.035	0.40	0.035	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.037	0.40	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.039	0.40	0.039	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.030	0.40	0.030	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.022	0.40	0.022	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.82	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.023	0.40	0.023	mg/kg dry	1	"	"	"	"	
Phenol	<0.070	0.82	0.070	mg/kg dry	1	"	"	"	"	
Pyrene	<0.028	0.40	0.028	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	58.4			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	58.5			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	54.4			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	65.6			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	62.1			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	57.4			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS5 (0902817-18) Soil Sampled: 06/11/09 17:10 Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.034	0.42	0.034	mg/kg dry	1	B9F1801	06/18/09	06/20/09	EPA 8270C	R5
1,2-Dichlorobenzene	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.025	0.42	0.025	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.030	0.42	0.030	mg/kg dry	1	"	"	"	"	R5
2,3,4,6-Tetrachlorophenol	<0.048	0.85	0.048	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.030	0.85	0.030	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.044	0.85	0.044	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.044	0.85	0.044	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.85	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.073	0.85	0.073	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.027	0.42	0.027	mg/kg dry	1	"	"	"	"	M2, R2
2,6-Dichlorophenol	<0.054	0.85	0.054	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.048	0.85	0.048	mg/kg dry	1	"	"	"	"	R5
2-Methylnaphthalene	<0.035	0.42	0.035	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.044	0.85	0.044	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.025	0.42	0.025	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.046	0.85	0.046	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.49	2.0	0.49	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.042	0.42	0.042	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.094	0.85	0.094	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.022	0.42	0.022	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.051	0.85	0.051	mg/kg dry	1	"	"	"	"	R5
4-Chloroaniline	<0.14	0.85	0.14	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.034	0.85	0.034	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.13	0.85	0.13	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.035	0.42	0.035	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.85	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	M2, R2
Benzidine	<0.91	3.2	0.91	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.034	0.42	0.034	mg/kg dry	1	"	"	"	"	M2, R2
Benzo (a) pyrene	<0.034	0.42	0.034	mg/kg dry	1	"	"	"	"	M2, R2
Benzo (b) fluoranthene	<0.043	0.42	0.043	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.038	0.42	0.038	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS5 (0902817-18) Soil Sampled: 06/11/09 17:10 Received: 06/12/09 13:30										
Benzo (k) fluoranthene	<0.039	0.42	0.039	mg/kg dry	1	B9F1801	06/18/09	06/20/09	EPA 8270C	
Benzoic acid	<0.073	0.42	0.073	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.85	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.027	0.42	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.030	0.42	0.030	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.028	0.42	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.025	0.42	0.025	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.027	0.42	0.027	mg/kg dry	1	"	"	"	"	
Carbazole	<0.028	0.42	0.028	mg/kg dry	1	"	"	"	"	
Chrysene	<0.042	0.42	0.042	mg/kg dry	1	"	"	"	"	M2, R2
Dibenz (a,h) anthracene	<0.043	0.42	0.043	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.019	0.42	0.019	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.023	0.42	0.023	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.047	0.42	0.047	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.030	0.42	0.030	mg/kg dry	1	"	"	"	"	R5
Fluorene	<0.023	0.42	0.023	mg/kg dry	1	"	"	"	"	M2, R2
Hexachlorobenzene	<0.020	0.42	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.042	0.42	0.042	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.052	0.42	0.052	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.035	0.42	0.035	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.041	0.42	0.041	mg/kg dry	1	"	"	"	"	
Isophorone	<0.022	0.42	0.022	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.037	0.42	0.037	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.038	0.42	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.041	0.42	0.041	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.032	0.42	0.032	mg/kg dry	1	"	"	"	"	R5
N-Nitrosodiphenylamine	<0.023	0.42	0.023	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.85	0.12	mg/kg dry	1	"	"	"	"	M2, R2
Phenanthrene	<0.024	0.42	0.024	mg/kg dry	1	"	"	"	"	M2, R2
Phenol	<0.072	0.85	0.072	mg/kg dry	1	"	"	"	"	R5
Pyrene	<0.029	0.42	0.029	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	69.6			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	67.7			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	63.2			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	72.0			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	70.9			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	68.0			43.6-112 %		"	"	"	"	

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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-FB-1(water) (0902817-01) Water Sampled: 06/10/09 12:00 Received: 06/12/09 13:30										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9F2213	06/22/09	06/22/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	

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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-FB-1(water) (0902817-01) Water Sampled: 06/10/09 12:00 Received: 06/12/09 13:30										
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	B9F2213	06/22/09	06/22/09	EPA 8260B	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	108			76.4-125 %		"	"	"	"	
Surrogate: Dibromofluoromethane	101			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	96.8			80-125 %		"	"	"	"	

GP-FB-2 (soil) (0902817-02) Water Sampled: 06/10/09 13:00 Received: 06/12/09 13:30										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9F2213	06/22/09	06/22/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	

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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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GP-FB-2 (soil) (0902817-02) Water **Sampled: 06/10/09 13:00** **Received: 06/12/09 13:30**

1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	B9F2213	06/22/09	06/22/09	EPA 8260B	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	

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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-FB-2 (soil) (0902817-02) Water Sampled: 06/10/09 13:00 Received: 06/12/09 13:30										
Ethyl ether	<0.53	5.0	0.53	ug/L	1	B9F2213	06/22/09	06/22/09	EPA 8260B	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	0.47	2.0	0.42	ug/L	1	"	"	"	"	J
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	0.82	1.0	0.21	ug/L	1	"	"	"	"	J
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	109			76.4-125 %		"	"	"	"	
Surrogate: Dibromofluoromethane	99.1			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	98.5			80-125 %		"	"	"	"	

Trip Blank (0902817-03) Water Sampled: 05/29/09 00:00 Received: 06/12/09 13:30										H3b
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9F2213	06/22/09	06/22/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	

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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (0902817-03) Water										H3b
Sampled: 05/29/09 00:00										
Received: 06/12/09 13:30										
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	B9F2213	06/22/09	06/22/09	EPA 8260B	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	

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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (0902817-03) Water Sampled: 05/29/09 00:00 Received: 06/12/09 13:30										H3b
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	B9F2213	06/22/09	06/22/09	EPA 8260B	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	1.5	5.0	0.65	ug/L	1	"	"	"	"	J, B
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	111			76.4-125 %		"	"	"	"	
Surrogate: Dibromofluoromethane	103			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	101			80-125 %		"	"	"	"	

SS5 (0902817-18) Soil Sampled: 06/11/09 17:10 Received: 06/12/09 13:30										W-03
1,1,1,2-Tetrachloroethane	<0.048	0.46	0.048	mg/kg dry	1	B9F1610	06/16/09	06/16/09	EPA 8260B	
1,1,1-Trichloroethane	<0.061	0.46	0.061	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.046	0.46	0.046	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.068	0.46	0.068	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.12	0.46	0.12	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.044	0.46	0.044	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.046	0.46	0.046	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.050	0.46	0.050	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.12	0.92	0.12	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.097	0.46	0.097	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.12	0.92	0.12	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.037	0.46	0.037	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.10	0.92	0.10	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.070	0.46	0.070	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.050	0.46	0.050	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS5 (0902817-18) Soil Sampled: 06/11/09 17:10 Received: 06/12/09 13:30										W-03
1,2-Dichloroethane	<0.046	0.46	0.046	mg/kg dry	1	B9F1610	06/16/09	06/16/09	EPA 8260B	
1,2-Dichloropropane	<0.051	0.46	0.051	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.028	0.46	0.028	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.051	0.46	0.051	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.031	0.46	0.031	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.033	0.46	0.033	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.12	0.92	0.12	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.22	3.7	0.22	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.033	0.46	0.033	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.053	0.46	0.053	mg/kg dry	1	"	"	"	"	
Acetone	<0.59	3.7	0.59	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.12	0.92	0.12	mg/kg dry	1	"	"	"	"	
Benzene	<0.028	0.46	0.028	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.035	0.46	0.035	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.046	0.46	0.046	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.064	0.46	0.064	mg/kg dry	1	"	"	"	"	
Bromoform	<0.15	0.92	0.15	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.26	0.92	0.26	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.050	0.46	0.050	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.046	0.46	0.046	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.13	0.46	0.13	mg/kg dry	1	"	"	"	"	
Chloroform	<0.077	0.46	0.077	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.075	0.46	0.075	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.085	0.46	0.085	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.042	0.46	0.042	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.059	0.46	0.059	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.085	0.46	0.085	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.15	0.92	0.15	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.081	0.46	0.081	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.088	0.92	0.088	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.040	0.46	0.040	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.24	1.8	0.24	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.042	0.46	0.042	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.16	0.92	0.16	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.17	0.92	0.17	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.031	0.46	0.031	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.31	1.8	0.31	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.12	0.92	0.12	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.059	0.46	0.059	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS5 (0902817-18) Soil Sampled: 06/11/09 17:10 Received: 06/12/09 13:30										W-03
n-Propylbenzene	<0.026	0.46	0.026	mg/kg dry	1	B9F1610	06/16/09	06/16/09	EPA 8260B	
o-Xylene	<0.057	0.46	0.057	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.055	0.46	0.055	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.018	0.46	0.018	mg/kg dry	1	"	"	"	"	
Styrene	<0.073	0.46	0.073	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.033	0.46	0.033	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.064	0.46	0.064	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.18	3.7	0.18	mg/kg dry	1	"	"	"	"	
Toluene	<0.051	0.46	0.051	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.040	0.46	0.040	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.064	0.46	0.064	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.073	0.46	0.073	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.059	0.46	0.059	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.042	0.46	0.042	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.1			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	98.3			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	94.2			80-120 %		"	"	"	"	

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Analytical Results
Davy Laboratories, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-FB-1(water) (0902817-01) Water Sampled: 06/10/09 12:00 Received: 06/12/09 13:30										
Nitrate/Nitrite as N	<0.06	0.06	0.02	mg/L	1	D906393		06/17/09	SM 4500 NO3-F-00	
Total Kjeldahl as N	0.65	0.55	0.15	mg/L	1	D906501	"	06/23/09	SM 4500 NH3 C-97	

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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2406 - EPA 245.1/7470A Digestion

Blank (B9F2406-BLK1)

Prepared: 06/24/09 Analyzed: 06/25/09

Mercury < 0.00020 0.00020 0.000031 mg/L

LCS (B9F2406-BS1)

Prepared: 06/24/09 Analyzed: 06/25/09

Mercury 0.00196 0.00020 0.000031 mg/L 0.00200 98.0 80-120

LCS Dup (B9F2406-BSD1)

Prepared: 06/24/09 Analyzed: 06/25/09

Mercury 0.00201 0.00020 0.000031 mg/L 0.00200 100 80-120 2.52 20

Matrix Spike (B9F2406-MS1)

Source: 0902812-01

Prepared: 06/24/09 Analyzed: 06/25/09

Mercury 0.00203 0.00020 0.000031 mg/L 0.00200 <0.00020 102 75-125

Matrix Spike Dup (B9F2406-MSD1)

Source: 0902812-01

Prepared: 06/24/09 Analyzed: 06/25/09

Mercury 0.00192 0.00020 0.000031 mg/L 0.00200 <0.00020 96.0 75-125 5.57 20

Batch B9F2506 - EPA 200.7/3005A Digestion

Blank (B9F2506-BLK1)

Prepared & Analyzed: 06/25/09

Arsenic < 0.010 0.010 0.0020 mg/L
 Cadmium < 0.0010 0.0010 0.000099 mg/L
 Chromium < 0.010 0.010 0.00024 mg/L
 Copper < 0.020 0.020 0.0014 mg/L
 Lead < 0.0030 0.0030 0.00068 mg/L
 Nickel < 0.0050 0.0050 0.00028 mg/L
 Selenium < 0.020 0.020 0.0022 mg/L
 Silver < 0.0050 0.0050 0.00018 mg/L
 Zinc < 0.020 0.020 0.0044 mg/L

LCS (B9F2506-BS1)

Prepared & Analyzed: 06/25/09

Arsenic 0.381 0.010 0.0020 mg/L 0.399 95.4 80-120
 Cadmium 0.393 0.0010 0.000099 mg/L 0.399 98.6 80-120
 Chromium 0.386 0.010 0.00024 mg/L 0.399 96.6 80-120
 Copper 0.386 0.020 0.0014 mg/L 0.399 96.8 80-120
 Lead 0.393 0.0030 0.00068 mg/L 0.399 98.4 80-120
 Nickel 0.391 0.0050 0.00028 mg/L 0.399 98.1 80-120
 Selenium 0.382 0.020 0.0022 mg/L 0.399 95.8 80-120
 Silver 0.0385 0.0050 0.00018 mg/L 0.0399 96.6 80-120
 Zinc 0.394 0.020 0.0044 mg/L 0.399 98.9 80-120

LCS Dup (B9F2506-BSD1)

Prepared & Analyzed: 06/25/09

Arsenic 0.386 0.010 0.0020 mg/L 0.399 96.8 80-120 1.41 20
 Cadmium 0.399 0.0010 0.000099 mg/L 0.399 99.9 80-120 1.27 20
 Chromium 0.390 0.010 0.00024 mg/L 0.399 97.8 80-120 1.21 20
 Copper 0.390 0.020 0.0014 mg/L 0.399 97.7 80-120 0.943 20
 Lead 0.397 0.0030 0.00068 mg/L 0.399 99.4 80-120 1.02 20
 Nickel 0.397 0.0050 0.00028 mg/L 0.399 99.4 80-120 1.35 20

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F2506 - EPA 200.7/3005A Digestion											
LCS Dup (B9F2506-BSD1)					Prepared & Analyzed: 06/25/09						
Selenium	0.384	0.020	0.0022	mg/L	0.399		96.2	80-120	0.403	20	
Silver	0.0388	0.0050	0.00018	mg/L	0.0399		97.3	80-120	0.799	20	
Zinc	0.392	0.020	0.0044	mg/L	0.399		98.1	80-120	0.749	20	
Matrix Spike (B9F2506-MS1)					Source: 0902812-03		Prepared & Analyzed: 06/25/09				
Arsenic	0.363	0.010	0.0020	mg/L	0.399	<0.010	91.0	75-125			
Cadmium	0.365	0.0010	0.000099	mg/L	0.399	0.00138	91.2	75-125			
Chromium	0.360	0.010	0.00024	mg/L	0.399	<0.010	89.7	75-125			
Copper	0.363	0.020	0.0014	mg/L	0.399	<0.020	90.4	75-125			
Lead	0.361	0.0030	0.00068	mg/L	0.399	<0.0030	90.6	75-125			
Nickel	0.363	0.0050	0.00028	mg/L	0.399	<0.0050	90.1	75-125			
Selenium	0.363	0.020	0.0022	mg/L	0.399	<0.020	90.0	75-125			
Silver	0.0362	0.0050	0.00018	mg/L	0.0399	<0.0050	90.7	75-125			
Zinc	0.359	0.020	0.0044	mg/L	0.399	<0.020	88.7	75-125			
Matrix Spike Dup (B9F2506-MSD1)					Source: 0902812-03		Prepared & Analyzed: 06/25/09				
Arsenic	0.362	0.010	0.0020	mg/L	0.399	<0.010	90.7	75-125	0.357	20	
Cadmium	0.364	0.0010	0.000099	mg/L	0.399	0.00138	90.8	75-125	0.422	20	
Chromium	0.357	0.010	0.00024	mg/L	0.399	<0.010	89.1	75-125	0.574	20	
Copper	0.361	0.020	0.0014	mg/L	0.399	<0.020	89.8	75-125	0.624	20	
Lead	0.361	0.0030	0.00068	mg/L	0.399	<0.0030	90.5	75-125	0.0711	20	
Nickel	0.361	0.0050	0.00028	mg/L	0.399	<0.0050	89.7	75-125	0.403	20	
Selenium	0.362	0.020	0.0022	mg/L	0.399	<0.020	89.9	75-125	0.143	20	
Silver	0.0360	0.0050	0.00018	mg/L	0.0399	<0.0050	90.2	75-125	0.536	20	
Zinc	0.357	0.020	0.0044	mg/L	0.399	<0.020	88.3	75-125	0.459	20	
Batch B9F3014 - EPA 200.8 Digestion											
Blank (B9F3014-BLK1)					Prepared: 06/30/09 Analyzed: 07/01/09						
Antimony	< 0.50	0.50	0.046	ug/L							
Beryllium	< 0.50	0.50	0.027	ug/L							
Thallium	< 0.50	0.50	0.0081	ug/L							
LCS (B9F3014-BS1)					Prepared: 06/30/09 Analyzed: 07/01/09						
Antimony	17.8	0.50	0.046	ug/L	20.0		89.2	80-120			
Beryllium	18.8	0.50	0.027	ug/L	20.0		94.2	80-120			
Thallium	20.1	0.50	0.0081	ug/L	20.0		101	80-120			
LCS Dup (B9F3014-BSD1)					Prepared: 06/30/09 Analyzed: 07/01/09						
Antimony	19.2	0.50	0.046	ug/L	20.0		96.0	80-120	7.35	20	
Beryllium	21.1	0.50	0.027	ug/L	20.0		105	80-120	11.2	20	
Thallium	21.2	0.50	0.0081	ug/L	20.0		106	80-120	5.37	20	

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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F3014 - EPA 200.8 Digestion											
Matrix Spike (B9F3014-MS1)		Source: 0902817-01			Prepared: 06/30/09		Analyzed: 07/01/09				
Antimony	19.1	0.50	0.046	ug/L	20.0	2.33	83.6	75-125			
Beryllium	19.9	0.50	0.027	ug/L	20.0	0.961	94.5	75-125			
Thallium	20.2	0.50	0.0081	ug/L	20.0	0.528	98.5	75-125			
Matrix Spike Dup (B9F3014-MSD1)		Source: 0902817-01			Prepared: 06/30/09		Analyzed: 07/01/09				
Antimony	19.6	0.50	0.046	ug/L	20.0	2.33	86.6	75-125	3.06	20	
Beryllium	19.2	0.50	0.027	ug/L	20.0	0.961	91.2	75-125	3.46	20	
Thallium	20.4	0.50	0.0081	ug/L	20.0	0.528	99.4	75-125	0.847	20	

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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1805 - EPA 3050B

Blank (B9F1805-BLK1)

Prepared & Analyzed: 06/18/09

Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							

LCS (B9F1805-BS1)

Prepared & Analyzed: 06/18/09

Antimony	36.6	0.50	0.0055	mg/kg wet	39.9		91.8	80-120			
Arsenic	37.8	0.50	0.10	mg/kg wet	39.9		94.8	80-120			
Arsenic	37.8	0.50	0.10	mg/kg wet	39.9		94.8	80-120			
Beryllium	3.88	0.25	0.011	mg/kg wet	3.99		97.3	80-120			
Cadmium	39.3	0.25	0.025	mg/kg wet	39.9		98.4	80-120			
Chromium	38.5	0.50	0.012	mg/kg wet	39.9		96.6	80-120			
Copper	37.0	1.0	0.070	mg/kg wet	39.9		92.8	80-120			
Lead	40.2	1.0	0.034	mg/kg wet	39.9		101	80-120			
Nickel	38.8	0.50	0.014	mg/kg wet	39.9		97.3	80-120			
Selenium	37.1	1.0	0.11	mg/kg wet	39.9		93.1	80-120			
Silver	3.89	0.25	0.0090	mg/kg wet	3.99		97.5	80-120			
Thallium	37.5	2.0	0.13	mg/kg wet	39.9		94.0	80-120			
Zinc	39.5	1.0	0.22	mg/kg wet	39.9		98.9	80-120			

LCS Dup (B9F1805-BSD1)

Prepared & Analyzed: 06/18/09

Antimony	35.1	0.50	0.0055	mg/kg wet	39.9		88.0	80-120	4.21	20	
Arsenic	36.3	0.50	0.10	mg/kg wet	39.9		91.0	80-120	4.04	20	
Arsenic	36.3	0.50	0.10	mg/kg wet	39.9		91.0	80-120	4.04	20	
Beryllium	3.73	0.25	0.011	mg/kg wet	3.99		93.5	80-120	4.01	20	
Cadmium	37.7	0.25	0.025	mg/kg wet	39.9		94.6	80-120	3.92	20	
Chromium	36.9	0.50	0.012	mg/kg wet	39.9		92.5	80-120	4.29	20	
Copper	35.2	1.0	0.070	mg/kg wet	39.9		88.3	80-120	4.94	20	
Lead	37.5	1.0	0.034	mg/kg wet	39.9		94.0	80-120	6.99	20	
Nickel	37.1	0.50	0.014	mg/kg wet	39.9		93.1	80-120	4.45	20	
Selenium	35.9	1.0	0.11	mg/kg wet	39.9		89.9	80-120	3.49	20	

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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1805 - EPA 3050B											
LCS Dup (B9F1805-BSD1)											
						Prepared & Analyzed: 06/18/09					
Silver	3.74	0.25	0.0090	mg/kg wet	3.99		93.6	80-120	4.04	20	
Thallium	36.3	2.0	0.13	mg/kg wet	39.9		91.1	80-120	3.14	20	
Zinc	39.0	1.0	0.22	mg/kg wet	39.9		97.7	80-120	1.28	20	
Matrix Spike (B9F1805-MS1)											
						Source: 0902810-01 Prepared & Analyzed: 06/18/09					
Antimony	41.4	0.59	0.0065	mg/kg dry	46.9	1.38	85.3	75-125			
Arsenic	47.5	0.59	0.12	mg/kg dry	46.9	5.01	90.4	75-125			
Arsenic	47.5	0.59	0.12	mg/kg dry	46.9	5.01	90.4	75-125			
Beryllium	4.63	0.29	0.013	mg/kg dry	4.69	<0.29	95.5	75-125			
Cadmium	40.9	0.29	0.029	mg/kg dry	46.9	0.460	86.2	75-125			
Chromium	57.6	0.59	0.014	mg/kg dry	46.9	14.2	92.4	75-125			
Copper	176	1.2	0.082	mg/kg dry	46.9	32.3	306	75-125			M1
Lead	266	1.2	0.040	mg/kg dry	46.9	100	352	75-125			M1
Nickel	56.9	0.59	0.016	mg/kg dry	46.9	15.6	87.9	75-125			
Selenium	40.8	1.2	0.13	mg/kg dry	46.9	<1.2	86.9	75-125			
Silver	4.54	0.29	0.011	mg/kg dry	4.69	<0.29	96.0	75-125			
Thallium	38.2	2.4	0.15	mg/kg dry	46.9	<2.4	79.8	75-125			
Zinc	224	1.2	0.26	mg/kg dry	46.9	142	175	75-125			M1
Matrix Spike Dup (B9F1805-MSD1)											
						Source: 0902810-01 Prepared & Analyzed: 06/18/09					
Antimony	44.3	0.59	0.0065	mg/kg dry	46.9	1.38	91.4	75-125	6.74	20	
Arsenic	48.6	0.59	0.12	mg/kg dry	46.9	5.01	92.8	75-125	2.32	20	
Arsenic	48.6	0.59	0.12	mg/kg dry	46.9	5.01	92.8	75-125	2.32	20	
Beryllium	4.66	0.29	0.013	mg/kg dry	4.69	<0.29	96.0	75-125	0.551	20	
Cadmium	40.5	0.29	0.029	mg/kg dry	46.9	0.460	85.3	75-125	0.953	20	
Chromium	58.5	0.59	0.014	mg/kg dry	46.9	14.2	94.3	75-125	1.50	20	
Copper	87.8	1.2	0.082	mg/kg dry	46.9	32.3	118	75-125	66.9	20	R2
Lead	209	1.2	0.040	mg/kg dry	46.9	100	232	75-125	23.8	20	M1, R2
Nickel	57.2	0.59	0.016	mg/kg dry	46.9	15.6	88.7	75-125	0.636	20	
Selenium	41.2	1.2	0.13	mg/kg dry	46.9	<1.2	87.8	75-125	1.03	20	
Silver	4.65	0.29	0.011	mg/kg dry	4.69	<0.29	98.4	75-125	2.39	20	
Thallium	38.5	2.4	0.15	mg/kg dry	46.9	<2.4	80.4	75-125	0.691	20	
Zinc	227	1.2	0.26	mg/kg dry	46.9	142	180	75-125	1.06	20	M1

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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F2406 - EPA 245.1/7470A Digestion											
Blank (B9F2406-BLK1) Prepared: 06/24/09 Analyzed: 06/25/09											
Mercury	< 0.00020	0.00020	0.000031	mg/L							
LCS (B9F2406-BS1) Prepared: 06/24/09 Analyzed: 06/25/09											
Mercury	0.00196	0.00020	0.000031	mg/L	0.00200		98.0	80-120			
LCS Dup (B9F2406-BSD1) Prepared: 06/24/09 Analyzed: 06/25/09											
Mercury	0.00201	0.00020	0.000031	mg/L	0.00200		100	80-120	2.52	20	
Matrix Spike (B9F2406-MS1) Source: 0902812-01 Prepared: 06/24/09 Analyzed: 06/25/09											
Mercury	0.00203	0.00020	0.000031	mg/L	0.00200	<0.00020	102	75-125			
Matrix Spike Dup (B9F2406-MSD1) Source: 0902812-01 Prepared: 06/24/09 Analyzed: 06/25/09											
Mercury	0.00192	0.00020	0.000031	mg/L	0.00200	<0.00020	96.0	75-125	5.57	20	
Batch B9F2412 - EPA 200.8 Digestion											
Blank (B9F2412-BLK1) Prepared: 06/24/09 Analyzed: 06/25/09											
Antimony	< 0.50	0.50	0.046	ug/L							
Beryllium	< 0.50	0.50	0.027	ug/L							
Thallium	< 0.50	0.50	0.0081	ug/L							
LCS (B9F2412-BS1) Prepared: 06/24/09 Analyzed: 06/25/09											
Antimony	18.4	0.50	0.046	ug/L	20.0		92.2	80-120			
Beryllium	19.6	0.50	0.027	ug/L	20.0		97.8	80-120			
Thallium	19.2	0.50	0.0081	ug/L	20.0		96.1	80-120			
LCS Dup (B9F2412-BSD1) Prepared: 06/24/09 Analyzed: 06/25/09											
Antimony	19.8	0.50	0.046	ug/L	20.0		98.8	80-120	6.90	20	
Beryllium	18.5	0.50	0.027	ug/L	20.0		92.7	80-120	5.34	20	
Thallium	19.3	0.50	0.0081	ug/L	20.0		96.5	80-120	0.438	20	
Matrix Spike (B9F2412-MS1) Source: 0902812-04 Prepared: 06/24/09 Analyzed: 06/25/09											
Antimony	19.3	0.50	0.046	ug/L	20.0	<0.50	96.4	75-125			
Beryllium	3.75	0.50	0.027	ug/L	20.0	<0.50	17.6	75-125			M2
Thallium	19.5	0.50	0.0081	ug/L	20.0	<0.50	97.0	75-125			
Matrix Spike Dup (B9F2412-MSD1) Source: 0902812-04 Prepared: 06/24/09 Analyzed: 06/25/09											
Antimony	19.4	0.50	0.046	ug/L	20.0	<0.50	97.0	75-125	0.576	20	
Beryllium	3.82	0.50	0.027	ug/L	20.0	<0.50	17.9	75-125	1.98	20	M2
Thallium	19.9	0.50	0.0081	ug/L	20.0	<0.50	98.9	75-125	1.86	20	

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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2413 - EPA 200.7/3005A Digestion

Blank (B9F2413-BLK1)

Prepared: 06/24/09 Analyzed: 06/25/09

Arsenic	< 0.010	0.010	0.0020	mg/L							
Cadmium	< 0.0010	0.0010	0.000099	mg/L							
Chromium	< 0.010	0.010	0.00024	mg/L							
Copper	< 0.020	0.020	0.0014	mg/L							
Lead	< 0.0030	0.0030	0.00068	mg/L							
Nickel	< 0.0050	0.0050	0.00028	mg/L							
Selenium	< 0.020	0.020	0.0022	mg/L							
Silver	< 0.0050	0.0050	0.00018	mg/L							
Zinc	< 0.020	0.020	0.0044	mg/L							

LCS (B9F2413-BS1)

Prepared: 06/24/09 Analyzed: 06/25/09

Arsenic	0.372	0.010	0.0020	mg/L	0.399		93.3	80-120			
Cadmium	0.391	0.0010	0.000099	mg/L	0.399		98.1	80-120			
Chromium	0.385	0.010	0.00024	mg/L	0.399		96.4	80-120			
Copper	0.379	0.020	0.0014	mg/L	0.399		94.9	80-120			
Lead	0.392	0.0030	0.00068	mg/L	0.399		98.4	80-120			
Nickel	0.388	0.0050	0.00028	mg/L	0.399		97.2	80-120			
Selenium	0.369	0.020	0.0022	mg/L	0.399		92.4	80-120			
Silver	0.0380	0.0050	0.00018	mg/L	0.0399		95.4	80-120			
Zinc	0.384	0.020	0.0044	mg/L	0.399		96.4	80-120			

LCS Dup (B9F2413-BSD1)

Prepared: 06/24/09 Analyzed: 06/25/09

Arsenic	0.365	0.010	0.0020	mg/L	0.399		91.5	80-120	2.02	20	
Cadmium	0.384	0.0010	0.000099	mg/L	0.399		96.2	80-120	1.91	20	
Chromium	0.375	0.010	0.00024	mg/L	0.399		94.1	80-120	2.41	20	
Copper	0.371	0.020	0.0014	mg/L	0.399		92.9	80-120	2.15	20	
Lead	0.384	0.0030	0.00068	mg/L	0.399		96.3	80-120	2.11	20	
Nickel	0.380	0.0050	0.00028	mg/L	0.399		95.2	80-120	2.13	20	
Selenium	0.363	0.020	0.0022	mg/L	0.399		91.1	80-120	1.48	20	
Silver	0.0374	0.0050	0.00018	mg/L	0.0399		93.6	80-120	1.85	20	
Zinc	0.370	0.020	0.0044	mg/L	0.399		92.8	80-120	3.72	20	

Matrix Spike (B9F2413-MS1)

Source: 0902812-04

Prepared: 06/24/09 Analyzed: 06/25/09

Arsenic	0.363	0.010	0.0020	mg/L	0.399	<0.010	90.9	75-125			
Cadmium	0.381	0.0010	0.000099	mg/L	0.399	<0.0010	95.6	75-125			
Chromium	0.374	0.010	0.00024	mg/L	0.399	<0.010	93.6	75-125			
Copper	0.369	0.020	0.0014	mg/L	0.399	<0.020	92.5	75-125			
Lead	0.382	0.0030	0.00068	mg/L	0.399	0.00640	94.0	75-125			
Nickel	0.379	0.0050	0.00028	mg/L	0.399	<0.0050	94.5	75-125			
Selenium	0.364	0.020	0.0022	mg/L	0.399	<0.020	91.2	75-125			
Silver	0.0372	0.0050	0.00018	mg/L	0.0399	0.0106	66.6	75-125			M2

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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F2413 - EPA 200.7/3005A Digestion											
Matrix Spike (B9F2413-MS1)		Source: 0902812-04			Prepared: 06/24/09		Analyzed: 06/25/09				
Zinc	0.382	0.020	0.0044	mg/L	0.399	0.135	61.9	75-125			M2
Matrix Spike Dup (B9F2413-MSD1)											
		Source: 0902812-04			Prepared: 06/24/09		Analyzed: 06/25/09				
Arsenic	0.370	0.010	0.0020	mg/L	0.399	<0.010	92.8	75-125	2.15	20	
Cadmium	0.389	0.0010	0.000099	mg/L	0.399	<0.0010	97.4	75-125	1.90	20	
Chromium	0.382	0.010	0.00024	mg/L	0.399	<0.010	95.6	75-125	2.06	20	
Copper	0.378	0.020	0.0014	mg/L	0.399	<0.020	94.7	75-125	2.30	20	
Lead	0.391	0.0030	0.00068	mg/L	0.399	0.00640	96.3	75-125	2.33	20	
Nickel	0.386	0.0050	0.00028	mg/L	0.399	<0.0050	96.4	75-125	1.96	20	
Selenium	0.369	0.020	0.0022	mg/L	0.399	<0.020	92.6	75-125	1.49	20	
Silver	0.0379	0.0050	0.00018	mg/L	0.0399	0.0106	68.4	75-125	1.98	20	M2
Zinc	0.383	0.020	0.0044	mg/L	0.399	0.135	62.3	75-125	0.492	20	M2
Batch B9F2418 - EPA 7471A											
Blank (B9F2418-BLK1)					Prepared: 06/24/09		Analyzed: 06/25/09				
Mercury	< 0.10	0.10	0.0031	mg/kg wet							
LCS (B9F2418-BS1)											
					Prepared: 06/24/09		Analyzed: 06/25/09				
Mercury	0.206	0.10	0.0031	mg/kg wet	0.200		103	80-120			
LCS Dup (B9F2418-BSD1)											
					Prepared: 06/24/09		Analyzed: 06/25/09				
Mercury	0.201	0.10	0.0031	mg/kg wet	0.200		100	80-120	2.46	20	
Matrix Spike (B9F2418-MS1)											
		Source: 0902850-01			Prepared: 06/24/09		Analyzed: 06/25/09				
Mercury	0.209	0.10	0.0031	mg/kg dry	0.200	<0.10	104	75-125			
Matrix Spike Dup (B9F2418-MSD1)											
		Source: 0902850-01			Prepared: 06/24/09		Analyzed: 06/25/09				
Mercury	0.192	0.10	0.0031	mg/kg dry	0.200	<0.10	96.0	75-125	8.48	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1803 - General Preparation											
Duplicate (B9F1803-DUP1)	Source: 0902817-13		Prepared & Analyzed: 06/18/09								
% Solids	82.0			%		81.0			1.23	20	
Duplicate (B9F1803-DUP2)	Source: 0902820-09		Prepared & Analyzed: 06/18/09								
% Solids	84.0			%		85.0			1.18	20	
Duplicate (B9F1803-DUP3)	Source: 0902856-07		Prepared & Analyzed: 06/18/09								
% Solids	85.0			%		85.0			0.00	20	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05.07SOC350
 Project Manager: Ms. Kelly Nepl

Work Order #: 0902817
 Date Reported: 08/12/09

PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1507 - EPA 3510C (Sep Funnel)

Blank (B9F1507-BLK1)

Prepared: 06/15/09 Analyzed: 06/16/09

4,4'-DDD	< 0.037	0.40	0.037	ug/L							
4,4'-DDE	< 0.037	0.40	0.037	ug/L							
4,4'-DDT	< 0.042	0.40	0.042	ug/L							
a-Chlordane	< 0.038	0.40	0.038	ug/L							
Aldrin	< 0.039	0.40	0.039	ug/L							
alpha-BHC	< 0.045	0.40	0.045	ug/L							
beta-BHC	< 0.053	0.40	0.053	ug/L							
delta-BHC	< 0.046	0.40	0.046	ug/L							
Dieldrin	< 0.037	0.40	0.037	ug/L							
Endosulfan I	< 0.040	0.40	0.040	ug/L							
Endosulfan II	< 0.041	0.40	0.041	ug/L							
Endosulfan sulfate	< 0.045	0.40	0.045	ug/L							
Endrin	< 0.042	0.40	0.042	ug/L							
Endrin aldehyde	< 0.051	0.40	0.051	ug/L							
Endrin ketone	< 0.042	0.40	0.042	ug/L							
gamma-BHC (Lindane)	< 0.047	0.40	0.047	ug/L							
gamma-Chlordane	< 0.037	0.40	0.037	ug/L							
Heptachlor	< 0.039	0.40	0.039	ug/L							
Heptachlor epoxide	< 0.041	0.40	0.041	ug/L							
Methoxychlor	< 0.045	0.40	0.045	ug/L							
Toxaphene	< 0.19	1.0	0.19	ug/L							
Surrogate: Decachlorobiphenyl	0.860			ug/L	1.00		86.0	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.770			ug/L	1.00		77.0	71.7-111			

LCS (B9F1507-BS1)

Prepared: 06/15/09 Analyzed: 06/16/09

4,4'-DDD	1.12	0.40	0.037	ug/L	1.25		89.6	70-130			
4,4'-DDE	1.10	0.40	0.037	ug/L	1.25		87.6	70-130			
4,4'-DDT	1.14	0.40	0.042	ug/L	1.25		91.2	70-130			
a-Chlordane	1.08	0.40	0.038	ug/L	1.25		86.8	70-130			
Aldrin	1.04	0.40	0.039	ug/L	1.25		83.2	70-130			
alpha-BHC	1.09	0.40	0.045	ug/L	1.25		87.2	70-130			
beta-BHC	1.05	0.40	0.053	ug/L	1.25		84.0	70-130			
delta-BHC	1.10	0.40	0.046	ug/L	1.25		88.4	70-130			
Dieldrin	1.08	0.40	0.037	ug/L	1.25		86.8	70-130			
Endosulfan I	1.09	0.40	0.040	ug/L	1.25		87.2	70-130			
Endosulfan II	1.10	0.40	0.041	ug/L	1.25		87.6	70-130			
Endosulfan sulfate	1.10	0.40	0.045	ug/L	1.25		87.6	70-130			
Endrin	1.12	0.40	0.042	ug/L	1.25		89.2	70-130			
Endrin aldehyde	1.14	0.40	0.051	ug/L	1.25		91.6	70-130			
Endrin ketone	1.10	0.40	0.042	ug/L	1.25		88.0	70-130			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1507 - EPA 3510C (Sep Funnel)

LCS (B9F1507-BS1)

Prepared: 06/15/09 Analyzed: 06/16/09

gamma-BHC (Lindane)	1.10	0.40	0.047	ug/L	1.25		88.0	70-130			
gamma-Chlordane	1.06	0.40	0.037	ug/L	1.25		85.2	70-130			
Heptachlor	1.06	0.40	0.039	ug/L	1.25		85.2	70-130			
Heptachlor epoxide	1.09	0.40	0.041	ug/L	1.25		87.2	70-130			
Methoxychlor	1.15	0.40	0.045	ug/L	1.25		92.0	70-130			
Surrogate: Decachlorobiphenyl	0.920			ug/L	1.00		92.0	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.855			ug/L	1.00		85.5	71.7-111			

LCS Dup (B9F1507-BSD1)

Prepared: 06/15/09 Analyzed: 06/17/09

Q9, QM-10

4,4'-DDD	1.16	0.40	0.037	ug/L	1.25		92.4	70-130	3.08	20	
4,4'-DDE	1.15	0.40	0.037	ug/L	1.25		92.0	70-130	4.90	20	
4,4'-DDT	1.22	0.40	0.042	ug/L	1.25		97.2	70-130	6.37	20	
a-Chlordane	1.15	0.40	0.038	ug/L	1.25		92.0	70-130	5.82	20	
Aldrin	1.11	0.40	0.039	ug/L	1.25		88.8	70-130	6.51	20	
alpha-BHC	1.17	0.40	0.045	ug/L	1.25		93.6	70-130	7.08	20	
beta-BHC	1.12	0.40	0.053	ug/L	1.25		89.6	70-130	6.45	20	
delta-BHC	1.18	0.40	0.046	ug/L	1.25		94.4	70-130	6.56	20	
Dieldrin	1.15	0.40	0.037	ug/L	1.25		92.0	70-130	5.82	20	
Endosulfan I	1.15	0.40	0.040	ug/L	1.25		92.0	70-130	5.36	20	
Endosulfan II	1.14	0.40	0.041	ug/L	1.25		91.2	70-130	4.03	20	
Endosulfan sulfate	1.16	0.40	0.045	ug/L	1.25		92.4	70-130	5.33	20	
Endrin	1.19	0.40	0.042	ug/L	1.25		95.2	70-130	6.51	20	
Endrin aldehyde	1.18	0.40	0.051	ug/L	1.25		94.4	70-130	3.01	20	
Endrin ketone	1.14	0.40	0.042	ug/L	1.25		91.6	70-130	4.01	20	
gamma-BHC (Lindane)	1.18	0.40	0.047	ug/L	1.25		94.0	70-130	6.59	20	
gamma-Chlordane	1.12	0.40	0.037	ug/L	1.25		90.0	70-130	5.48	20	
Heptachlor	1.14	0.40	0.039	ug/L	1.25		91.6	70-130	7.24	20	
Heptachlor epoxide	1.16	0.40	0.041	ug/L	1.25		92.8	70-130	6.22	20	
Methoxychlor	1.22	0.40	0.045	ug/L	1.25		97.2	70-130	5.50	20	
Surrogate: Decachlorobiphenyl	0.920			ug/L	1.00		92.0	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.915			ug/L	1.00		91.5	71.7-111			

Matrix Spike (B9F1507-MS1)

Source: 0902812-04

Prepared: 06/15/09 Analyzed: 06/17/09

4,4'-DDD	1.13	0.37	0.034	ug/L	1.16	<0.37	98.0	70-130			
4,4'-DDE	1.15	0.37	0.034	ug/L	1.16	<0.37	99.6	70-130			
4,4'-DDT	1.21	0.37	0.039	ug/L	1.16	<0.37	105	70-130			
a-Chlordane	1.15	0.37	0.035	ug/L	1.16	<0.37	99.6	70-130			
Aldrin	1.15	0.37	0.036	ug/L	1.16	<0.37	99.6	70-130			
alpha-BHC	1.13	0.37	0.042	ug/L	1.16	<0.37	98.0	70-130			
beta-BHC	1.06	0.37	0.049	ug/L	1.16	<0.37	92.0	70-130			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1507 - EPA 3510C (Sep Funnel)											
Matrix Spike (B9F1507-MS1)		Source: 0902812-04				Prepared: 06/15/09		Analyzed: 06/17/09			
delta-BHC	1.13	0.37	0.043	ug/L	1.16	<0.37	98.0	70-130			
Dieldrin	1.14	0.37	0.034	ug/L	1.16	<0.37	98.8	70-130			
Endosulfan I	1.15	0.37	0.037	ug/L	1.16	<0.37	99.2	70-130			
Endosulfan II	1.13	0.37	0.038	ug/L	1.16	<0.37	97.6	70-130			
Endosulfan sulfate	1.13	0.37	0.042	ug/L	1.16	<0.37	98.0	70-130			
Endrin	1.19	0.37	0.039	ug/L	1.16	<0.37	102	70-130			
Endrin aldehyde	1.13	0.37	0.047	ug/L	1.16	<0.37	98.0	70-130			
Endrin ketone	1.12	0.37	0.039	ug/L	1.16	<0.37	96.4	70-130			
gamma-BHC (Lindane)	1.13	0.37	0.044	ug/L	1.16	<0.37	98.0	70-130			
gamma-Chlordane	1.12	0.37	0.034	ug/L	1.16	<0.37	97.2	70-130			
Heptachlor	1.16	0.37	0.036	ug/L	1.16	<0.37	100	70-130			
Heptachlor epoxide	1.15	0.37	0.038	ug/L	1.16	<0.37	99.6	70-130			
Methoxychlor	1.20	0.37	0.042	ug/L	1.16	<0.37	104	70-130			
Surrogate: Decachlorobiphenyl	0.894			ug/L	0.926		96.5	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.921			ug/L	0.926		99.5	71.7-111			

Batch B9F1515 - EPA 3545 ASE Extraction

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Blank (B9F1515-BLK1)											
						Prepared: 06/15/09		Analyzed: 06/16/09			
4,4'-DDD	< 0.040	0.040	0.0012	mg/kg wet							
4,4'-DDE	< 0.040	0.040	0.0013	mg/kg wet							
4,4'-DDT	< 0.040	0.040	0.0015	mg/kg wet							
a-Chlordane	< 0.040	0.040	0.0014	mg/kg wet							
Aldrin	< 0.040	0.040	0.0012	mg/kg wet							
alpha-BHC	< 0.040	0.040	0.0015	mg/kg wet							
beta-BHC	< 0.040	0.040	0.0016	mg/kg wet							
delta-BHC	< 0.040	0.040	0.0017	mg/kg wet							
Dieldrin	< 0.040	0.040	0.0014	mg/kg wet							
Endosulfan I	< 0.040	0.040	0.0015	mg/kg wet							
Endosulfan II	< 0.040	0.040	0.0015	mg/kg wet							
Endosulfan sulfate	< 0.040	0.040	0.0015	mg/kg wet							
Endrin	< 0.040	0.040	0.0014	mg/kg wet							
Endrin aldehyde	< 0.040	0.040	0.0015	mg/kg wet							
Endrin ketone	< 0.040	0.040	0.0014	mg/kg wet							
gamma-BHC (Lindane)	< 0.040	0.040	0.0014	mg/kg wet							
gamma-Chlordane	< 0.040	0.040	0.0014	mg/kg wet							
Heptachlor	< 0.040	0.040	0.0015	mg/kg wet							
Heptachlor epoxide	< 0.040	0.040	0.0015	mg/kg wet							
Methoxychlor	< 0.040	0.040	0.0015	mg/kg wet							
Toxaphene	< 0.080	0.080	0.0061	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0627			mg/kg wet	0.0667		94.0	83.7-130			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1515 - EPA 3545 ASE Extraction

Blank (B9F1515-BLK1)

Prepared: 06/15/09 Analyzed: 06/16/09

<i>Surrogate: Tetrachloro-meta-xylene</i>	0.0617			mg/kg wet	0.0667		92.5	65.2-135			
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LCS (B9F1515-BS1)

Prepared: 06/15/09 Analyzed: 06/16/09

4,4'-DDD	0.0763	0.040	0.0012	mg/kg wet	0.0833		91.6	70-130			
4,4'-DDE	0.0790	0.040	0.0013	mg/kg wet	0.0833		94.8	70-130			
4,4'-DDT	0.0840	0.040	0.0015	mg/kg wet	0.0833		101	70-130			
a-Chlordane	0.0777	0.040	0.0014	mg/kg wet	0.0833		93.2	70-130			
Aldrin	0.0777	0.040	0.0012	mg/kg wet	0.0833		93.2	70-130			
alpha-BHC	0.0790	0.040	0.0015	mg/kg wet	0.0833		94.8	70-130			
beta-BHC	0.0760	0.040	0.0016	mg/kg wet	0.0833		91.2	70-130			
delta-BHC	0.0803	0.040	0.0017	mg/kg wet	0.0833		96.4	70-130			
Dieldrin	0.0773	0.040	0.0014	mg/kg wet	0.0833		92.8	70-130			
Endosulfan I	0.0777	0.040	0.0015	mg/kg wet	0.0833		93.2	70-130			
Endosulfan II	0.0773	0.040	0.0015	mg/kg wet	0.0833		92.8	70-130			
Endosulfan sulfate	0.0777	0.040	0.0015	mg/kg wet	0.0833		93.2	70-130			
Endrin	0.0803	0.040	0.0014	mg/kg wet	0.0833		96.4	70-130			
Endrin aldehyde	0.0687	0.040	0.0015	mg/kg wet	0.0833		82.4	70-130			
Endrin ketone	0.0770	0.040	0.0014	mg/kg wet	0.0833		92.4	70-130			
gamma-BHC (Lindane)	0.0790	0.040	0.0014	mg/kg wet	0.0833		94.8	70-130			
gamma-Chlordane	0.0760	0.040	0.0014	mg/kg wet	0.0833		91.2	70-130			
Heptachlor	0.0780	0.040	0.0015	mg/kg wet	0.0833		93.6	70-130			
Heptachlor epoxide	0.0777	0.040	0.0015	mg/kg wet	0.0833		93.2	70-130			
Methoxychlor	0.0837	0.040	0.0015	mg/kg wet	0.0833		100	70-130			
<i>Surrogate: Decachlorobiphenyl</i>	0.0640			mg/kg wet	0.0667		96.0	83.7-130			
<i>Surrogate: Tetrachloro-meta-xylene</i>	0.0627			mg/kg wet	0.0667		94.0	65.2-135			

Matrix Spike (B9F1515-MS1)

Source: 0902757-05

Prepared: 06/15/09 Analyzed: 06/17/09

4,4'-DDD	0.0999	0.050	0.0015	mg/kg dry	0.104	<0.050	96.0	70-130			
4,4'-DDE	0.110	0.050	0.0016	mg/kg dry	0.104	<0.050	99.2	70-130			
4,4'-DDT	0.123	0.050	0.0019	mg/kg dry	0.104	<0.050	98.8	70-130			
a-Chlordane	0.101	0.050	0.0018	mg/kg dry	0.104	<0.050	97.2	70-130			
Aldrin	0.0999	0.050	0.0015	mg/kg dry	0.104	<0.050	96.0	70-130			
alpha-BHC	0.100	0.050	0.0019	mg/kg dry	0.104	<0.050	96.4	70-130			
beta-BHC	0.0991	0.050	0.0020	mg/kg dry	0.104	<0.050	95.2	70-130			
delta-BHC	0.105	0.050	0.0021	mg/kg dry	0.104	<0.050	101	70-130			
Dieldrin	0.102	0.050	0.0018	mg/kg dry	0.104	<0.050	98.4	70-130			
Endosulfan I	0.101	0.050	0.0019	mg/kg dry	0.104	<0.050	96.8	70-130			
Endosulfan II	0.0999	0.050	0.0019	mg/kg dry	0.104	<0.050	96.0	70-130			
Endosulfan sulfate	0.101	0.050	0.0019	mg/kg dry	0.104	<0.050	97.2	70-130			
Endrin	0.104	0.050	0.0018	mg/kg dry	0.104	<0.050	100	70-130			
Endrin aldehyde	0.0870	0.050	0.0019	mg/kg dry	0.104	<0.050	83.6	70-130			

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902817
 Date Reported: 08/12/09

PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1515 - EPA 3545 ASE Extraction

Matrix Spike (B9F1515-MS1)

Source: 0902757-05

Prepared: 06/15/09 Analyzed: 06/17/09

Endrin ketone	0.100	0.050	0.0018	mg/kg dry	0.104	<0.050	96.4	70-130			
gamma-BHC (Lindane)	0.102	0.050	0.0018	mg/kg dry	0.104	<0.050	97.6	70-130			
gamma-Chlordane	0.0991	0.050	0.0018	mg/kg dry	0.104	<0.050	95.2	70-130			
Heptachlor	0.0991	0.050	0.0019	mg/kg dry	0.104	<0.050	95.2	70-130			
Heptachlor epoxide	0.101	0.050	0.0019	mg/kg dry	0.104	<0.050	96.8	70-130			
Methoxychlor	0.114	0.050	0.0019	mg/kg dry	0.104	<0.050	110	70-130			
Surrogate: Decachlorobiphenyl	0.0799			mg/kg dry	0.0833		96.0	83.7-130			
Surrogate: Tetrachloro-meta-xylene	0.0770			mg/kg dry	0.0833		92.5	65.2-135			

Matrix Spike Dup (B9F1515-MSD1)

Source: 0902757-05

Prepared: 06/15/09 Analyzed: 06/17/09

4,4'-DDD	0.0942	0.050	0.0015	mg/kg dry	0.104	<0.050	90.4	70-130	5.88	17.3	
4,4'-DDE	0.105	0.050	0.0016	mg/kg dry	0.104	<0.050	94.8	70-130	4.12	18.9	
4,4'-DDT	0.118	0.050	0.0019	mg/kg dry	0.104	<0.050	93.3	70-130	4.71	37.6	
a-Chlordane	0.0959	0.050	0.0018	mg/kg dry	0.104	<0.050	92.0	70-130	5.36	17.2	
Aldrin	0.0946	0.050	0.0015	mg/kg dry	0.104	<0.050	90.8	70-130	5.43	26.6	
alpha-BHC	0.0951	0.050	0.0019	mg/kg dry	0.104	<0.050	91.2	70-130	5.41	27.3	
beta-BHC	0.0942	0.050	0.0020	mg/kg dry	0.104	<0.050	90.4	70-130	5.04	24.7	
delta-BHC	0.100	0.050	0.0021	mg/kg dry	0.104	<0.050	96.0	70-130	5.14	25.9	
Dieldrin	0.0984	0.050	0.0018	mg/kg dry	0.104	<0.050	94.4	70-130	4.02	24.6	
Endosulfan I	0.0955	0.050	0.0019	mg/kg dry	0.104	<0.050	91.6	70-130	5.39	18.2	
Endosulfan II	0.0951	0.050	0.0019	mg/kg dry	0.104	<0.050	91.2	70-130	4.99	16.6	
Endosulfan sulfate	0.0980	0.050	0.0019	mg/kg dry	0.104	<0.050	94.0	70-130	3.21	16.5	
Endrin	0.0992	0.050	0.0018	mg/kg dry	0.104	<0.050	95.2	70-130	4.78	18.9	
Endrin aldehyde	0.0830	0.050	0.0019	mg/kg dry	0.104	<0.050	79.6	70-130	4.77	17.9	
Endrin ketone	0.0955	0.050	0.0018	mg/kg dry	0.104	<0.050	91.6	70-130	4.97	15.7	
gamma-BHC (Lindane)	0.0963	0.050	0.0018	mg/kg dry	0.104	<0.050	92.4	70-130	5.34	27	
gamma-Chlordane	0.0942	0.050	0.0018	mg/kg dry	0.104	<0.050	90.4	70-130	5.04	20	
Heptachlor	0.0946	0.050	0.0019	mg/kg dry	0.104	<0.050	90.8	70-130	4.60	20.3	
Heptachlor epoxide	0.0959	0.050	0.0019	mg/kg dry	0.104	<0.050	92.0	70-130	4.95	26.2	
Methoxychlor	0.108	0.050	0.0019	mg/kg dry	0.104	<0.050	104	70-130	5.11	20.2	
Surrogate: Decachlorobiphenyl	0.0759			mg/kg dry	0.0834		91.0	83.7-130			
Surrogate: Tetrachloro-meta-xylene	0.0738			mg/kg dry	0.0834		88.5	65.2-135			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppl	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1702 - EPA 3510C (Sep Funnel)

Blank (B9F1702-BLK1)

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	< 0.19	10	0.19	ug/L							
1,2-Dichlorobenzene	< 0.23	10	0.23	ug/L							
1,2-Diphenylhydrazine as Azobenzene	< 0.24	10	0.24	ug/L							
1,3-Dichlorobenzene	< 0.21	10	0.21	ug/L							
1,4-Dichlorobenzene	< 0.22	10	0.22	ug/L							
2,3,4,6-Tetrachlorophenol	< 0.61	10	0.61	ug/L							
2,4,5-Trichlorophenol	< 0.80	10	0.80	ug/L							
2,4,6-Trichlorophenol	< 0.48	10	0.48	ug/L							
2,4-Dichlorophenol	< 0.47	10	0.47	ug/L							
2,4-Dimethylphenol	< 1.6	10	1.6	ug/L							
2,4-Dinitrophenol	< 1.0	10	1.0	ug/L							
2,4-Dinitrotoluene	< 0.33	10	0.33	ug/L							
2,6-Dichlorophenol	< 0.48	10	0.48	ug/L							
2,6-Dinitrotoluene	< 0.36	10	0.36	ug/L							
2-Chloronaphthalene	< 0.28	10	0.28	ug/L							
2-Chlorophenol	< 0.45	10	0.45	ug/L							
2-Methylnaphthalene	< 0.66	10	0.66	ug/L							
2-Methylphenol	< 0.63	10	0.63	ug/L							
2-Nitroaniline	< 0.72	10	0.72	ug/L							
2-Nitrophenol	< 0.90	10	0.90	ug/L							
3,3'-Dichlorobenzidine	< 7.3	25	7.3	ug/L							
3-Nitroaniline	< 1.2	10	1.2	ug/L							
4,6-Dinitro-2-methylphenol	< 0.65	10	0.65	ug/L							
4-Bromophenyl phenyl ether	< 0.17	10	0.17	ug/L							
4-Chloro-3-methylphenol	< 0.55	10	0.55	ug/L							
4-Chloroaniline	< 2.3	10	2.3	ug/L							
4-Chlorophenyl phenyl ether	< 0.25	10	0.25	ug/L							
4-Methylphenol	< 0.79	10	0.79	ug/L							
4-Nitroaniline	< 0.59	10	0.59	ug/L							
4-Nitrophenol	< 1.2	10	1.2	ug/L							
Acenaphthene	< 0.36	10	0.36	ug/L							
Acenaphthylene	< 0.25	10	0.25	ug/L							
Aniline	< 2.2	10	2.2	ug/L							
Anthracene	< 0.37	10	0.37	ug/L							
Benzidine	< 18	100	18	ug/L							
Benzo (a) anthracene	< 0.37	10	0.37	ug/L							
Benzo (a) pyrene	< 0.29	10	0.29	ug/L							
Benzo (b) fluoranthene	< 0.22	10	0.22	ug/L							
Benzo (g,h,i) perylene	< 0.26	10	0.26	ug/L							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1702 - EPA 3510C (Sep Funnel)

Blank (B9F1702-BLK1)

Prepared: 06/17/09 Analyzed: 06/18/09

Benzo (k) fluoranthene	< 0.31	10	0.31	ug/L							
Benzoic acid	< 1.2	10	1.2	ug/L							
Benzyl alcohol	< 0.54	10	0.54	ug/L							
Bis(2-chloroethoxy)methane	< 0.18	10	0.18	ug/L							
Bis(2-chloroethyl)ether	< 0.17	10	0.17	ug/L							
Bis(2-chloroisopropyl)ether	< 0.19	10	0.19	ug/L							
Bis(2-ethylhexyl)phthalate	< 0.43	10	0.43	ug/L							
Butyl benzyl phthalate	< 0.37	10	0.37	ug/L							
Carbazole	< 0.26	10	0.26	ug/L							
Chrysene	< 0.27	10	0.27	ug/L							
Dibenz (a,h) anthracene	< 0.23	10	0.23	ug/L							
Dibenzofuran	< 0.39	10	0.39	ug/L							
Diethyl phthalate	< 0.23	10	0.23	ug/L							
Dimethyl phthalate	< 0.24	10	0.24	ug/L							
Di-n-butyl phthalate	< 0.28	10	0.28	ug/L							
Di-n-octyl phthalate	< 0.38	10	0.38	ug/L							
Fluoranthene	< 0.39	10	0.39	ug/L							
Fluorene	< 0.40	10	0.40	ug/L							
Hexachlorobenzene	< 0.20	10	0.20	ug/L							
Hexachlorobutadiene	< 0.26	10	0.26	ug/L							
Hexachlorocyclopentadiene	< 0.31	10	0.31	ug/L							
Hexachloroethane	< 0.31	10	0.31	ug/L							
Indeno (1,2,3-cd) pyrene	< 0.31	10	0.31	ug/L							
Isophorone	< 0.23	10	0.23	ug/L							
Naphthalene	< 0.37	10	0.37	ug/L							
Nitrobenzene	< 0.39	10	0.39	ug/L							
N-Nitrosodimethylamine	< 0.95	10	0.95	ug/L							
N-Nitrosodi-n-propylamine	< 0.21	10	0.21	ug/L							
N-Nitrosodiphenylamine	< 0.23	10	0.23	ug/L							
Pentachlorophenol	< 0.59	10	0.59	ug/L							
Phenanthrene	< 0.39	10	0.39	ug/L							
Phenol	< 0.57	10	0.57	ug/L							
Pyrene	< 0.47	10	0.47	ug/L							
Surrogate: 2,4,6-Tribromophenol	77.8			ug/L	100		77.8	48.5-114			
Surrogate: 2-Fluorobiphenyl	75.6			ug/L	100		75.6	41.7-98.4			
Surrogate: 2-Fluorophenol	55.9			ug/L	100		55.9	30-93.5			
Surrogate: Nitrobenzene-d5	75.2			ug/L	100		75.2	47.4-97.8			
Surrogate: Phenol-d6	47.2			ug/L	100		47.2	30-91.5			
Surrogate: Terphenyl-d14	87.7			ug/L	100		87.7	30-108			

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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1702 - EPA 3510C (Sep Funnel)

LCS (B9F1702-BS1)

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	61.8	10	0.19	ug/L	100		61.8	48.2-88.3			
1,4-Dichlorobenzene	53.4	10	0.22	ug/L	100		53.4	42.8-82.2			
2,4-Dinitrotoluene	76.7	10	0.33	ug/L	100		76.7	64.6-98.9			
2-Chlorophenol	70.2	10	0.45	ug/L	100		70.2	56.5-88.1			
4-Chloro-3-methylphenol	78.4	10	0.55	ug/L	100		78.4	63.4-95.2			
4-Nitrophenol	56.6	10	1.2	ug/L	100		56.6	51.3-90.6			
Anthracene	89.9	10	0.37	ug/L	100		89.9	66.7-92.8			
Benzo (a) anthracene	83.1	10	0.37	ug/L	100		83.1	72.7-97.2			
Benzo (a) pyrene	80.3	10	0.29	ug/L	100		80.3	66.4-101			
Chrysene	81.3	10	0.27	ug/L	100		81.3	71.5-98.1			
Fluoranthene	89.7	10	0.39	ug/L	100		89.7	68.8-94			
Fluorene	87.1	10	0.40	ug/L	100		87.1	64.2-94.4			
N-Nitrosodi-n-propylamine	76.3	10	0.21	ug/L	100		76.3	63.6-92.8			
Pentachlorophenol	72.9	10	0.59	ug/L	100		72.9	60.2-101			
Phenanthrene	86.1	10	0.39	ug/L	100		86.1	68.1-94.8			
Phenol	45.4	10	0.57	ug/L	100		45.4	39.6-71			
Surrogate: 2,4,6-Tribromophenol	77.0			ug/L	100		77.0	48.5-114			
Surrogate: 2-Fluorobiphenyl	72.7			ug/L	100		72.7	41.7-98.4			
Surrogate: 2-Fluorophenol	58.2			ug/L	100		58.2	30-93.5			
Surrogate: Nitrobenzene-d5	71.4			ug/L	100		71.4	47.4-97.8			
Surrogate: Phenol-d6	50.7			ug/L	100		50.7	30-91.5			
Surrogate: Terphenyl-d14	72.0			ug/L	100		72.0	30-108			

Matrix Spike (B9F1702-MS1)

Source: 0902812-03

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	50.3	9.3	0.18	ug/L	92.6	<9.3	54.4	43.8-87.4			
1,4-Dichlorobenzene	47.7	9.3	0.20	ug/L	92.6	<9.3	51.5	43.7-78.7			
2,4-Dinitrotoluene	61.6	9.3	0.31	ug/L	92.6	<9.3	66.5	52.8-100			
2-Chlorophenol	33.7	9.3	0.42	ug/L	92.6	<9.3	36.4	30.1-95			
4-Chloro-3-methylphenol	40.4	9.3	0.51	ug/L	92.6	<9.3	43.6	44.8-98.7			M2
4-Nitrophenol	27.9	9.3	1.1	ug/L	92.6	<9.3	30.1	32.5-99.6			M2
Anthracene	57.3	9.3	0.34	ug/L	92.6	<9.3	61.9	44.8-97.6			
Benzo (a) anthracene	50.8	9.3	0.34	ug/L	92.6	<9.3	54.8	30-115			
Benzo (a) pyrene	46.7	9.3	0.27	ug/L	92.6	<9.3	50.4	30-110			
Chrysene	48.2	9.3	0.25	ug/L	92.6	<9.3	52.1	30-115			
Fluoranthene	58.3	9.3	0.36	ug/L	92.6	<9.3	63.0	37.4-103			
Fluorene	59.0	9.3	0.37	ug/L	92.6	<9.3	63.8	49.6-92.1			
N-Nitrosodi-n-propylamine	61.9	9.3	0.19	ug/L	92.6	<9.3	66.8	44.9-100			
Pentachlorophenol	43.2	9.3	0.55	ug/L	92.6	<9.3	46.6	31.2-123			
Phenanthrene	57.5	9.3	0.36	ug/L	92.6	<9.3	62.1	47-99.1			
Phenol	20.1	9.3	0.53	ug/L	92.6	<9.3	21.7	30-79.5			M2

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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1702 - EPA 3510C (Sep Funnel)

Matrix Spike (B9F1702-MS1)

Source: 0902812-03

Prepared: 06/17/09 Analyzed: 06/18/09

Surrogate: 2,4,6-Tribromophenol	39.2			ug/L	92.6		42.4	48.5-114			S-02
Surrogate: 2-Fluorobiphenyl	47.5			ug/L	92.6		51.3	41.7-98.4			
Surrogate: 2-Fluorophenol	25.3			ug/L	92.6		27.3	30-93.5			S-02
Surrogate: Nitrobenzene-d5	59.7			ug/L	92.6		64.5	47.4-97.8			
Surrogate: Phenol-d6	21.9			ug/L	92.6		23.7	30-91.5			S-02
Surrogate: Terphenyl-d14	39.1			ug/L	92.6		42.2	30-108			

Matrix Spike Dup (B9F1702-MSD1)

Source: 0902812-03

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	55.8	9.3	0.18	ug/L	92.6	<9.3	60.3	43.8-87.4	10.4	28.2	
1,4-Dichlorobenzene	52.3	9.3	0.20	ug/L	92.6	<9.3	56.5	43.7-78.7	9.34	25	
2,4-Dinitrotoluene	63.6	9.3	0.31	ug/L	92.6	<9.3	68.7	52.8-100	3.28	15	
2-Chlorophenol	31.9	9.3	0.42	ug/L	92.6	<9.3	34.5	30.1-95	5.46	27.5	
4-Chloro-3-methylphenol	36.5	9.3	0.51	ug/L	92.6	<9.3	39.4	44.8-98.7	10.1	27.6	M2
4-Nitrophenol	26.8	9.3	1.1	ug/L	92.6	<9.3	28.9	32.5-99.6	3.99	35	M2
Anthracene	57.2	9.3	0.34	ug/L	92.6	<9.3	61.8	44.8-97.6	0.154	21	
Benzo (a) anthracene	49.1	9.3	0.34	ug/L	92.6	<9.3	53.0	30-115	3.36	33.7	
Benzo (a) pyrene	43.9	9.3	0.27	ug/L	92.6	<9.3	47.5	30-110	6.00	33.8	
Chrysene	46.3	9.3	0.25	ug/L	92.6	<9.3	50.0	30-115	4.05	35.1	
Fluoranthene	58.7	9.3	0.36	ug/L	92.6	<9.3	63.4	37.4-103	0.555	29.1	
Fluorene	61.4	9.3	0.37	ug/L	92.6	<9.3	66.4	49.6-92.1	4.00	19.7	
N-Nitrosodi-n-propylamine	64.2	9.3	0.19	ug/L	92.6	<9.3	69.4	44.9-100	3.71	18.6	
Pentachlorophenol	34.8	9.3	0.55	ug/L	92.6	<9.3	37.6	31.2-123	21.4	32.2	
Phenanthrene	59.0	9.3	0.36	ug/L	92.6	<9.3	63.7	47-99.1	2.59	18.4	
Phenol	21.0	9.3	0.53	ug/L	92.6	<9.3	22.7	30-79.5	4.50	33.6	M2
Surrogate: 2,4,6-Tribromophenol	35.3			ug/L	92.6		38.1	48.5-114			S-02
Surrogate: 2-Fluorobiphenyl	54.2			ug/L	92.6		58.5	41.7-98.4			
Surrogate: 2-Fluorophenol	26.3			ug/L	92.6		28.4	30-93.5			S-02
Surrogate: Nitrobenzene-d5	62.8			ug/L	92.6		67.8	47.4-97.8			
Surrogate: Phenol-d6	23.6			ug/L	92.6		25.5	30-91.5			S-02
Surrogate: Terphenyl-d14	38.4			ug/L	92.6		41.5	30-108			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppl	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1801 - EPA 3545 ASE Extraction

Blank (B9F1801-BLK1)

Prepared: 06/18/09 Analyzed: 06/19/09

1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3'-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1801 - EPA 3545 ASE Extraction

Blank (B9F1801-BLK1)

Prepared: 06/18/09 Analyzed: 06/19/09

Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	3.93			mg/kg wet	6.67		58.9	47.2-108			
Surrogate: 2-Fluorobiphenyl	3.92			mg/kg wet	6.67		58.8	53.2-85.1			
Surrogate: 2-Fluorophenol	3.71			mg/kg wet	6.67		55.7	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.07			mg/kg wet	6.67		61.0	49.1-86.9			
Surrogate: Phenol-d6	3.77			mg/kg wet	6.67		56.5	47.6-99.6			
Surrogate: Terphenyl-d14	3.98			mg/kg wet	6.67		59.7	43.6-112			

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902817
 Date Reported: 08/12/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1801 - EPA 3545 ASE Extraction

LCS (B9F1801-BS1)

Prepared: 06/18/09 Analyzed: 06/19/09

1,2,4-Trichlorobenzene	4.52	0.33	0.027	mg/kg wet	6.67		67.8	50.7-82.1			
1,4-Dichlorobenzene	4.01	0.33	0.024	mg/kg wet	6.67		60.2	44-77			
2,4-Dinitrotoluene	4.81	0.33	0.021	mg/kg wet	6.67		72.1	56.7-81.7			
2-Chlorophenol	4.62	0.67	0.038	mg/kg wet	6.67		69.3	52.3-88.2			
4-Chloro-3-methylphenol	4.86	0.67	0.040	mg/kg wet	6.67		72.9	53.4-87			
4-Nitrophenol	5.34	0.67	0.099	mg/kg wet	6.67		80.2	55.7-87.1			
Anthracene	5.38	0.33	0.025	mg/kg wet	6.67		80.6	65.3-92			
Benzo (a) anthracene	5.50	0.33	0.027	mg/kg wet	6.67		82.4	69-95.3			
Benzo (a) pyrene	5.44	0.33	0.027	mg/kg wet	6.67		81.7	68.5-98.2			
Chrysene	5.45	0.33	0.033	mg/kg wet	6.67		81.8	68.6-94.2			
Fluoranthene	5.50	0.33	0.024	mg/kg wet	6.67		82.4	64.3-94.6			
Fluorene	5.16	0.33	0.018	mg/kg wet	6.67		77.4	61.9-89.4			
N-Nitrosodi-n-propylamine	4.98	0.33	0.025	mg/kg wet	6.67		74.7	55.5-91.1			
Pentachlorophenol	4.90	0.67	0.096	mg/kg wet	6.67		73.5	54.7-74.6			
Phenanthrene	5.31	0.33	0.019	mg/kg wet	6.67		79.6	64.3-90.9			
Phenol	4.60	0.67	0.057	mg/kg wet	6.67		68.9	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	4.96			mg/kg wet	6.67		74.3	47.2-108			
Surrogate: 2-Fluorobiphenyl	4.64			mg/kg wet	6.67		69.6	53.2-85.1			
Surrogate: 2-Fluorophenol	4.56			mg/kg wet	6.67		68.4	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.74			mg/kg wet	6.67		71.1	49.1-86.9			
Surrogate: Phenol-d6	4.94			mg/kg wet	6.67		74.2	47.6-99.6			
Surrogate: Terphenyl-d14	4.77			mg/kg wet	6.67		71.5	43.6-112			

Matrix Spike (B9F1801-MS1)

Source: 0902817-18

Prepared: 06/18/09 Analyzed: 06/19/09

1,2,4-Trichlorobenzene	4.33	0.42	0.034	mg/kg dry	8.44	<0.42	51.3	51-77.5			
1,4-Dichlorobenzene	4.01	0.42	0.030	mg/kg dry	8.44	<0.42	47.5	41.7-73.4			
2,4-Dinitrotoluene	4.20	0.42	0.027	mg/kg dry	8.44	<0.42	49.8	50-84.8			M2
2-Chlorophenol	4.25	0.85	0.048	mg/kg dry	8.44	<0.85	50.4	47.8-90.8			
4-Chloro-3-methylphenol	4.33	0.85	0.051	mg/kg dry	8.44	<0.85	51.3	48.4-95.1			
4-Nitrophenol	5.30	0.85	0.13	mg/kg dry	8.44	<0.85	62.8	44-105			
Anthracene	4.79	0.42	0.032	mg/kg dry	8.44	<0.42	56.7	60.2-97.3			M2
Benzo (a) anthracene	4.69	0.42	0.034	mg/kg dry	8.44	<0.42	55.5	59.8-102			M2
Benzo (a) pyrene	4.53	0.42	0.034	mg/kg dry	8.44	<0.42	53.6	57.2-105			M2
Chrysene	4.64	0.42	0.042	mg/kg dry	8.44	<0.42	55.0	59.2-102			M2
Fluoranthene	4.81	0.42	0.030	mg/kg dry	8.44	<0.42	57.0	50.4-108			
Fluorene	4.83	0.42	0.023	mg/kg dry	8.44	<0.42	57.2	57.8-94.4			M2
N-Nitrosodi-n-propylamine	4.75	0.42	0.032	mg/kg dry	8.44	<0.42	56.3	46.2-96.2			
Pentachlorophenol	4.48	0.85	0.12	mg/kg dry	8.44	<0.85	53.0	53.6-80.4			M2
Phenanthrene	4.77	0.42	0.024	mg/kg dry	8.44	<0.42	56.5	58.4-97.5			M2
Phenol	4.29	0.85	0.072	mg/kg dry	8.44	<0.85	50.8	44-88.5			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1801 - EPA 3545 ASE Extraction

Matrix Spike (B9F1801-MS1)

Source: 0902817-18

Prepared: 06/18/09

Analyzed: 06/19/09

Surrogate: 2,4,6-Tribromophenol	4.07			mg/kg dry	8.44		48.2	47.2-108			
Surrogate: 2-Fluorobiphenyl	4.37			mg/kg dry	8.44		51.8	53.2-85.1			S-02
Surrogate: 2-Fluorophenol	4.09			mg/kg dry	8.44		48.4	48.5-90.1			S-02
Surrogate: Nitrobenzene-d5	4.71			mg/kg dry	8.44		55.8	49.1-86.9			
Surrogate: Phenol-d6	4.51			mg/kg dry	8.44		53.4	47.6-99.6			
Surrogate: Terphenyl-d14	4.08			mg/kg dry	8.44		48.3	43.6-112			

Matrix Spike Dup (B9F1801-MSD1)

Source: 0902817-18

Prepared: 06/18/09

Analyzed: 06/19/09

1,2,4-Trichlorobenzene	5.36	0.42	0.034	mg/kg dry	8.44	<0.42	63.5	51-77.5	21.2	15.7	R5
1,4-Dichlorobenzene	4.88	0.42	0.030	mg/kg dry	8.44	<0.42	57.8	41.7-73.4	19.6	14.7	R5
2,4-Dinitrotoluene	5.55	0.42	0.027	mg/kg dry	8.44	<0.42	65.8	50-84.8	27.7	20.5	R2
2-Chlorophenol	5.29	0.85	0.048	mg/kg dry	8.44	<0.85	62.7	47.8-90.8	21.7	19.8	R5
4-Chloro-3-methylphenol	5.66	0.85	0.051	mg/kg dry	8.44	<0.85	67.1	48.4-95.1	26.7	18.7	R5
4-Nitrophenol	7.08	0.85	0.13	mg/kg dry	8.44	<0.85	83.9	44-105	28.8	30.9	
Anthracene	6.26	0.42	0.032	mg/kg dry	8.44	<0.42	74.1	60.2-97.3	26.7	15.1	R2
Benzo (a) anthracene	6.28	0.42	0.034	mg/kg dry	8.44	<0.42	74.3	59.8-102	29.0	19.6	R2
Benzo (a) pyrene	6.00	0.42	0.034	mg/kg dry	8.44	<0.42	71.1	57.2-105	28.0	19.4	R2
Chrysene	6.34	0.42	0.042	mg/kg dry	8.44	<0.42	75.1	59.2-102	31.0	19.6	R2
Fluoranthene	6.26	0.42	0.030	mg/kg dry	8.44	<0.42	74.1	50.4-108	26.2	21	R5
Fluorene	6.10	0.42	0.023	mg/kg dry	8.44	<0.42	72.3	57.8-94.4	23.3	15.8	R2
N-Nitrosodi-n-propylamine	6.07	0.42	0.032	mg/kg dry	8.44	<0.42	71.9	46.2-96.2	24.4	17.1	R5
Pentachlorophenol	6.17	0.85	0.12	mg/kg dry	8.44	<0.85	73.1	53.6-80.4	31.8	22.4	R2
Phenanthrene	6.18	0.42	0.024	mg/kg dry	8.44	<0.42	73.2	58.4-97.5	25.7	14.3	R2
Phenol	5.43	0.85	0.072	mg/kg dry	8.44	<0.85	64.3	44-88.5	23.6	21.5	R5
Surrogate: 2,4,6-Tribromophenol	5.47			mg/kg dry	8.44		64.8	47.2-108			
Surrogate: 2-Fluorobiphenyl	5.67			mg/kg dry	8.44		67.1	53.2-85.1			
Surrogate: 2-Fluorophenol	5.12			mg/kg dry	8.44		60.7	48.5-90.1			
Surrogate: Nitrobenzene-d5	5.83			mg/kg dry	8.44		69.0	49.1-86.9			
Surrogate: Phenol-d6	5.87			mg/kg dry	8.44		69.5	47.6-99.6			
Surrogate: Terphenyl-d14	5.66			mg/kg dry	8.44		67.0	43.6-112			

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 Project Manager: Ms. Kelly Neppl

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 Date Reported: 08/12/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2308 - EPA 3545 ASE Extraction

Blank (B9F2308-BLK1)

Prepared & Analyzed: 06/23/09

1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3'-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2308 - EPA 3545 ASE Extraction

Blank (B9F2308-BLK1)

Prepared & Analyzed: 06/23/09

Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	4.78			mg/kg wet	6.67		71.7	47.2-108			
Surrogate: 2-Fluorobiphenyl	4.59			mg/kg wet	6.67		68.9	53.2-85.1			
Surrogate: 2-Fluorophenol	4.56			mg/kg wet	6.67		68.4	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.71			mg/kg wet	6.67		70.7	49.1-86.9			
Surrogate: Phenol-d6	4.68			mg/kg wet	6.67		70.2	47.6-99.6			
Surrogate: Terphenyl-d14	4.37			mg/kg wet	6.67		65.5	43.6-112			

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Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2308 - EPA 3545 ASE Extraction

LCS (B9F2308-BS1)

Prepared & Analyzed: 06/23/09

1,2,4-Trichlorobenzene	4.54	0.33	0.027	mg/kg wet	6.67		68.1	50.7-82.1			
1,4-Dichlorobenzene	4.00	0.33	0.024	mg/kg wet	6.67		60.1	44-77			
2,4-Dinitrotoluene	4.33	0.33	0.021	mg/kg wet	6.67		64.9	56.7-81.7			
2-Chlorophenol	4.47	0.67	0.038	mg/kg wet	6.67		67.0	52.3-88.2			
4-Chloro-3-methylphenol	4.48	0.67	0.040	mg/kg wet	6.67		67.3	53.4-87			
4-Nitrophenol	4.56	0.67	0.099	mg/kg wet	6.67		68.4	55.7-87.1			
Anthracene	4.86	0.33	0.025	mg/kg wet	6.67		72.9	65.3-92			
Benzo (a) anthracene	5.19	0.33	0.027	mg/kg wet	6.67		77.8	69-95.3			
Benzo (a) pyrene	5.02	0.33	0.027	mg/kg wet	6.67		75.2	68.5-98.2			
Chrysene	5.10	0.33	0.033	mg/kg wet	6.67		76.6	68.6-94.2			
Fluoranthene	5.06	0.33	0.024	mg/kg wet	6.67		76.0	64.3-94.6			
Fluorene	4.73	0.33	0.018	mg/kg wet	6.67		71.0	61.9-89.4			
N-Nitrosodi-n-propylamine	4.67	0.33	0.025	mg/kg wet	6.67		70.0	55.5-91.1			
Pentachlorophenol	4.45	0.67	0.096	mg/kg wet	6.67		66.7	54.7-74.6			
Phenanthrene	4.86	0.33	0.019	mg/kg wet	6.67		72.9	64.3-90.9			
Phenol	4.33	0.67	0.057	mg/kg wet	6.67		65.0	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	4.76			mg/kg wet	6.67		71.4	47.2-108			
Surrogate: 2-Fluorobiphenyl	4.53			mg/kg wet	6.67		67.9	53.2-85.1			
Surrogate: 2-Fluorophenol	4.59			mg/kg wet	6.67		68.9	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.67			mg/kg wet	6.67		70.0	49.1-86.9			
Surrogate: Phenol-d6	4.85			mg/kg wet	6.67		72.8	47.6-99.6			
Surrogate: Terphenyl-d14	4.55			mg/kg wet	6.67		68.2	43.6-112			

Matrix Spike (B9F2308-MS1)

Source: 0902912-02

Prepared: 06/23/09 Analyzed: 06/24/09

1,2,4-Trichlorobenzene	4.94	1.4	0.12	mg/kg dry	7.20	<1.4	68.6	51-77.5			
1,4-Dichlorobenzene	4.29	1.4	0.10	mg/kg dry	7.20	<1.4	59.6	41.7-73.4			
2,4-Dinitrotoluene	4.87	1.4	0.090	mg/kg dry	7.20	<1.4	67.6	50-84.8			
2-Chlorophenol	5.51	2.9	0.16	mg/kg dry	7.20	<2.9	76.5	47.8-90.8			
4-Chloro-3-methylphenol	5.42	2.9	0.17	mg/kg dry	7.20	<2.9	75.2	48.4-95.1			
4-Nitrophenol	5.44	2.9	0.43	mg/kg dry	7.20	<2.9	75.5	44-105			
Anthracene	5.62	1.4	0.11	mg/kg dry	7.20	<1.4	78.0	60.2-97.3			
Benzo (a) anthracene	5.36	1.4	0.12	mg/kg dry	7.20	<1.4	74.5	59.8-102			
Benzo (a) pyrene	4.97	1.4	0.12	mg/kg dry	7.20	<1.4	69.0	57.2-105			
Chrysene	5.30	1.4	0.14	mg/kg dry	7.20	<1.4	73.6	59.2-102			
Fluoranthene	5.57	1.4	0.10	mg/kg dry	7.20	<1.4	77.3	50.4-108			
Fluorene	5.62	1.4	0.077	mg/kg dry	7.20	<1.4	78.0	57.8-94.4			
N-Nitrosodi-n-propylamine	5.55	1.4	0.11	mg/kg dry	7.20	<1.4	77.0	46.2-96.2			
Pentachlorophenol	5.37	2.9	0.41	mg/kg dry	7.20	<2.9	74.5	53.6-80.4			
Phenanthrene	5.57	1.4	0.082	mg/kg dry	7.20	<1.4	77.3	58.4-97.5			
Phenol	5.57	2.9	0.25	mg/kg dry	7.20	<2.9	77.3	44-88.5			

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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2308 - EPA 3545 ASE Extraction

Matrix Spike (B9F2308-MS1)

Source: 0902912-02

Prepared: 06/23/09

Analyzed: 06/24/09

Surrogate: 2,4,6-Tribromophenol	5.46			mg/kg dry	7.20		75.8	47.2-108			
Surrogate: 2-Fluorobiphenyl	5.20			mg/kg dry	7.20		72.2	53.2-85.1			
Surrogate: 2-Fluorophenol	4.99			mg/kg dry	7.20		69.2	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.90			mg/kg dry	7.20		68.0	49.1-86.9			
Surrogate: Phenol-d6	5.57			mg/kg dry	7.20		77.4	47.6-99.6			
Surrogate: Terphenyl-d14	4.89			mg/kg dry	7.20		67.9	43.6-112			

Matrix Spike Dup (B9F2308-MSD1)

Source: 0902912-02

Prepared: 06/23/09

Analyzed: 06/24/09

1,2,4-Trichlorobenzene	4.77	1.4	0.12	mg/kg dry	7.20	<1.4	66.2	51-77.5	3.50	15.7	
1,4-Dichlorobenzene	4.16	1.4	0.10	mg/kg dry	7.20	<1.4	57.8	41.7-73.4	3.07	14.7	
2,4-Dinitrotoluene	4.77	1.4	0.090	mg/kg dry	7.20	<1.4	66.3	50-84.8	2.02	20.5	
2-Chlorophenol	5.23	2.9	0.16	mg/kg dry	7.20	<2.9	72.7	47.8-90.8	5.19	19.8	
4-Chloro-3-methylphenol	5.24	2.9	0.17	mg/kg dry	7.20	<2.9	72.8	48.4-95.1	3.39	18.7	
4-Nitrophenol	5.11	2.9	0.43	mg/kg dry	7.20	<2.9	70.9	44-105	6.34	30.9	
Anthracene	5.65	1.4	0.11	mg/kg dry	7.20	<1.4	78.5	60.2-97.3	0.507	15.1	
Benzo (a) anthracene	5.45	1.4	0.12	mg/kg dry	7.20	<1.4	75.7	59.8-102	1.63	19.6	
Benzo (a) pyrene	5.23	1.4	0.12	mg/kg dry	7.20	<1.4	72.6	57.2-105	4.99	19.4	
Chrysene	5.41	1.4	0.14	mg/kg dry	7.20	<1.4	75.2	59.2-102	2.03	19.6	
Fluoranthene	5.74	1.4	0.10	mg/kg dry	7.20	<1.4	79.7	50.4-108	2.98	21	
Fluorene	5.65	1.4	0.077	mg/kg dry	7.20	<1.4	78.5	57.8-94.4	0.568	15.8	
N-Nitrosodi-n-propylamine	5.28	1.4	0.11	mg/kg dry	7.20	<1.4	73.3	46.2-96.2	4.98	17.1	
Pentachlorophenol	5.71	2.9	0.41	mg/kg dry	7.20	<2.9	79.4	53.6-80.4	6.30	22.4	
Phenanthrene	5.59	1.4	0.082	mg/kg dry	7.20	<1.4	77.6	58.4-97.5	0.389	14.3	
Phenol	5.22	2.9	0.25	mg/kg dry	7.20	<2.9	72.6	44-88.5	6.33	21.5	
Surrogate: 2,4,6-Tribromophenol	5.60			mg/kg dry	7.20		77.8	47.2-108			
Surrogate: 2-Fluorobiphenyl	5.17			mg/kg dry	7.20		71.8	53.2-85.1			
Surrogate: 2-Fluorophenol	4.98			mg/kg dry	7.20		69.2	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.82			mg/kg dry	7.20		67.0	49.1-86.9			
Surrogate: Phenol-d6	5.39			mg/kg dry	7.20		74.9	47.6-99.6			
Surrogate: Terphenyl-d14	5.05			mg/kg dry	7.20		70.2	43.6-112			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppl	Work Order #: 0902817 Date Reported: 08/12/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1610 - Volatiles

Blank (B9F1610-BLK1)

Prepared & Analyzed: 06/16/09

1,1,1,2-Tetrachloroethane	< 0.026	0.25	0.026	mg/kg wet							
1,1,1-Trichloroethane	< 0.033	0.25	0.033	mg/kg wet							
1,1,2,2-Tetrachloroethane	< 0.025	0.25	0.025	mg/kg wet							
1,1,2-Trichloroethane	< 0.037	0.25	0.037	mg/kg wet							
1,1,2-Trichlorotrifluoroethane	< 0.065	0.25	0.065	mg/kg wet							
1,1-Dichloroethane	< 0.024	0.25	0.024	mg/kg wet							
1,1-Dichloroethene	< 0.025	0.25	0.025	mg/kg wet							
1,1-Dichloropropene	< 0.027	0.25	0.027	mg/kg wet							
1,2,3-Trichlorobenzene	< 0.066	0.50	0.066	mg/kg wet							
1,2,3-Trichloropropane	< 0.053	0.25	0.053	mg/kg wet							
1,2,4-Trichlorobenzene	< 0.064	0.50	0.064	mg/kg wet							
1,2,4-Trimethylbenzene	< 0.020	0.25	0.020	mg/kg wet							
1,2-Dibromo-3-chloropropane	< 0.057	0.50	0.057	mg/kg wet							
1,2-Dibromoethane (EDB)	< 0.038	0.25	0.038	mg/kg wet							
1,2-Dichlorobenzene	< 0.027	0.25	0.027	mg/kg wet							
1,2-Dichloroethane	< 0.025	0.25	0.025	mg/kg wet							
1,2-Dichloropropane	< 0.028	0.25	0.028	mg/kg wet							
1,3,5-Trimethylbenzene	< 0.015	0.25	0.015	mg/kg wet							
1,3-Dichlorobenzene	< 0.028	0.25	0.028	mg/kg wet							
1,3-Dichloropropane	< 0.017	0.25	0.017	mg/kg wet							
1,4-Dichlorobenzene	< 0.018	0.25	0.018	mg/kg wet							
2,2-Dichloropropane	< 0.068	0.50	0.068	mg/kg wet							
2-Butanone	< 0.12	2.0	0.12	mg/kg wet							
2-Chlorotoluene	< 0.018	0.25	0.018	mg/kg wet							
4-Chlorotoluene	< 0.029	0.25	0.029	mg/kg wet							
Acetone	< 0.32	2.0	0.32	mg/kg wet							
Allyl chloride	< 0.067	0.50	0.067	mg/kg wet							
Benzene	< 0.015	0.25	0.015	mg/kg wet							
Bromobenzene	< 0.019	0.25	0.019	mg/kg wet							
Bromochloromethane	< 0.025	0.25	0.025	mg/kg wet							
Bromodichloromethane	< 0.035	0.25	0.035	mg/kg wet							
Bromoform	< 0.080	0.50	0.080	mg/kg wet							
Bromomethane	< 0.14	0.50	0.14	mg/kg wet							
Carbon tetrachloride	< 0.027	0.25	0.027	mg/kg wet							
Chlorobenzene	< 0.025	0.25	0.025	mg/kg wet							
Chloroethane	< 0.073	0.25	0.073	mg/kg wet							
Chloroform	< 0.042	0.25	0.042	mg/kg wet							
Chloromethane	< 0.041	0.25	0.041	mg/kg wet							
cis-1,2-Dichloroethene	< 0.046	0.25	0.046	mg/kg wet							

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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1610 - Volatiles

Blank (B9F1610-BLK1)

Prepared & Analyzed: 06/16/09

cis-1,3-Dichloropropene	< 0.023	0.25	0.023	mg/kg wet							
Dibromochloromethane	< 0.032	0.25	0.032	mg/kg wet							
Dibromomethane	< 0.046	0.25	0.046	mg/kg wet							
Dichlorodifluoromethane	< 0.082	0.50	0.082	mg/kg wet							
Dichlorofluoromethane	< 0.044	0.25	0.044	mg/kg wet							
Ethyl ether	< 0.048	0.50	0.048	mg/kg wet							
Ethylbenzene	< 0.022	0.25	0.022	mg/kg wet							
Hexachlorobutadiene	< 0.13	1.0	0.13	mg/kg wet							
Isopropylbenzene	< 0.023	0.25	0.023	mg/kg wet							
m,p-Xylene	< 0.088	0.50	0.088	mg/kg wet							
Methyl isobutyl ketone	< 0.092	0.50	0.092	mg/kg wet							
Methyl tert-butyl ether	< 0.017	0.25	0.017	mg/kg wet							
Methylene chloride	< 0.17	1.0	0.17	mg/kg wet							
Naphthalene	< 0.065	0.50	0.065	mg/kg wet							
n-Butylbenzene	< 0.032	0.25	0.032	mg/kg wet							
n-Propylbenzene	< 0.014	0.25	0.014	mg/kg wet							
o-Xylene	< 0.031	0.25	0.031	mg/kg wet							
p-Isopropyltoluene	< 0.030	0.25	0.030	mg/kg wet							
sec-Butylbenzene	< 0.010	0.25	0.010	mg/kg wet							
Styrene	< 0.040	0.25	0.040	mg/kg wet							
tert-Butylbenzene	< 0.018	0.25	0.018	mg/kg wet							
Tetrachloroethene	< 0.035	0.25	0.035	mg/kg wet							
Tetrahydrofuran	< 0.10	2.0	0.10	mg/kg wet							
Toluene	< 0.028	0.25	0.028	mg/kg wet							
trans-1,2-Dichloroethene	< 0.022	0.25	0.022	mg/kg wet							
trans-1,3-Dichloropropene	< 0.035	0.25	0.035	mg/kg wet							
Trichloroethene	< 0.040	0.25	0.040	mg/kg wet							
Trichlorofluoromethane	< 0.032	0.25	0.032	mg/kg wet							
Vinyl chloride	< 0.023	0.25	0.023	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	48.9			ug/L	50.0		97.9	80-120			
Surrogate: Dibromofluoromethane	49.5			ug/L	50.0		99.0	80-120			
Surrogate: Toluene-d8	47.8			ug/L	50.0		95.7	80-120			

LCS (B9F1610-BS1)

Prepared & Analyzed: 06/16/09

1,1,2,2-Tetrachloroethane	43.1			ug/L	50.0		86.2	80-120			
1,1-Dichloroethane	51.8			ug/L	50.0		104	78.8-120			
1,1-Dichloroethene	54.8			ug/L	50.0		110	75-125			
1,3,5-Trimethylbenzene	43.2			ug/L	50.0		86.3	80-120			
1,4-Dichlorobenzene	44.9			ug/L	50.0		89.8	75-125			
2-Chlorotoluene	43.3			ug/L	50.0		86.6	80-120			

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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1610 - Volatiles

LCS (B9F1610-BS1)

Prepared & Analyzed: 06/16/09

Benzene	50.4			ug/L	50.0		101	80-120			
Bromoform	49.8			ug/L	50.0		99.6	77.1-125			
Chlorobenzene	49.9			ug/L	50.0		99.8	80-120			
Chloroform	53.1			ug/L	50.0		106	77.3-120			
Ethylbenzene	50.6			ug/L	50.0		101	80-120			
n-Butylbenzene	46.8			ug/L	50.0		93.7	70.1-125			
n-Propylbenzene	42.7			ug/L	50.0		85.5	75-120			
Toluene	49.8			ug/L	50.0		99.7	80-120			
Trichloroethene	51.4			ug/L	50.0		103	80-120			
Vinyl chloride	60.6			ug/L	50.0		121	70-130			
Surrogate: 4-Bromofluorobenzene	50.7			ug/L	50.0		101	80-120			
Surrogate: Dibromofluoromethane	47.6			ug/L	50.0		95.1	80-120			
Surrogate: Toluene-d8	47.2			ug/L	50.0		94.4	80-120			

Matrix Spike (B9F1610-MS1)

Source: 0902817-18

Prepared & Analyzed: 06/16/09

1,1,2,2-Tetrachloroethane	42.8			ug/L	50.0	<	85.6	80-120			
1,1-Dichloroethane	53.2			ug/L	50.0	<	106	77.5-120			
1,1-Dichloroethene	53.2			ug/L	50.0	<	106	76.1-125			
1,3,5-Trimethylbenzene	44.0			ug/L	50.0	<	88.0	80-120			
1,4-Dichlorobenzene	45.1			ug/L	50.0	<	90.2	75-125			
2-Chlorotoluene	44.5			ug/L	50.0	<	89.1	76.9-120			
Benzene	50.2			ug/L	50.0	<	100	80-120			
Bromoform	49.5			ug/L	50.0	<	99.0	80-125			
Chlorobenzene	49.2			ug/L	50.0	<	98.4	80-120			
Chloroform	52.3			ug/L	50.0	<	105	80-120			
Ethylbenzene	50.4			ug/L	50.0	<	101	80-120			
n-Butylbenzene	46.1			ug/L	50.0	<	92.2	74.7-125			
n-Propylbenzene	44.2			ug/L	50.0	<	88.5	75-120			
Toluene	49.8			ug/L	50.0	<	99.5	80-120			
Trichloroethene	51.2			ug/L	50.0	<	102	80-120			
Vinyl chloride	59.8			ug/L	50.0	<	120	70-125			
Surrogate: 4-Bromofluorobenzene	51.7			ug/L	50.0		103	80-120			
Surrogate: Dibromofluoromethane	48.2			ug/L	50.0		96.3	80-120			
Surrogate: Toluene-d8	47.0			ug/L	50.0		94.0	80-120			

Matrix Spike Dup (B9F1610-MSD1)

Source: 0902817-18

Prepared & Analyzed: 06/16/09

1,1,2,2-Tetrachloroethane	41.8			ug/L	50.0	<	83.5	80-120	2.44	20	
1,1-Dichloroethane	52.2			ug/L	50.0	<	104	77.5-120	1.82	20	
1,1-Dichloroethene	52.9			ug/L	50.0	<	106	76.1-125	0.632	20	
1,3,5-Trimethylbenzene	43.2			ug/L	50.0	<	86.5	80-120	1.73	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1610 - Volatiles											
Matrix Spike Dup (B9F1610-MSD1)			Source: 0902817-18			Prepared & Analyzed: 06/16/09					
1,4-Dichlorobenzene	46.2			ug/L	50.0	<	92.4	75-125	2.38	20	
2-Chlorotoluene	42.3			ug/L	50.0	<	84.6	76.9-120	5.14	20	
Benzene	50.6			ug/L	50.0	<	101	80-120	0.761	20	
Bromoform	50.7			ug/L	50.0	<	101	80-125	2.30	20	
Chlorobenzene	50.5			ug/L	50.0	<	101	80-120	2.67	20	
Chloroform	53.2			ug/L	50.0	<	106	80-120	1.83	20	
Ethylbenzene	50.4			ug/L	50.0	<	101	80-120	0.00734	20	
n-Butylbenzene	46.3			ug/L	50.0	<	92.6	74.7-125	0.443	20	
n-Propylbenzene	41.7			ug/L	50.0	<	83.5	75-120	5.82	20	
Toluene	50.4			ug/L	50.0	<	101	80-120	1.32	20	
Trichloroethene	52.2			ug/L	50.0	<	104	80-120	2.09	20	
Vinyl chloride	60.0			ug/L	50.0	<	120	70-125	0.245	20	
Surrogate: 4-Bromofluorobenzene	51.2			ug/L	50.0		102	80-120			
Surrogate: Dibromofluoromethane	48.7			ug/L	50.0		97.4	80-120			
Surrogate: Toluene-d8	47.0			ug/L	50.0		94.1	80-120			

Batch B9F2213 - Volatiles											
Blank (B9F2213-BLK1)			Prepared & Analyzed: 06/22/09								
1,1,1,2-Tetrachloroethane	< 0.28	1.0	0.28	ug/L							
1,1,1-Trichloroethane	< 0.17	1.0	0.17	ug/L							
1,1,2,2-Tetrachloroethane	< 0.13	1.0	0.13	ug/L							
1,1,2-Trichloroethane	< 0.19	1.0	0.19	ug/L							
1,1,2-Trichlorotrifluoroethane	< 0.28	1.0	0.28	ug/L							
1,1-Dichloroethane	< 0.11	1.0	0.11	ug/L							
1,1-Dichloroethene	< 0.12	1.0	0.12	ug/L							
1,1-Dichloropropene	< 0.15	1.0	0.15	ug/L							
1,2,3-Trichlorobenzene	< 0.47	5.0	0.47	ug/L							
1,2,3-Trichloropropane	< 0.24	2.5	0.24	ug/L							
1,2,4-Trichlorobenzene	< 0.32	5.0	0.32	ug/L							
1,2,4-Trimethylbenzene	< 0.17	1.0	0.17	ug/L							
1,2-Dibromo-3-chloropropane	< 0.60	5.0	0.60	ug/L							
1,2-Dibromoethane (EDB)	< 0.37	2.5	0.37	ug/L							
1,2-Dichlorobenzene	< 0.16	1.0	0.16	ug/L							
1,2-Dichloroethane	< 0.18	1.0	0.18	ug/L							
1,2-Dichloropropane	< 0.21	1.0	0.21	ug/L							
1,3,5-Trimethylbenzene	< 0.18	1.0	0.18	ug/L							
1,3-Dichlorobenzene	< 0.21	1.0	0.21	ug/L							
1,3-Dichloropropane	< 0.15	1.0	0.15	ug/L							
1,4-Dichlorobenzene	< 0.17	1.0	0.17	ug/L							
2,2-Dichloropropane	< 0.58	5.0	0.58	ug/L							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2213 - Volatiles

Blank (B9F2213-BLK1)

Prepared & Analyzed: 06/22/09

2-Butanone	< 0.67	20	0.67	ug/L							
2-Chlorotoluene	< 0.17	1.0	0.17	ug/L							
4-Chlorotoluene	< 0.14	1.0	0.14	ug/L							
Acetone	< 2.8	20	2.8	ug/L							
Allyl chloride	< 0.76	5.0	0.76	ug/L							
Benzene	< 0.093	1.0	0.093	ug/L							
Bromobenzene	< 0.17	1.0	0.17	ug/L							
Bromochloromethane	< 0.21	1.0	0.21	ug/L							
Bromodichloromethane	< 0.22	1.0	0.22	ug/L							
Bromoform	< 0.50	5.0	0.50	ug/L							
Bromomethane	< 0.95	5.0	0.95	ug/L							
Carbon tetrachloride	< 0.16	1.0	0.16	ug/L							
Chlorobenzene	< 0.15	1.0	0.15	ug/L							
Chloroethane	< 0.46	2.5	0.46	ug/L							
Chloroform	< 0.19	1.0	0.19	ug/L							
Chloromethane	< 0.37	2.5	0.37	ug/L							
cis-1,2-Dichloroethene	< 0.19	1.0	0.19	ug/L							
cis-1,3-Dichloropropene	< 0.16	1.0	0.16	ug/L							
Dibromochloromethane	< 0.50	2.5	0.50	ug/L							
Dibromomethane	< 0.30	2.5	0.30	ug/L							
Dichlorodifluoromethane	< 0.58	5.0	0.58	ug/L							
Dichlorofluoromethane	< 0.31	1.0	0.31	ug/L							
Ethyl ether	< 0.53	5.0	0.53	ug/L							
Ethylbenzene	< 0.21	1.0	0.21	ug/L							
Hexachlorobutadiene	< 0.76	10	0.76	ug/L							
Isopropylbenzene	< 0.17	1.0	0.17	ug/L							
m,p-Xylene	< 0.42	2.0	0.42	ug/L							
Methyl isobutyl ketone	< 1.1	5.0	1.1	ug/L							
Methyl tert-butyl ether	< 0.13	1.0	0.13	ug/L							
Methylene chloride	0.748	5.0	0.65	ug/L							J, B-02
Naphthalene	< 0.40	5.0	0.40	ug/L							
n-Butylbenzene	< 0.32	2.5	0.32	ug/L							
n-Propylbenzene	< 0.13	1.0	0.13	ug/L							
o-Xylene	< 0.18	1.0	0.18	ug/L							
p-Isopropyltoluene	< 0.30	2.5	0.30	ug/L							
sec-Butylbenzene	< 0.22	1.0	0.22	ug/L							
Styrene	< 0.13	1.0	0.13	ug/L							
tert-Butylbenzene	< 0.19	1.0	0.19	ug/L							
Tetrachloroethene	< 0.20	1.0	0.20	ug/L							

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05.07SOC350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902817
 Date Reported: 08/12/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2213 - Volatiles

Blank (B9F2213-BLK1)

Prepared & Analyzed: 06/22/09

Tetrahydrofuran	< 0.77	20	0.77	ug/L							
Toluene	< 0.21	1.0	0.21	ug/L							
trans-1,2-Dichloroethene	< 0.29	1.0	0.29	ug/L							
trans-1,3-Dichloropropene	< 0.17	1.0	0.17	ug/L							
Trichloroethene	< 0.20	1.0	0.20	ug/L							
Trichlorofluoromethane	< 0.17	1.0	0.17	ug/L							
Vinyl chloride	< 0.087	1.0	0.087	ug/L							
Surrogate: 4-Bromofluorobenzene	60.6			ug/L	55.0		110	76.4-125			
Surrogate: Dibromofluoromethane	54.1			ug/L	55.0		98.3	80-120			
Surrogate: Toluene-d8	54.2			ug/L	55.0		98.5	80-125			

LCS (B9F2213-BS1)

Prepared & Analyzed: 06/22/09

1,1,1,2-Tetrachloroethane	52.2	1.0	0.13	ug/L	50.0		104	80-120			
1,1-Dichloroethane	54.2	1.0	0.11	ug/L	50.0		108	76.6-120			
1,1-Dichloroethene	53.4	1.0	0.12	ug/L	50.0		107	75.9-120			
1,3,5-Trimethylbenzene	51.3	1.0	0.18	ug/L	50.0		103	80-120			
1,4-Dichlorobenzene	49.1	1.0	0.17	ug/L	50.0		98.2	75-125			
2-Chlorotoluene	51.4	1.0	0.17	ug/L	50.0		103	80-120			
Benzene	51.2	1.0	0.093	ug/L	50.0		102	80-120			
Bromoform	50.1	5.0	0.50	ug/L	50.0		100	75.4-125			
Chlorobenzene	52.6	1.0	0.15	ug/L	50.0		105	80-120			
Chloroform	51.8	1.0	0.19	ug/L	50.0		104	80-120			
Ethylbenzene	51.5	1.0	0.21	ug/L	50.0		103	80-120			
n-Butylbenzene	53.4	2.5	0.32	ug/L	50.0		107	70.6-125			
n-Propylbenzene	52.0	1.0	0.13	ug/L	50.0		104	79.7-120			
Toluene	52.5	1.0	0.21	ug/L	50.0		105	80-120			
Trichloroethene	49.7	1.0	0.20	ug/L	50.0		99.4	80-120			
Vinyl chloride	52.1	1.0	0.087	ug/L	50.0		104	75-129			
Surrogate: 4-Bromofluorobenzene	58.9			ug/L	55.0		107	76.4-125			
Surrogate: Dibromofluoromethane	52.9			ug/L	55.0		96.2	80-120			
Surrogate: Toluene-d8	55.3			ug/L	55.0		100	80-125			

Matrix Spike (B9F2213-MS1)

Source: 0902817-01

Prepared & Analyzed: 06/22/09

1,1,1,2-Tetrachloroethane	50.9	1.0	0.13	ug/L	50.0	<1.0	102	80-120			
1,1-Dichloroethane	52.4	1.0	0.11	ug/L	50.0	<1.0	105	78-120			
1,1-Dichloroethene	52.0	1.0	0.12	ug/L	50.0	<1.0	104	75-120			
1,3,5-Trimethylbenzene	51.2	1.0	0.18	ug/L	50.0	<1.0	102	75.8-120			
1,4-Dichlorobenzene	48.6	1.0	0.17	ug/L	50.0	<1.0	97.1	75-125			
2-Chlorotoluene	50.3	1.0	0.17	ug/L	50.0	<1.0	101	79.1-120			
Benzene	50.5	1.0	0.093	ug/L	50.0	<1.0	101	80-120			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2213 - Volatiles

Matrix Spike (B9F2213-MS1)

Source: 0902817-01

Prepared & Analyzed: 06/22/09

Bromoform	48.0	5.0	0.50	ug/L	50.0	<5.0	95.9	80-123			
Chlorobenzene	51.1	1.0	0.15	ug/L	50.0	<1.0	102	80-120			
Chloroform	50.4	1.0	0.19	ug/L	50.0	<1.0	101	80-120			
Ethylbenzene	51.5	1.0	0.21	ug/L	50.0	<1.0	103	80-120			
n-Butylbenzene	53.7	2.5	0.32	ug/L	50.0	<2.5	107	74.2-125			
n-Propylbenzene	51.4	1.0	0.13	ug/L	50.0	<1.0	103	76.3-120			
Toluene	52.0	1.0	0.21	ug/L	50.0	<1.0	104	80-120			
Trichloroethene	47.5	1.0	0.20	ug/L	50.0	<1.0	95.0	80-120			
Vinyl chloride	51.2	1.0	0.087	ug/L	50.0	<1.0	102	70.3-126			
Surrogate: 4-Bromofluorobenzene	58.0			ug/L	55.0		105	76.4-125			
Surrogate: Dibromofluoromethane	53.1			ug/L	55.0		96.6	80-120			
Surrogate: Toluene-d8	53.9			ug/L	55.0		98.1	80-125			

Matrix Spike Dup (B9F2213-MSD1)

Source: 0902817-01

Prepared & Analyzed: 06/22/09

1,1,2,2-Tetrachloroethane	53.1	1.0	0.13	ug/L	50.0	<1.0	106	80-120	4.12	20	
1,1-Dichloroethane	49.7	1.0	0.11	ug/L	50.0	<1.0	99.4	78-120	5.36	20	
1,1-Dichloroethene	48.8	1.0	0.12	ug/L	50.0	<1.0	97.6	75-120	6.28	20	
1,3,5-Trimethylbenzene	50.0	1.0	0.18	ug/L	50.0	<1.0	100	75.8-120	2.43	20	
1,4-Dichlorobenzene	46.3	1.0	0.17	ug/L	50.0	<1.0	92.6	75-125	4.82	20	
2-Chlorotoluene	48.7	1.0	0.17	ug/L	50.0	<1.0	97.5	79.1-120	3.24	20	
Benzene	48.9	1.0	0.093	ug/L	50.0	<1.0	97.7	80-120	3.33	20	
Bromoform	45.0	5.0	0.50	ug/L	50.0	<5.0	90.0	80-123	6.39	20	
Chlorobenzene	45.7	1.0	0.15	ug/L	50.0	<1.0	91.4	80-120	11.3	20	
Chloroform	48.7	1.0	0.19	ug/L	50.0	<1.0	97.4	80-120	3.40	20	
Ethylbenzene	45.0	1.0	0.21	ug/L	50.0	<1.0	90.0	80-120	13.5	20	
n-Butylbenzene	50.6	2.5	0.32	ug/L	50.0	<2.5	101	74.2-125	6.00	20	
n-Propylbenzene	50.1	1.0	0.13	ug/L	50.0	<1.0	100	76.3-120	2.47	20	
Toluene	49.5	1.0	0.21	ug/L	50.0	<1.0	99.0	80-120	4.97	20	
Trichloroethene	45.4	1.0	0.20	ug/L	50.0	<1.0	90.8	80-120	4.50	20	
Vinyl chloride	49.5	1.0	0.087	ug/L	50.0	<1.0	99.0	70.3-126	3.25	20	
Surrogate: 4-Bromofluorobenzene	58.0			ug/L	55.0		106	76.4-125			
Surrogate: Dibromofluoromethane	50.9			ug/L	55.0		92.6	80-120			
Surrogate: Toluene-d8	54.8			ug/L	55.0		99.7	80-125			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902817 Date Reported: 08/12/09
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Analytical Results - Quality Control
Davy Laboratories, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch D906393 - No Prep											
BLK (0902817-BLK)											
Nitrate/Nitrite as N	<0.06	0.06	--	mg/L							
						Prepared:	Analyzed: 06/17/09				
Batch D906501 - No Prep											
BLK (0902817-BLK)											
Total Kjeldahl as N	<0.55	0.55	--	mg/L							
						Prepared:	Analyzed: 06/23/09				

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902817 Date Reported: 08/12/09
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Notes and Definitions

W-03	The initial sample weight was less than 8.0 grams.
S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
S-02	Surrogate recovery outside of laboratory acceptance limits.
R5	MS/MSD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.
R2	RPD/RSD exceeded the laboratory acceptance limit.
QM-10	LCS/LCSD were analyzed in place of MS/MSD.
Q9	Insufficient sample received to meet method QC requirements.
M2	Matrix spike recovery was low, the associated blank spike recovery was acceptable.
M1	Matrix spike recovery was high, the associated blank spike recovery was acceptable.
J	Parameter was present between the MDL and RL and should be considered an estimated value
H3b	The trip-blank sample was received and analyzed past holding time.
B-02	Target analyte was present in the method blank between the MDL and RL.
B	Analyte was present in the method blank. Sample result is less than or equal to 5 times the blank concentration.
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)

0902817

Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 23/19-BOS-SOC350

Project Name: Umore Park

No: 24495

Sample Identification	Collection Date	Collection Time	Matrix Type		QC	Comp	Grab
			Water	Soil			
1. GP-FB-1 (water) SOC3-6P3	6-10-09	1200	X		X31		
2. GP-FB-2 (soil)	6-10-09	1300	X		X31		
3. Trip Blank	6-10-09	1200	X		X11		
4. SOC1-SS2B	6-11-09	1000	X	X			
5. SS-DOP-1	6-11-09	1005	X	X			
6. SOC1-SS2A	6-11-09	1030	X	X			
7. SOC1-SS2C	6-11-09	1100	X	X			
8. SOC1-SS3B	6-11-09	1200	X	X			
9. SOC1-SS3C	6-11-09	1230	X	X			
10. SOC1-SS3A	6-11-09	1300	X	X			
11. SOC1-SS1A	6-11-09	1330	X	X			
12. SOC1-SS1B	6-11-09	1345	X	X			

Common Parameter/Container - Preservation Key
 *1 - Volatile Organics = BTEX, GRO, TPH, Full List
 *2 - Semivolatile Organics = PAHs, PCB, Dioxins, Full List,
 Herbicide/Pesticide/PCBs
 *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS,
 TDS, TS, Sulfate
 *4 - Nutrients = COD, TOC, Phenols, Ammonia
 Nitrogen, TKN

Number of Containers/Preservative		Total No. Of Containers	Remarks
Water	Soil		
Volatile Organics (Pres.) *1			
Semivolatile Organics (HNO ₃) *2			
Dissolved Metals (HNO ₃)			
General (Unpreserved) *3			
Cyanide (NaOH)			
Nutrients (H ₂ SO ₄) *4			
Oil and Grease (H ₂ SO ₄)			
Sulfide (Zn Acetate)			
Mercury (Ascorbic Acid)			
Bacteria (Na ₂ S ₂ O ₃)			
DRP (HCl)			
PRP Metals			
PC Pesticides			
Nitrogen			
VOCS (2-oz tared MeOH) *1			
GRO, BTEX (2-oz tared MeOH) *1			
Metals (2-oz unpreserved)			
SVOCs (2 or 4-oz unpres.) *2			
% Moisture (plastic vial, unpres.)			
Arsenic			

COC 1 of 2
 Project Manager: SME
 Project Contact: KSN
 Sampled by: ESC
 Laboratory: Legend

Remarks:
 VOCs - Method 8260B
 SVOCs - Method 8270C
 Arsenic - Method 6010B
 PRP Metals - Method 6010B
 except Ar, Be, Tl, Pb, Bi
 VOC Pesticides - Method 8061A
 PRP - Method 9050M and 351.2

Relinquished By:	Date:	Time:	Received by:	Date:	Time:
J.P. Kowalski	6/11/09	2:30	Sam BS	6/11/09	13:50

Air Bill Number:
 Samples Shipped Via: Air Freight Retail Express Other
 Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator
 RR 830

H:\R\ST\FORMS\Chain of Custody Form RLG Rev 07/01/05

H-RLG15TD FORM/Chain of Custody Form RLG Rev. 07/01/05

0902817

Chain of Custody

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

BARR

Project Number

23/19-BO5, SOC350

Project Name

Umore Park

NO 28515

Sample Identification	Collection Date	Time	Matrix Type		
			Water	Soil	Grab
1. SOC1-SS1C	6-11-09	1400	X	X	X
2. SS1	6-11-09	1500	X	X	X
3. SS2	6-11-09	1530	X	X	X
4. SS3	6-11-09	1545	X	X	X
5. SS4	6-11-09	1615	X	X	X
6. SS5	6-11-09	1700	X	X	X
7. SS5 (MS)	6-11-09	1705	X	X	X
8. SS5 (MSD)	6-11-09	1710	X	X	X
9. SS5 (MS)					
10.					
11.					
12.					

Common Parameter/Container - Preservation Key

- *1 - Volatile Organics = BTEX, GRO, TPH, Full List
- *2 - Semivolatile Organics = PAHs, PCB, Dioxins, Full List
- *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfide
- *4 - Nutrients = COD, TOC, Phosphorus, Ammonia Nitrogen, TKY

Number of Containers/Preservative		Water		Soil	
Volatile Organics (Pres) *1					
Semivolatile Organics *2					
Dissolved Metals (HNO ₃)					
Total Metals (HNO ₃)					
General (Unpreserved) *3					
Cyanide (NaOH)					
Nutrients (H ₂ SO ₄) *4					
Oil and Grease (H ₂ SO ₄)					
Sulfide (Zn Acetate)					
Methane					
Bacteria (Na ₂ S ₂ O ₃)					
DRO (HCl)					
VOCs (2-oz tared MeOH) *1					
GRO, BTEX (2-oz tared MeOH) *1					
DRO (2-oz tared) - 25 grams					
Metals (2-oz unpreserved) *2					
SVOCS (2 or 4-oz unpres.) *2					
% Moisture (plastic vial, unpres.)					
Total No. Of Containers					

COC # of 2
Project Manager: SME
Project Contact: KJN
Sampled by: ESC
Laboratory: Legend

Remarks:

1	2	3	4	5	6	7	8	9	10	11	12

Relinquished By: Judy Lovelace Date: 6-11-09 Time: 2:30

Relinquished By: Blum Date: 6-12-09 Time: 13:30

Samples Shipped Via: Air Freight Federal Express Other

Air Bill Number: _____

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator



88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

June 30, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0902852
RE: 23/19-0B05.07

Enclosed are the results of analyses for samples received by the laboratory on 06/16/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
tolson@legend-group.com

Erica Nastrom
QA/QC Coordinator
enastrom@legend-group.com

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902852 Date Reported: 06/30/09
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC3-TT6-0-1'	0902852-01	Soil	06/15/09 14:00	06/16/09 10:45
SOC3-TT9-7-8'	0902852-02	Soil	06/15/09 14:30	06/16/09 10:45
SOC3-TT9-0.5'	0902852-03	Soil	06/15/09 14:45	06/16/09 10:45
SOC3-TT3-0.5'	0902852-04	Soil	06/15/09 15:30	06/16/09 10:45
SOC3-TT13-1'	0902852-05	Soil	06/15/09 16:00	06/16/09 10:45
SOC3-TT13-0.5'	0902852-06	Soil	06/15/09 16:15	06/16/09 10:45
SOC3-DUP4	0902852-07	Soil	06/15/09 00:00	06/16/09 10:45
TT-FB-1	0902852-08	Water	06/15/09 17:30	06/16/09 10:45

Shipping Container Information

Default Cooler

Temperature (°C):

Received on ice: Yes
 Received on melt water: No
 Custody seals: No

Temperature blank was not present
 Ambient: No

Received on ice pack: No
 Acceptable (IH/ISO only): No

Case Narrative:

Recoveries for the 8270 SVOC compounds 4-chloro-3-methylphenol, 4-nitrophenol, and phenol in the water batch B9F1702 MS/MSD were below laboratory limits. Recoveries for the surrogates 2-fluorophenol, phenol-d6, and 2,4,6-tribromophenol were below laboratory limits in the MS/MSD. All spike compounds and surrogates were within limits in the batch method blank and LCS. The MS/MSD source sample was not associated with this work order.

Recoveries for most of the 8270 SVOC compounds in the soil batch B9F1801 MS were below laboratory limits. The %RPDs for most of the compounds were outside laboratory limits in the MS/MSD. Recoveries for the surrogates 2-fluorobiphenyl and 2-fluorophenol in the MS were below laboratory limits. All spike compounds and surrogates were within limits in the batch method blank and LCS/MSD. The MS/MSD source sample was not associated with this work order.

Recovery for 4,4'-DDT in the ending 8081A continuing calibration verification standard (CCVS) was above the method limit, however, following calibration evaluation procedures per EPA 8000B, the average % difference for all analytes was within the method limit, verifying the calibration. The specific analytes are flagged as required.

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902852 Date Reported: 06/30/09
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TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT6-0-1' (0902852-01) Soil Sampled: 06/15/09 14:00 Received: 06/16/09 10:45										
Antimony	<0.62	0.62	0.0069	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Arsenic	9.8	0.62	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	0.67	0.31	0.014	mg/kg dry	1	"	"	"	"	
Cadmium	<0.31	0.31	0.031	mg/kg dry	1	"	"	"	"	
Chromium	22	0.62	0.015	mg/kg dry	1	"	"	"	"	
Copper	15	1.2	0.088	mg/kg dry	1	"	"	"	"	
Lead	14	1.2	0.042	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0039	mg/kg dry	1	B9F2418	06/24/09	06/25/09	EPA 7471A	
Nickel	20	0.62	0.018	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Selenium	<1.2	1.2	0.14	mg/kg dry	1	"	"	"	"	
Silver	<0.31	0.31	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.5	2.5	0.16	mg/kg dry	1	"	"	"	"	
Zinc	53	1.2	0.28	mg/kg dry	1	"	"	"	"	

SOC3-TT9-7-8' (0902852-02) Soil Sampled: 06/15/09 14:30 Received: 06/16/09 10:45										
Antimony	<0.52	0.52	0.0057	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Arsenic	1.4	0.52	0.10	mg/kg dry	1	"	"	"	"	
Beryllium	<0.26	0.26	0.011	mg/kg dry	1	"	"	"	"	
Cadmium	<0.26	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chromium	6.1	0.52	0.012	mg/kg dry	1	"	"	"	"	
Copper	5.2	1.0	0.072	mg/kg dry	1	"	"	"	"	
Lead	1.9	1.0	0.035	mg/kg dry	1	"	"	"	"	
Mercury	<0.10	0.10	0.0032	mg/kg dry	1	B9F2418	06/24/09	06/25/09	EPA 7471A	
Nickel	6.3	0.52	0.014	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Selenium	<1.0	1.0	0.11	mg/kg dry	1	"	"	"	"	
Silver	<0.26	0.26	0.0093	mg/kg dry	1	"	"	"	"	
Thallium	<2.1	2.1	0.13	mg/kg dry	1	"	"	"	"	
Zinc	21	1.0	0.23	mg/kg dry	1	"	"	"	"	

SOC3-TT9-0.5' (0902852-03) Soil Sampled: 06/15/09 14:45 Received: 06/16/09 10:45										
Arsenic	3.8	0.57	0.11	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	

SOC3-TT3-0.5' (0902852-04) Soil Sampled: 06/15/09 15:30 Received: 06/16/09 10:45										
Antimony	<0.52	0.52	0.0057	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Arsenic	1.5	0.52	0.10	mg/kg dry	1	"	"	"	"	
Beryllium	<0.26	0.26	0.011	mg/kg dry	1	"	"	"	"	
Cadmium	<0.26	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chromium	7.4	0.52	0.012	mg/kg dry	1	"	"	"	"	
Copper	4.7	1.0	0.072	mg/kg dry	1	"	"	"	"	
Lead	1.7	1.0	0.035	mg/kg dry	1	"	"	"	"	

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TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT3-0.5' (0902852-04) Soil Sampled: 06/15/09 15:30 Received: 06/16/09 10:45										
Mercury	<0.10	0.10	0.0032	mg/kg dry	1	B9F2418	06/24/09	06/25/09	EPA 7471A	
Nickel	6.4	0.52	0.014	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Selenium	<1.0	1.0	0.11	mg/kg dry	1	"	"	"	"	
Silver	<0.26	0.26	0.0093	mg/kg dry	1	"	"	"	"	
Thallium	<2.1	2.1	0.13	mg/kg dry	1	"	"	"	"	
Zinc	14	1.0	0.23	mg/kg dry	1	"	"	"	"	
SOC3-TT13-1' (0902852-05) Soil Sampled: 06/15/09 16:00 Received: 06/16/09 10:45										
Antimony	<0.54	0.54	0.0059	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Arsenic	3.3	0.54	0.11	mg/kg dry	1	"	"	"	"	
Beryllium	<0.27	0.27	0.012	mg/kg dry	1	"	"	"	"	
Cadmium	<0.27	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chromium	10	0.54	0.013	mg/kg dry	1	"	"	"	"	
Copper	7.4	1.1	0.075	mg/kg dry	1	"	"	"	"	
Lead	4.4	1.1	0.037	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0033	mg/kg dry	1	B9F2418	06/24/09	06/25/09	EPA 7471A	
Nickel	9.4	0.54	0.015	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	
Selenium	<1.1	1.1	0.12	mg/kg dry	1	"	"	"	"	
Silver	<0.27	0.27	0.0097	mg/kg dry	1	"	"	"	"	
Thallium	<2.2	2.2	0.14	mg/kg dry	1	"	"	"	"	
Zinc	25	1.1	0.24	mg/kg dry	1	"	"	"	"	
SOC3-TT13-0.5' (0902852-06) Soil Sampled: 06/15/09 16:15 Received: 06/16/09 10:45										
Arsenic	2.6	0.57	0.11	mg/kg dry	1	B9F1806	06/18/09	06/24/09	EPA 6010B	

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PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT6-0-1' (0902852-01) Soil Sampled: 06/15/09 14:00 Received: 06/16/09 10:45										
% Solids	80			%	1	B9F1705	06/17/09	06/17/09	% calculation	
SOC3-TT9-7-8' (0902852-02) Soil Sampled: 06/15/09 14:30 Received: 06/16/09 10:45										
% Solids	97			%	1	B9F1705	06/17/09	06/17/09	% calculation	
SOC3-TT9-0.5' (0902852-03) Soil Sampled: 06/15/09 14:45 Received: 06/16/09 10:45										
% Solids	88			%	1	B9F1705	06/17/09	06/17/09	% calculation	
SOC3-TT3-0.5' (0902852-04) Soil Sampled: 06/15/09 15:30 Received: 06/16/09 10:45										
% Solids	97			%	1	B9F1705	06/17/09	06/17/09	% calculation	
SOC3-TT13-1' (0902852-05) Soil Sampled: 06/15/09 16:00 Received: 06/16/09 10:45										
% Solids	93			%	1	B9F1705	06/17/09	06/17/09	% calculation	
SOC3-TT13-0.5' (0902852-06) Soil Sampled: 06/15/09 16:15 Received: 06/16/09 10:45										
% Solids	87			%	1	B9F1705	06/17/09	06/17/09	% calculation	
SOC3-DUP4 (0902852-07) Soil Sampled: 06/15/09 00:00 Received: 06/16/09 10:45										
% Solids	81			%	1	B9F1705	06/17/09	06/17/09	% calculation	

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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT6-0-1' (0902852-01) Soil Sampled: 06/15/09 14:00 Received: 06/16/09 10:45										
4,4'-DDD	<0.050	0.050	0.0015	mg/kg dry	1	B9F2503	06/25/09	06/27/09	EPA 8081A	
4,4'-DDE	<0.050	0.050	0.0016	mg/kg dry	1	"	"	"	"	
4,4'-DDT	<0.050	0.050	0.0019	mg/kg dry	1	"	"	"	"	V7
a-Chlordane	<0.050	0.050	0.0018	mg/kg dry	1	"	"	"	"	
Aldrin	<0.050	0.050	0.0015	mg/kg dry	1	"	"	"	"	
alpha-BHC	<0.050	0.050	0.0019	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.050	0.050	0.0020	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.050	0.050	0.0021	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.050	0.050	0.0018	mg/kg dry	1	"	"	"	"	
Endosulfan I	<0.050	0.050	0.0019	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.050	0.050	0.0019	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.050	0.050	0.0019	mg/kg dry	1	"	"	"	"	
Endrin	<0.050	0.050	0.0018	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.050	0.050	0.0019	mg/kg dry	1	"	"	"	"	
Endrin ketone	<0.050	0.050	0.0018	mg/kg dry	1	"	"	"	"	
gamma-BHC (Lindane)	<0.050	0.050	0.0018	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.050	0.050	0.0018	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.050	0.050	0.0019	mg/kg dry	1	"	"	"	"	
Heptachlor epoxide	<0.050	0.050	0.0019	mg/kg dry	1	"	"	"	"	
Methoxychlor	<0.050	0.050	0.0019	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.10	0.10	0.0076	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	100			83.7-130 %		"	"	06/27/09	"	
Surrogate: Tetrachloro-meta-xylene	93.0			65.2-135 %		"	"	"	"	

SOC3-TT9-7-8' (0902852-02) Soil Sampled: 06/15/09 14:30 Received: 06/16/09 10:45										
4,4'-DDD	<0.041	0.041	0.0012	mg/kg dry	1	B9F2503	06/25/09	06/27/09	EPA 8081A	
4,4'-DDE	<0.041	0.041	0.0013	mg/kg dry	1	"	"	"	"	
4,4'-DDT	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	V7
a-Chlordane	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
Aldrin	<0.041	0.041	0.0012	mg/kg dry	1	"	"	"	"	
alpha-BHC	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.041	0.041	0.0016	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.041	0.041	0.0018	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
Endosulfan I	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Endrin	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	

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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT9-7-8' (0902852-02) Soil Sampled: 06/15/09 14:30 Received: 06/16/09 10:45										
Endrin ketone	<0.041	0.041	0.0014	mg/kg dry	1	B9F2503	06/25/09	06/27/09	EPA 8081A	
gamma-BHC (Lindane)	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Heptachlor epoxide	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Methoxychlor	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.082	0.082	0.0063	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	103			83.7-130 %		"	"	06/27/09	"	
Surrogate: Tetrachloro-meta-xylene	98.0			65.2-135 %		"	"	"	"	

SOC3-TT3-0.5' (0902852-04) Soil Sampled: 06/15/09 15:30 Received: 06/16/09 10:45										
4,4'-DDD	<0.041	0.041	0.0012	mg/kg dry	1	B9F2503	06/25/09	06/27/09	EPA 8081A	
4,4'-DDE	<0.041	0.041	0.0013	mg/kg dry	1	"	"	"	"	
4,4'-DDT	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	V7
a-Chlordane	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
Aldrin	<0.041	0.041	0.0012	mg/kg dry	1	"	"	"	"	
alpha-BHC	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.041	0.041	0.0016	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.041	0.041	0.0018	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
Endosulfan I	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Endrin	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Endrin ketone	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
gamma-BHC (Lindane)	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.041	0.041	0.0014	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Heptachlor epoxide	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Methoxychlor	<0.041	0.041	0.0015	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.082	0.082	0.0063	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	106			83.7-130 %		"	"	06/27/09	"	
Surrogate: Tetrachloro-meta-xylene	99.5			65.2-135 %		"	"	"	"	

SOC3-TT13-1' (0902852-05) Soil Sampled: 06/15/09 16:00 Received: 06/16/09 10:45										
4,4'-DDD	<0.043	0.043	0.0013	mg/kg dry	1	B9F2503	06/25/09	06/27/09	EPA 8081A	
4,4'-DDE	<0.043	0.043	0.0014	mg/kg dry	1	"	"	"	"	
4,4'-DDT	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	V7
a-Chlordane	<0.043	0.043	0.0015	mg/kg dry	1	"	"	"	"	

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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT13-1' (0902852-05) Soil Sampled: 06/15/09 16:00 Received: 06/16/09 10:45										
Aldrin	<0.043	0.043	0.0013	mg/kg dry	1	B9F2503	06/25/09	06/27/09	EPA 8081A	
alpha-BHC	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
beta-BHC	<0.043	0.043	0.0017	mg/kg dry	1	"	"	"	"	
delta-BHC	<0.043	0.043	0.0018	mg/kg dry	1	"	"	"	"	
Dieldrin	<0.043	0.043	0.0015	mg/kg dry	1	"	"	"	"	
Endosulfan I	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Endosulfan II	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Endosulfan sulfate	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Endrin	<0.043	0.043	0.0015	mg/kg dry	1	"	"	"	"	
Endrin aldehyde	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Endrin ketone	<0.043	0.043	0.0015	mg/kg dry	1	"	"	"	"	
gamma-BHC (Lindane)	<0.043	0.043	0.0015	mg/kg dry	1	"	"	"	"	
gamma-Chlordane	<0.043	0.043	0.0015	mg/kg dry	1	"	"	"	"	
Heptachlor	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Heptachlor epoxide	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Methoxychlor	<0.043	0.043	0.0016	mg/kg dry	1	"	"	"	"	
Toxaphene	<0.086	0.086	0.0066	mg/kg dry	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	106			83.7-130 %		"	"	06/27/09	"	
Surrogate: Tetrachloro-meta-xylene	97.5			65.2-135 %		"	"	"	"	

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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT6-0-1' (0902852-01) Soil Sampled: 06/15/09 14:00 Received: 06/16/09 10:45										
1,2,4-Trichlorobenzene	<0.034	0.41	0.034	mg/kg dry	1	B9F1801	06/18/09	06/19/09	EPA 8270C	
1,2-Dichlorobenzene	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.029	0.41	0.029	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.048	0.84	0.048	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.030	0.84	0.030	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.044	0.84	0.044	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.044	0.84	0.044	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.84	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.072	0.84	0.072	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.054	0.84	0.054	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.024	0.41	0.024	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.024	0.41	0.024	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.048	0.84	0.048	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.044	0.84	0.044	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.045	0.84	0.045	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.49	2.0	0.49	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.092	0.84	0.092	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.021	0.41	0.021	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.050	0.84	0.050	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.14	0.84	0.14	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.029	0.41	0.029	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.034	0.84	0.034	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.029	0.41	0.029	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.84	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.029	0.41	0.029	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.84	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
Benzidine	<0.90	3.1	0.90	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.034	0.41	0.034	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.034	0.41	0.034	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.042	0.41	0.042	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.038	0.41	0.038	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902852 Date Reported: 06/30/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT6-0-1' (0902852-01) Soil Sampled: 06/15/09 14:00 Received: 06/16/09 10:45										
Benzo (k) fluoranthene	<0.039	0.41	0.039	mg/kg dry	1	B9F1801	06/18/09	06/19/09	EPA 8270C	
Benzoic acid	<0.072	0.41	0.072	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.84	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
Carbazole	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
Chrysene	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.042	0.41	0.042	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.024	0.41	0.024	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.019	0.41	0.019	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.046	0.41	0.046	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
Fluorene	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.020	0.41	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.051	0.41	0.051	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.040	0.41	0.040	mg/kg dry	1	"	"	"	"	
Isophorone	<0.021	0.41	0.021	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.036	0.41	0.036	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.038	0.41	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.040	0.41	0.040	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.84	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.024	0.41	0.024	mg/kg dry	1	"	"	"	"	
Phenol	<0.071	0.84	0.071	mg/kg dry	1	"	"	"	"	
Pyrene	<0.029	0.41	0.029	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	74.4			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	66.3			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	65.0			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	65.4			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	72.1			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	88.1			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902852 Date Reported: 06/30/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT9-7-8' (0902852-02) Soil Sampled: 06/15/09 14:30 Received: 06/16/09 10:45										
1,2,4-Trichlorobenzene	<0.028	0.34	0.028	mg/kg dry	1	B9F1903	06/19/09	06/19/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.039	0.69	0.039	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.025	0.69	0.025	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.093	0.69	0.093	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.060	0.69	0.060	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.044	0.69	0.044	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.039	0.69	0.039	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.037	0.69	0.037	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.40	1.6	0.40	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.076	0.69	0.076	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.041	0.69	0.041	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.11	0.69	0.11	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.028	0.69	0.028	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.69	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.093	0.69	0.093	mg/kg dry	1	"	"	"	"	
Anthracene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.74	2.6	0.74	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902852 Date Reported: 06/30/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT9-7-8' (0902852-02) Soil Sampled: 06/15/09 14:30 Received: 06/16/09 10:45										
Benzo (k) fluoranthene	<0.032	0.34	0.032	mg/kg dry	1	B9F1903	06/19/09	06/19/09	EPA 8270C	
Benzoic acid	<0.060	0.34	0.060	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.12	0.69	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Chrysene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.015	0.34	0.015	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.038	0.34	0.038	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.016	0.34	0.016	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.042	0.34	0.042	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.030	0.34	0.030	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.099	0.69	0.099	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.059	0.69	0.059	mg/kg dry	1	"	"	"	"	
Pyrene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	59.7			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	58.0			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	60.1			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	57.0			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	62.1			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	67.5			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902852 Date Reported: 06/30/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT3-0.5' (0902852-04) Soil Sampled: 06/15/09 15:30 Received: 06/16/09 10:45										
1,2,4-Trichlorobenzene	<0.028	0.34	0.028	mg/kg dry	1	B9F1903	06/19/09	06/19/09	EPA 8270C	
1,2-Dichlorobenzene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.039	0.69	0.039	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.025	0.69	0.025	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.093	0.69	0.093	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.060	0.69	0.060	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.044	0.69	0.044	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.039	0.69	0.039	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.036	0.69	0.036	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.037	0.69	0.037	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.40	1.6	0.40	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.076	0.69	0.076	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.041	0.69	0.041	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.11	0.69	0.11	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.028	0.69	0.028	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.10	0.69	0.10	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Aniline	<0.093	0.69	0.093	mg/kg dry	1	"	"	"	"	
Anthracene	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Benzidine	<0.74	2.6	0.74	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.028	0.34	0.028	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05SOC 350
 Project Manager: Ms. Kelly Nepl

Work Order #: 0902852
 Date Reported: 06/30/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT3-0.5' (0902852-04) Soil Sampled: 06/15/09 15:30 Received: 06/16/09 10:45										
Benzo (k) fluoranthene	<0.032	0.34	0.032	mg/kg dry	1	B9F1903	06/19/09	06/19/09	EPA 8270C	
Benzoic acid	<0.060	0.34	0.060	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.12	0.69	0.12	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.021	0.34	0.021	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.022	0.34	0.022	mg/kg dry	1	"	"	"	"	
Carbazole	<0.023	0.34	0.023	mg/kg dry	1	"	"	"	"	
Chrysene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.035	0.34	0.035	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.015	0.34	0.015	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.038	0.34	0.038	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.025	0.34	0.025	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.016	0.34	0.016	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.034	0.34	0.034	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.042	0.34	0.042	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.029	0.34	0.029	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.34	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.030	0.34	0.030	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.031	0.34	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.033	0.34	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.026	0.34	0.026	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.34	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.099	0.69	0.099	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.34	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.059	0.69	0.059	mg/kg dry	1	"	"	"	"	
Pyrene	<0.024	0.34	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	69.7			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	60.1			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	60.7			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	57.3			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	63.7			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	76.7			43.6-112 %		"	"	"	"	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05SOC 350
 Project Manager: Ms. Kelly Nepl

Work Order #: 0902852
 Date Reported: 06/30/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT13-1' (0902852-05) Soil Sampled: 06/15/09 16:00 Received: 06/16/09 10:45										
1,2,4-Trichlorobenzene	<0.029	0.35	0.029	mg/kg dry	1	B9F1903	06/19/09	06/19/09	EPA 8270C	
1,2-Dichlorobenzene	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.041	0.72	0.041	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.026	0.72	0.026	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.038	0.72	0.038	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.038	0.72	0.038	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.097	0.72	0.097	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.062	0.72	0.062	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.046	0.72	0.046	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.041	0.72	0.041	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.038	0.72	0.038	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.039	0.72	0.039	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.42	1.7	0.42	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.080	0.72	0.080	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.043	0.72	0.043	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.72	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.029	0.72	0.029	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.72	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
Aniline	<0.097	0.72	0.097	mg/kg dry	1	"	"	"	"	
Anthracene	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
Benzidine	<0.77	2.7	0.77	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.029	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.029	0.35	0.029	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.037	0.35	0.037	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.032	0.35	0.032	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902852 Date Reported: 06/30/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT13-1' (0902852-05) Soil Sampled: 06/15/09 16:00 Received: 06/16/09 10:45										
Benzo (k) fluoranthene	<0.033	0.35	0.033	mg/kg dry	1	B9F1903	06/19/09	06/19/09	EPA 8270C	
Benzoic acid	<0.062	0.35	0.062	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.72	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.022	0.35	0.022	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.023	0.35	0.023	mg/kg dry	1	"	"	"	"	
Carbazole	<0.024	0.35	0.024	mg/kg dry	1	"	"	"	"	
Chrysene	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.037	0.35	0.037	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.016	0.35	0.016	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.040	0.35	0.040	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.026	0.35	0.026	mg/kg dry	1	"	"	"	"	
Fluorene	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.017	0.35	0.017	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.035	0.35	0.035	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.044	0.35	0.044	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.030	0.35	0.030	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.034	0.35	0.034	mg/kg dry	1	"	"	"	"	
Isophorone	<0.018	0.35	0.018	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.031	0.35	0.031	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.032	0.35	0.032	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.034	0.35	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.027	0.35	0.027	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.019	0.35	0.019	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.10	0.72	0.10	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.020	0.35	0.020	mg/kg dry	1	"	"	"	"	
Phenol	<0.061	0.72	0.061	mg/kg dry	1	"	"	"	"	
Pyrene	<0.025	0.35	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	66.3			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	60.4			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	61.2			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	57.7			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	64.1			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	76.1			43.6-112 %		"	"	"	"	

Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Project: 23/19-0B05.07
Project Number: 23/19-0B05SOC 350
Project Manager: Ms. Kelly Neppi

Work Order #: 0902852
Date Reported: 06/30/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-DUP4 (0902852-07) Soil Sampled: 06/15/09 00:00 Received: 06/16/09 10:45										
1,2,4-Trichlorobenzene	<0.033	0.41	0.033	mg/kg dry	1	B9F1903	06/19/09	06/19/09	EPA 8270C	
1,2-Dichlorobenzene	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.047	0.83	0.047	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.030	0.83	0.030	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.83	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.072	0.83	0.072	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.053	0.83	0.053	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.047	0.83	0.047	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.043	0.83	0.043	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.044	0.83	0.044	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.48	2.0	0.48	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.091	0.83	0.091	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.021	0.41	0.021	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.049	0.83	0.049	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.14	0.83	0.14	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.033	0.83	0.033	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.83	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.83	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
Benzidine	<0.89	3.1	0.89	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.033	0.41	0.033	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.033	0.41	0.033	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.042	0.41	0.042	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.037	0.41	0.037	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902852 Date Reported: 06/30/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-DUP4 (0902852-07) Soil Sampled: 06/15/09 00:00 Received: 06/16/09 10:45										
Benzo (k) fluoranthene	<0.038	0.41	0.038	mg/kg dry	1	B9F1903	06/19/09	06/19/09	EPA 8270C	
Benzoic acid	0.58	0.41	0.072	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.15	0.83	0.15	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.027	0.41	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.025	0.41	0.025	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.026	0.41	0.026	mg/kg dry	1	"	"	"	"	
Carbazole	<0.027	0.41	0.027	mg/kg dry	1	"	"	"	"	
Chrysene	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.042	0.41	0.042	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.019	0.41	0.019	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.046	0.41	0.046	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.030	0.41	0.030	mg/kg dry	1	"	"	"	"	
Fluorene	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.020	0.41	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.041	0.41	0.041	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.051	0.41	0.051	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.035	0.41	0.035	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.040	0.41	0.040	mg/kg dry	1	"	"	"	"	
Isophorone	<0.021	0.41	0.021	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.036	0.41	0.036	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.037	0.41	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.040	0.41	0.040	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.031	0.41	0.031	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.022	0.41	0.022	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.12	0.83	0.12	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.023	0.41	0.023	mg/kg dry	1	"	"	"	"	
Phenol	<0.070	0.83	0.070	mg/kg dry	1	"	"	"	"	
Pyrene	<0.028	0.41	0.028	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	84.5			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	64.1			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	62.7			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	56.2			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	68.5			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	92.4			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902852 Date Reported: 06/30/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TT-FB-1 (0902852-08) Water Sampled: 06/15/09 17:30 Received: 06/16/09 10:45										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9F1702	06/17/09	06/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3'-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902852 Date Reported: 06/30/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TT-FB-1 (0902852-08) Water Sampled: 06/15/09 17:30 Received: 06/16/09 10:45										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9F1702	06/17/09	06/18/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	77.9			48.5-114 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	84.9			41.7-98.4 %		"	"	"	"	
Surrogate: 2-Fluorophenol	53.4			30-93.5 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	82.6			47.4-97.8 %		"	"	"	"	
Surrogate: Phenol-d6	43.5			30-91.5 %		"	"	"	"	
Surrogate: Terphenyl-d14	94.5			30-108 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902852 Date Reported: 06/30/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT6-0-1' (0902852-01) Soil Sampled: 06/15/09 14:00 Received: 06/16/09 10:45										
1,1,1,2-Tetrachloroethane	<0.032	0.31	0.032	mg/kg dry	1	B9F1807	06/18/09	06/19/09	EPA 8260B	
1,1,1-Trichloroethane	<0.041	0.31	0.041	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.031	0.31	0.031	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.046	0.31	0.046	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.081	0.31	0.081	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.030	0.31	0.030	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.031	0.31	0.031	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.034	0.31	0.034	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.082	0.62	0.082	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.066	0.31	0.066	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.080	0.62	0.080	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.025	0.31	0.025	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.071	0.62	0.071	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.048	0.31	0.048	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.034	0.31	0.034	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.031	0.31	0.031	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.035	0.31	0.035	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.019	0.31	0.019	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.035	0.31	0.035	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.021	0.31	0.021	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.022	0.31	0.022	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.085	0.62	0.085	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.15	2.5	0.15	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.022	0.31	0.022	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.036	0.31	0.036	mg/kg dry	1	"	"	"	"	
Acetone	<0.40	2.5	0.40	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.084	0.62	0.084	mg/kg dry	1	"	"	"	"	
Benzene	<0.019	0.31	0.019	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.024	0.31	0.024	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.031	0.31	0.031	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.044	0.31	0.044	mg/kg dry	1	"	"	"	"	
Bromoform	<0.10	0.62	0.10	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.18	0.62	0.18	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.034	0.31	0.034	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.031	0.31	0.031	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.091	0.31	0.091	mg/kg dry	1	"	"	"	"	
Chloroform	<0.052	0.31	0.052	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.051	0.31	0.051	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.058	0.31	0.058	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902852 Date Reported: 06/30/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT6-0-1' (0902852-01) Soil Sampled: 06/15/09 14:00 Received: 06/16/09 10:45										
cis-1,3-Dichloropropene	<0.029	0.31	0.029	mg/kg dry	1	B9F1807	06/18/09	06/19/09	EPA 8260B	
Dibromochloromethane	<0.040	0.31	0.040	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.058	0.31	0.058	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.10	0.62	0.10	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.055	0.31	0.055	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.060	0.62	0.060	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.028	0.31	0.028	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.16	1.2	0.16	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.029	0.31	0.029	mg/kg dry	1	"	"	"	"	
m,p-Xylene	0.11	0.62	0.11	mg/kg dry	1	"	"	"	"	J
Methyl isobutyl ketone	<0.12	0.62	0.12	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.021	0.31	0.021	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.21	1.2	0.21	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.081	0.62	0.081	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.040	0.31	0.040	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.018	0.31	0.018	mg/kg dry	1	"	"	"	"	
o-Xylene	0.059	0.31	0.039	mg/kg dry	1	"	"	"	"	J
p-Isopropyltoluene	<0.038	0.31	0.038	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.012	0.31	0.012	mg/kg dry	1	"	"	"	"	
Styrene	<0.050	0.31	0.050	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.022	0.31	0.022	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.044	0.31	0.044	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.12	2.5	0.12	mg/kg dry	1	"	"	"	"	
Toluene	<0.035	0.31	0.035	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.028	0.31	0.028	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.044	0.31	0.044	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.050	0.31	0.050	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.040	0.31	0.040	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.029	0.31	0.029	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	88.6			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	84.5			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	87.3			80-120 %		"	"	"	"	

SOC3-TT9-7-8' (0902852-02) Soil Sampled: 06/15/09 14:30 Received: 06/16/09 10:45										
1,1,1,2-Tetrachloroethane	<0.027	0.26	0.027	mg/kg dry	1	B9F1807	06/18/09	06/19/09	EPA 8260B	
1,1,1-Trichloroethane	<0.034	0.26	0.034	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.038	0.26	0.038	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.067	0.26	0.067	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902852 Date Reported: 06/30/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT9-7-8' (0902852-02) Soil Sampled: 06/15/09 14:30 Received: 06/16/09 10:45										
1,1-Dichloroethane	<0.025	0.26	0.025	mg/kg dry	1	B9F1807	06/18/09	06/19/09	EPA 8260B	
1,1-Dichloroethene	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.028	0.26	0.028	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.068	0.52	0.068	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.055	0.26	0.055	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.066	0.52	0.066	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.021	0.26	0.021	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.059	0.52	0.059	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.039	0.26	0.039	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.028	0.26	0.028	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.029	0.26	0.029	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.015	0.26	0.015	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.029	0.26	0.029	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.018	0.26	0.018	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.019	0.26	0.019	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.070	0.52	0.070	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.12	2.1	0.12	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.019	0.26	0.019	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.030	0.26	0.030	mg/kg dry	1	"	"	"	"	
Acetone	<0.33	2.1	0.33	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.069	0.52	0.069	mg/kg dry	1	"	"	"	"	
Benzene	<0.015	0.26	0.015	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.020	0.26	0.020	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.036	0.26	0.036	mg/kg dry	1	"	"	"	"	
Bromoform	<0.082	0.52	0.082	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.14	0.52	0.14	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.028	0.26	0.028	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.075	0.26	0.075	mg/kg dry	1	"	"	"	"	
Chloroform	<0.043	0.26	0.043	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.042	0.26	0.042	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.047	0.26	0.047	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.024	0.26	0.024	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.033	0.26	0.033	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.047	0.26	0.047	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.085	0.52	0.085	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.045	0.26	0.045	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902852 Date Reported: 06/30/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT9-7-8' (0902852-02) Soil Sampled: 06/15/09 14:30 Received: 06/16/09 10:45										
Ethyl ether	<0.049	0.52	0.049	mg/kg dry	1	B9F1807	06/18/09	06/19/09	EPA 8260B	
Ethylbenzene	<0.023	0.26	0.023	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.13	1.0	0.13	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.024	0.26	0.024	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.091	0.52	0.091	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.095	0.52	0.095	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.018	0.26	0.018	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.18	1.0	0.18	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.067	0.52	0.067	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.033	0.26	0.033	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.014	0.26	0.014	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.032	0.26	0.032	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.031	0.26	0.031	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.010	0.26	0.010	mg/kg dry	1	"	"	"	"	
Styrene	<0.041	0.26	0.041	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.019	0.26	0.019	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.036	0.26	0.036	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.10	2.1	0.10	mg/kg dry	1	"	"	"	"	
Toluene	<0.029	0.26	0.029	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.023	0.26	0.023	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.036	0.26	0.036	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.041	0.26	0.041	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.033	0.26	0.033	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.024	0.26	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	88.5			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	85.7			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	89.2			80-120 %		"	"	"	"	

SOC3-TT3-0.5' (0902852-04) Soil Sampled: 06/15/09 15:30 Received: 06/16/09 10:45										
1,1,1,2-Tetrachloroethane	<0.027	0.26	0.027	mg/kg dry	1	B9F1807	06/18/09	06/19/09	EPA 8260B	
1,1,1-Trichloroethane	<0.034	0.26	0.034	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.038	0.26	0.038	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.067	0.26	0.067	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.025	0.26	0.025	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.028	0.26	0.028	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.068	0.52	0.068	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.055	0.26	0.055	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902852 Date Reported: 06/30/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT3-0.5' (0902852-04) Soil Sampled: 06/15/09 15:30 Received: 06/16/09 10:45										
1,2,4-Trichlorobenzene	<0.066	0.52	0.066	mg/kg dry	1	B9F1807	06/18/09	06/19/09	EPA 8260B	
1,2,4-Trimethylbenzene	<0.021	0.26	0.021	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.059	0.52	0.059	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.039	0.26	0.039	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.028	0.26	0.028	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.029	0.26	0.029	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.015	0.26	0.015	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.029	0.26	0.029	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.018	0.26	0.018	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.019	0.26	0.019	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.070	0.52	0.070	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.12	2.1	0.12	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.019	0.26	0.019	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.030	0.26	0.030	mg/kg dry	1	"	"	"	"	
Acetone	<0.33	2.1	0.33	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.069	0.52	0.069	mg/kg dry	1	"	"	"	"	
Benzene	<0.015	0.26	0.015	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.020	0.26	0.020	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.036	0.26	0.036	mg/kg dry	1	"	"	"	"	
Bromoform	<0.082	0.52	0.082	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.14	0.52	0.14	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.028	0.26	0.028	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.026	0.26	0.026	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.075	0.26	0.075	mg/kg dry	1	"	"	"	"	
Chloroform	<0.043	0.26	0.043	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.042	0.26	0.042	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.047	0.26	0.047	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.024	0.26	0.024	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.033	0.26	0.033	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.047	0.26	0.047	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.085	0.52	0.085	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.045	0.26	0.045	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.049	0.52	0.049	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.023	0.26	0.023	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.13	1.0	0.13	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.024	0.26	0.024	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.091	0.52	0.091	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902852 Date Reported: 06/30/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT3-0.5' (0902852-04) Soil Sampled: 06/15/09 15:30 Received: 06/16/09 10:45										
Methyl isobutyl ketone	<0.095	0.52	0.095	mg/kg dry	1	B9F1807	06/18/09	06/19/09	EPA 8260B	
Methyl tert-butyl ether	<0.018	0.26	0.018	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.18	1.0	0.18	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.067	0.52	0.067	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.033	0.26	0.033	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.014	0.26	0.014	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.032	0.26	0.032	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.031	0.26	0.031	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.010	0.26	0.010	mg/kg dry	1	"	"	"	"	
Styrene	<0.041	0.26	0.041	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.019	0.26	0.019	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.036	0.26	0.036	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.10	2.1	0.10	mg/kg dry	1	"	"	"	"	
Toluene	<0.029	0.26	0.029	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.023	0.26	0.023	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.036	0.26	0.036	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.041	0.26	0.041	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.033	0.26	0.033	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.024	0.26	0.024	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	87.9			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	84.6			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	87.1			80-120 %		"	"	"	"	

SOC3-TT13-1' (0902852-05) Soil Sampled: 06/15/09 16:00 Received: 06/16/09 10:45										
1,1,1,2-Tetrachloroethane	<0.028	0.27	0.028	mg/kg dry	1	B9F1807	06/18/09	06/19/09	EPA 8260B	
1,1,1-Trichloroethane	<0.035	0.27	0.035	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.040	0.27	0.040	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.070	0.27	0.070	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.026	0.27	0.026	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.029	0.27	0.029	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.071	0.54	0.071	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.057	0.27	0.057	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.069	0.54	0.069	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.022	0.27	0.022	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.061	0.54	0.061	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.041	0.27	0.041	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.029	0.27	0.029	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902852 Date Reported: 06/30/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT13-1' (0902852-05) Soil Sampled: 06/15/09 16:00 Received: 06/16/09 10:45										
1,2-Dichloroethane	<0.027	0.27	0.027	mg/kg dry	1	B9F1807	06/18/09	06/19/09	EPA 8260B	
1,2-Dichloropropane	<0.030	0.27	0.030	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.016	0.27	0.016	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.030	0.27	0.030	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.018	0.27	0.018	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.019	0.27	0.019	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.073	0.54	0.073	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.13	2.2	0.13	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.019	0.27	0.019	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.031	0.27	0.031	mg/kg dry	1	"	"	"	"	
Acetone	<0.34	2.2	0.34	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.072	0.54	0.072	mg/kg dry	1	"	"	"	"	
Benzene	<0.016	0.27	0.016	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.020	0.27	0.020	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.038	0.27	0.038	mg/kg dry	1	"	"	"	"	
Bromoform	<0.086	0.54	0.086	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.15	0.54	0.15	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.029	0.27	0.029	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.027	0.27	0.027	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.078	0.27	0.078	mg/kg dry	1	"	"	"	"	
Chloroform	<0.045	0.27	0.045	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.044	0.27	0.044	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.049	0.27	0.049	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.025	0.27	0.025	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.034	0.27	0.034	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.049	0.27	0.049	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.088	0.54	0.088	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.047	0.27	0.047	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.052	0.54	0.052	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.024	0.27	0.024	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.14	1.1	0.14	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.025	0.27	0.025	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.095	0.54	0.095	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.099	0.54	0.099	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.018	0.27	0.018	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.18	1.1	0.18	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.070	0.54	0.070	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.034	0.27	0.034	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902852 Date Reported: 06/30/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-TT13-1' (0902852-05) Soil Sampled: 06/15/09 16:00 Received: 06/16/09 10:45										
n-Propylbenzene	<0.015	0.27	0.015	mg/kg dry	1	B9F1807	06/18/09	06/19/09	EPA 8260B	
o-Xylene	<0.033	0.27	0.033	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.032	0.27	0.032	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.011	0.27	0.011	mg/kg dry	1	"	"	"	"	
Styrene	<0.043	0.27	0.043	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.019	0.27	0.019	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.038	0.27	0.038	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.11	2.2	0.11	mg/kg dry	1	"	"	"	"	
Toluene	<0.030	0.27	0.030	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.024	0.27	0.024	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.038	0.27	0.038	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.043	0.27	0.043	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.034	0.27	0.034	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.025	0.27	0.025	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	90.8			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	85.9			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	89.2			80-120 %		"	"	"	"	

SOC3-DUP4 (0902852-07) Soil Sampled: 06/15/09 00:00 Received: 06/16/09 10:45										
1,1,1,2-Tetrachloroethane	<0.032	0.31	0.032	mg/kg dry	1	B9F1807	06/18/09	06/19/09	EPA 8260B	
1,1,1-Trichloroethane	<0.041	0.31	0.041	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.031	0.31	0.031	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.046	0.31	0.046	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.080	0.31	0.080	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.030	0.31	0.030	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.031	0.31	0.031	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.033	0.31	0.033	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.081	0.62	0.081	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.065	0.31	0.065	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.079	0.62	0.079	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.025	0.31	0.025	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.070	0.62	0.070	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.047	0.31	0.047	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.033	0.31	0.033	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.031	0.31	0.031	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.035	0.31	0.035	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.019	0.31	0.019	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.035	0.31	0.035	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.021	0.31	0.021	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902852 Date Reported: 06/30/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-DUP4 (0902852-07) Soil Sampled: 06/15/09 00:00 Received: 06/16/09 10:45										
1,4-Dichlorobenzene	<0.022	0.31	0.022	mg/kg dry	1	B9F1807	06/18/09	06/19/09	EPA 8260B	
2,2-Dichloropropane	<0.084	0.62	0.084	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.15	2.5	0.15	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.022	0.31	0.022	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.036	0.31	0.036	mg/kg dry	1	"	"	"	"	
Acetone	<0.40	2.5	0.40	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.083	0.62	0.083	mg/kg dry	1	"	"	"	"	
Benzene	<0.019	0.31	0.019	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.023	0.31	0.023	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.031	0.31	0.031	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.043	0.31	0.043	mg/kg dry	1	"	"	"	"	
Bromoform	<0.099	0.62	0.099	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.17	0.62	0.17	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.033	0.31	0.033	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.031	0.31	0.031	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.090	0.31	0.090	mg/kg dry	1	"	"	"	"	
Chloroform	<0.052	0.31	0.052	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.051	0.31	0.051	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.057	0.31	0.057	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.028	0.31	0.028	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.040	0.31	0.040	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.057	0.31	0.057	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.10	0.62	0.10	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.054	0.31	0.054	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.059	0.62	0.059	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.027	0.31	0.027	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.16	1.2	0.16	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.028	0.31	0.028	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.11	0.62	0.11	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.11	0.62	0.11	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.021	0.31	0.021	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.21	1.2	0.21	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.080	0.62	0.080	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.040	0.31	0.040	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.017	0.31	0.017	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.038	0.31	0.038	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.037	0.31	0.037	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.012	0.31	0.012	mg/kg dry	1	"	"	"	"	
Styrene	<0.049	0.31	0.049	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902852 Date Reported: 06/30/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-DUP4 (0902852-07) Soil Sampled: 06/15/09 00:00 Received: 06/16/09 10:45										
tert-Butylbenzene	<0.022	0.31	0.022	mg/kg dry	1	B9F1807	06/18/09	06/19/09	EPA 8260B	
Tetrachloroethene	<0.043	0.31	0.043	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.12	2.5	0.12	mg/kg dry	1	"	"	"	"	
Toluene	<0.035	0.31	0.035	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.027	0.31	0.027	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.043	0.31	0.043	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.049	0.31	0.049	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.040	0.31	0.040	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.028	0.31	0.028	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	90.4			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	84.9			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	88.1			80-120 %		"	"	"	"	

TT-FB-1 (0902852-08) Water Sampled: 06/15/09 17:30 Received: 06/16/09 10:45										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9F2305	06/23/09	06/23/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902852 Date Reported: 06/30/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TT-FB-1 (0902852-08) Water Sampled: 06/15/09 17:30 Received: 06/16/09 10:45										
Acetone	<2.8	20	2.8	ug/L	1	B9F2305	06/23/09	06/23/09	EPA 8260B	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppl	Work Order #: 0902852 Date Reported: 06/30/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TT-FB-1 (0902852-08) Water Sampled: 06/15/09 17:30 Received: 06/16/09 10:45										
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	B9F2305	06/23/09	06/23/09	EPA 8260B	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	109			76.4-125 %		"	"	"	"	
Surrogate: Dibromofluoromethane	103			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	101			80-125 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902852 Date Reported: 06/30/09
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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1806 - EPA 3050B

Blank (B9F1806-BLK1)

Prepared: 06/18/09 Analyzed: 06/24/09

Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							

LCS (B9F1806-BS1)

Prepared: 06/18/09 Analyzed: 06/24/09

Antimony	40.1	0.50	0.0055	mg/kg wet	39.9		101	80-120			
Arsenic	42.4	0.50	0.10	mg/kg wet	39.9		106	80-120			
Beryllium	4.34	0.25	0.011	mg/kg wet	3.99		109	80-120			
Cadmium	44.9	0.25	0.025	mg/kg wet	39.9		112	80-120			
Chromium	44.2	0.50	0.012	mg/kg wet	39.9		111	80-120			
Copper	42.7	1.0	0.070	mg/kg wet	39.9		107	80-120			
Lead	44.6	1.0	0.034	mg/kg wet	39.9		112	80-120			
Nickel	44.3	0.50	0.014	mg/kg wet	39.9		111	80-120			
Selenium	41.1	1.0	0.11	mg/kg wet	39.9		103	80-120			
Silver	3.98	0.25	0.0090	mg/kg wet	3.99		99.8	80-120			
Thallium	44.7	2.0	0.13	mg/kg wet	39.9		112	80-120			
Zinc	43.5	1.0	0.22	mg/kg wet	39.9		109	80-120			

LCS Dup (B9F1806-BSD1)

Prepared: 06/18/09 Analyzed: 06/24/09

Antimony	39.6	0.50	0.0055	mg/kg wet	39.9		99.3	80-120	1.28	20	
Arsenic	41.4	0.50	0.10	mg/kg wet	39.9		104	80-120	2.53	20	
Beryllium	4.22	0.25	0.011	mg/kg wet	3.99		106	80-120	2.71	20	
Cadmium	43.8	0.25	0.025	mg/kg wet	39.9		110	80-120	2.48	20	
Chromium	43.1	0.50	0.012	mg/kg wet	39.9		108	80-120	2.45	20	
Copper	42.1	1.0	0.070	mg/kg wet	39.9		105	80-120	1.56	20	
Lead	43.5	1.0	0.034	mg/kg wet	39.9		109	80-120	2.34	20	
Nickel	43.3	0.50	0.014	mg/kg wet	39.9		108	80-120	2.43	20	
Selenium	40.2	1.0	0.11	mg/kg wet	39.9		101	80-120	2.11	20	
Silver	3.86	0.25	0.0090	mg/kg wet	3.99		96.8	80-120	3.03	20	
Thallium	43.7	2.0	0.13	mg/kg wet	39.9		110	80-120	2.36	20	
Zinc	42.6	1.0	0.22	mg/kg wet	39.9		107	80-120	2.12	20	

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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1806 - EPA 3050B

Matrix Spike (B9F1806-MS1)

Source: 0902797-01

Prepared: 06/18/09

Analyzed: 06/24/09

Antimony	35.5	0.58	0.0064	mg/kg dry	46.4	<0.58	75.9	75-125			
Arsenic	44.3	0.58	0.12	mg/kg dry	46.4	6.43	81.5	75-125			
Beryllium	4.32	0.29	0.013	mg/kg dry	4.64	0.402	84.5	75-125			
Cadmium	39.1	0.29	0.029	mg/kg dry	46.4	<0.29	84.0	75-125			
Chromium	53.7	0.58	0.014	mg/kg dry	46.4	15.1	83.3	75-125			
Copper	48.2	1.2	0.081	mg/kg dry	46.4	8.87	84.8	75-125			
Lead	47.9	1.2	0.040	mg/kg dry	46.4	9.21	83.4	75-125			
Nickel	51.2	0.58	0.016	mg/kg dry	46.4	13.3	81.8	75-125			
Selenium	36.8	1.2	0.13	mg/kg dry	46.4	<1.2	79.3	75-125			
Silver	3.94	0.29	0.010	mg/kg dry	4.64	<0.29	84.9	75-125			
Thallium	37.0	2.3	0.15	mg/kg dry	46.4	<2.3	79.8	75-125			
Zinc	78.1	1.2	0.26	mg/kg dry	46.4	39.3	83.5	75-125			

Matrix Spike Dup (B9F1806-MSD1)

Source: 0902797-01

Prepared: 06/18/09

Analyzed: 06/24/09

Antimony	37.4	0.58	0.0064	mg/kg dry	46.4	<0.58	80.1	75-125	5.34	20	
Arsenic	45.9	0.58	0.12	mg/kg dry	46.4	6.43	85.0	75-125	3.58	20	
Beryllium	4.47	0.29	0.013	mg/kg dry	4.64	0.402	87.7	75-125	3.42	20	
Cadmium	40.6	0.29	0.029	mg/kg dry	46.4	<0.29	87.0	75-125	3.53	20	
Chromium	55.5	0.58	0.014	mg/kg dry	46.4	15.1	87.1	75-125	3.26	20	
Copper	49.7	1.2	0.081	mg/kg dry	46.4	8.87	88.1	75-125	3.07	20	
Lead	49.1	1.2	0.040	mg/kg dry	46.4	9.21	86.0	75-125	2.55	20	
Nickel	52.8	0.58	0.016	mg/kg dry	46.4	13.3	85.2	75-125	3.07	20	
Selenium	38.2	1.2	0.13	mg/kg dry	46.4	<1.2	82.2	75-125	3.63	20	
Silver	4.08	0.29	0.010	mg/kg dry	4.64	<0.29	87.8	75-125	3.45	20	
Thallium	38.6	2.3	0.15	mg/kg dry	46.4	<2.3	83.1	75-125	4.04	20	
Zinc	79.0	1.2	0.26	mg/kg dry	46.4	39.3	85.6	75-125	1.21	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902852 Date Reported: 06/30/09
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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F2418 - EPA 7471A											
Blank (B9F2418-BLK1)											
						Prepared: 06/24/09 Analyzed: 06/25/09					
Mercury	< 0.10	0.10	0.0031	mg/kg wet							
LCS (B9F2418-BS1)											
						Prepared: 06/24/09 Analyzed: 06/25/09					
Mercury	0.206	0.10	0.0031	mg/kg wet	0.200		103	80-120			
LCS Dup (B9F2418-BSD1)											
						Prepared: 06/24/09 Analyzed: 06/25/09					
Mercury	0.201	0.10	0.0031	mg/kg wet	0.200		100	80-120	2.46	20	
Matrix Spike (B9F2418-MS1)											
						Source: 0902850-01 Prepared: 06/24/09 Analyzed: 06/25/09					
Mercury	0.209	0.10	0.0031	mg/kg dry	0.200	<0.10	104	75-125			
Matrix Spike Dup (B9F2418-MSD1)											
						Source: 0902850-01 Prepared: 06/24/09 Analyzed: 06/25/09					
Mercury	0.192	0.10	0.0031	mg/kg dry	0.200	<0.10	96.0	75-125	8.48	20	

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PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1705 - General Preparation											
Duplicate (B9F1705-DUP1)		Source: 0902814-03			Prepared & Analyzed: 06/17/09						
% Solids	83.0			%		83.0			0.00	20	
Duplicate (B9F1705-DUP2)		Source: 0902852-07			Prepared & Analyzed: 06/17/09						
% Solids	81.0			%		81.0			0.00	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902852 Date Reported: 06/30/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2503 - EPA 3545 ASE Extraction

Blank (B9F2503-BLK1)

Prepared: 06/25/09 Analyzed: 06/27/09

4,4'-DDD	< 0.040	0.040	0.0012	mg/kg wet							
4,4'-DDE	< 0.040	0.040	0.0013	mg/kg wet							
4,4'-DDT	< 0.040	0.040	0.0015	mg/kg wet							V7
a-Chlordane	< 0.040	0.040	0.0014	mg/kg wet							
Aldrin	< 0.040	0.040	0.0012	mg/kg wet							
alpha-BHC	< 0.040	0.040	0.0015	mg/kg wet							
beta-BHC	< 0.040	0.040	0.0016	mg/kg wet							
delta-BHC	< 0.040	0.040	0.0017	mg/kg wet							
Dieldrin	< 0.040	0.040	0.0014	mg/kg wet							
Endosulfan I	< 0.040	0.040	0.0015	mg/kg wet							
Endosulfan II	< 0.040	0.040	0.0015	mg/kg wet							
Endosulfan sulfate	< 0.040	0.040	0.0015	mg/kg wet							
Endrin	< 0.040	0.040	0.0014	mg/kg wet							
Endrin aldehyde	< 0.040	0.040	0.0015	mg/kg wet							
Endrin ketone	< 0.040	0.040	0.0014	mg/kg wet							
gamma-BHC (Lindane)	< 0.040	0.040	0.0014	mg/kg wet							
gamma-Chlordane	< 0.040	0.040	0.0014	mg/kg wet							
Heptachlor	< 0.040	0.040	0.0015	mg/kg wet							
Heptachlor epoxide	< 0.040	0.040	0.0015	mg/kg wet							
Methoxychlor	< 0.040	0.040	0.0015	mg/kg wet							
Toxaphene	< 0.080	0.080	0.0061	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0627			mg/kg wet	0.0667		94.0	83.7-130			
Surrogate: Tetrachloro-meta-xylene	0.0600			mg/kg wet	0.0667		90.0	65.2-135			

LCS (B9F2503-BS1)

Prepared: 06/25/09 Analyzed: 06/27/09

4,4'-DDD	0.0757	0.040	0.0012	mg/kg wet	0.0833		90.8	70-130			
4,4'-DDE	0.0747	0.040	0.0013	mg/kg wet	0.0833		89.6	70-130			
4,4'-DDT	0.0873	0.040	0.0015	mg/kg wet	0.0833		105	70-130			V7
a-Chlordane	0.0740	0.040	0.0014	mg/kg wet	0.0833		88.8	70-130			
Aldrin	0.0670	0.040	0.0012	mg/kg wet	0.0833		80.4	70-130			
alpha-BHC	0.0740	0.040	0.0015	mg/kg wet	0.0833		88.8	70-130			
beta-BHC	0.0713	0.040	0.0016	mg/kg wet	0.0833		85.6	70-130			
delta-BHC	0.0750	0.040	0.0017	mg/kg wet	0.0833		90.0	70-130			
Dieldrin	0.0740	0.040	0.0014	mg/kg wet	0.0833		88.8	70-130			
Endosulfan I	0.0740	0.040	0.0015	mg/kg wet	0.0833		88.8	70-130			
Endosulfan II	0.0740	0.040	0.0015	mg/kg wet	0.0833		88.8	70-130			
Endosulfan sulfate	0.0760	0.040	0.0015	mg/kg wet	0.0833		91.2	70-130			
Endrin	0.0787	0.040	0.0014	mg/kg wet	0.0833		94.4	70-130			
Endrin aldehyde	0.0787	0.040	0.0015	mg/kg wet	0.0833		94.4	70-130			
Endrin ketone	0.0763	0.040	0.0014	mg/kg wet	0.0833		91.6	70-130			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902852 Date Reported: 06/30/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2503 - EPA 3545 ASE Extraction

LCS (B9F2503-BS1)

Prepared: 06/25/09 Analyzed: 06/27/09

gamma-BHC (Lindane)	0.0750	0.040	0.0014	mg/kg wet	0.0833		90.0	70-130			
gamma-Chlordane	0.0720	0.040	0.0014	mg/kg wet	0.0833		86.4	70-130			
Heptachlor	0.0743	0.040	0.0015	mg/kg wet	0.0833		89.2	70-130			
Heptachlor epoxide	0.0743	0.040	0.0015	mg/kg wet	0.0833		89.2	70-130			
Methoxychlor	0.0853	0.040	0.0015	mg/kg wet	0.0833		102	70-130			
Surrogate: Decachlorobiphenyl	0.0613			mg/kg wet	0.0667		92.0	83.7-130			
Surrogate: Tetrachloro-meta-xylene	0.0540			mg/kg wet	0.0667		81.0	65.2-135			

Matrix Spike (B9F2503-MS1)

Source: 0902852-02

Prepared: 06/25/09 Analyzed: 06/27/09

4,4'-DDD	0.0772	0.041	0.0012	mg/kg dry	0.0858	<0.041	90.0	70-130			
4,4'-DDE	0.0834	0.041	0.0013	mg/kg dry	0.0858	<0.041	97.2	70-130			
4,4'-DDT	0.103	0.041	0.0015	mg/kg dry	0.0858	<0.041	120	70-130			V7
a-Chlordane	0.0817	0.041	0.0014	mg/kg dry	0.0858	<0.041	95.2	70-130			
Aldrin	0.0800	0.041	0.0012	mg/kg dry	0.0858	<0.041	93.2	70-130			
alpha-BHC	0.0796	0.041	0.0015	mg/kg dry	0.0858	<0.041	92.8	70-130			
beta-BHC	0.0796	0.041	0.0016	mg/kg dry	0.0858	<0.041	92.8	70-130			
delta-BHC	0.0810	0.041	0.0018	mg/kg dry	0.0858	<0.041	94.4	70-130			
Dieldrin	0.0817	0.041	0.0014	mg/kg dry	0.0858	<0.041	95.2	70-130			
Endosulfan I	0.0817	0.041	0.0015	mg/kg dry	0.0858	<0.041	95.2	70-130			
Endosulfan II	0.0806	0.041	0.0015	mg/kg dry	0.0858	<0.041	94.0	70-130			
Endosulfan sulfate	0.0831	0.041	0.0015	mg/kg dry	0.0858	<0.041	96.8	70-130			
Endrin	0.0896	0.041	0.0014	mg/kg dry	0.0858	<0.041	104	70-130			
Endrin aldehyde	0.0779	0.041	0.0015	mg/kg dry	0.0858	<0.041	90.8	70-130			
Endrin ketone	0.0837	0.041	0.0014	mg/kg dry	0.0858	<0.041	97.6	70-130			
gamma-BHC (Lindane)	0.0806	0.041	0.0014	mg/kg dry	0.0858	<0.041	94.0	70-130			
gamma-Chlordane	0.0800	0.041	0.0014	mg/kg dry	0.0858	<0.041	93.2	70-130			
Heptachlor	0.0851	0.041	0.0015	mg/kg dry	0.0858	<0.041	99.2	70-130			
Heptachlor epoxide	0.0810	0.041	0.0015	mg/kg dry	0.0858	<0.041	94.4	70-130			
Methoxychlor	0.0999	0.041	0.0015	mg/kg dry	0.0858	<0.041	116	70-130			
Surrogate: Decachlorobiphenyl	0.0690			mg/kg dry	0.0686		100	83.7-130			
Surrogate: Tetrachloro-meta-xylene	0.0631			mg/kg dry	0.0686		92.0	65.2-135			

Matrix Spike Dup (B9F2503-MSD1)

Source: 0902852-02

Prepared: 06/25/09 Analyzed: 06/27/09

4,4'-DDD	0.0841	0.041	0.0012	mg/kg dry	0.0862	<0.041	97.6	70-130	8.57	17.3	
4,4'-DDE	0.0903	0.041	0.0013	mg/kg dry	0.0862	<0.041	105	70-130	7.99	18.9	
4,4'-DDT	0.112	0.041	0.0015	mg/kg dry	0.0862	<0.041	130	70-130	8.13	37.6	V7
a-Chlordane	0.0890	0.041	0.0014	mg/kg dry	0.0862	<0.041	103	70-130	8.53	17.2	
Aldrin	0.0879	0.041	0.0012	mg/kg dry	0.0862	<0.041	102	70-130	9.48	26.6	
alpha-BHC	0.0883	0.041	0.0015	mg/kg dry	0.0862	<0.041	102	70-130	10.3	27.3	
beta-BHC	0.0862	0.041	0.0016	mg/kg dry	0.0862	<0.041	100	70-130	7.94	24.7	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902852 Date Reported: 06/30/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F2503 - EPA 3545 ASE Extraction											
Matrix Spike Dup (B9F2503-MSD1)			Source: 0902852-02			Prepared: 06/25/09		Analyzed: 06/27/09			
delta-BHC	0.0896	0.041	0.0018	mg/kg dry	0.0862	<0.041	104	70-130	10.1	25.9	
Dieldrin	0.0890	0.041	0.0014	mg/kg dry	0.0862	<0.041	103	70-130	8.53	24.6	
Endosulfan I	0.0890	0.041	0.0015	mg/kg dry	0.0862	<0.041	103	70-130	8.53	18.2	
Endosulfan II	0.0879	0.041	0.0015	mg/kg dry	0.0862	<0.041	102	70-130	8.63	16.6	
Endosulfan sulfate	0.0890	0.041	0.0015	mg/kg dry	0.0862	<0.041	103	70-130	6.87	16.5	
Endrin	0.0972	0.041	0.0014	mg/kg dry	0.0862	<0.041	113	70-130	8.20	18.9	
Endrin aldehyde	0.0831	0.041	0.0015	mg/kg dry	0.0862	<0.041	96.4	70-130	6.45	17.9	
Endrin ketone	0.0900	0.041	0.0014	mg/kg dry	0.0862	<0.041	104	70-130	7.20	15.7	
gamma-BHC (Lindane)	0.0893	0.041	0.0014	mg/kg dry	0.0862	<0.041	104	70-130	10.2	27	
gamma-Chlordane	0.0869	0.041	0.0014	mg/kg dry	0.0862	<0.041	101	70-130	8.30	20	
Heptachlor	0.0948	0.041	0.0015	mg/kg dry	0.0862	<0.041	110	70-130	10.8	20.3	
Heptachlor epoxide	0.0883	0.041	0.0015	mg/kg dry	0.0862	<0.041	102	70-130	8.60	26.2	
Methoxychlor	0.107	0.041	0.0015	mg/kg dry	0.0862	<0.041	124	70-130	6.47	20.2	
Surrogate: Decachlorobiphenyl	0.0731			mg/kg dry	0.0690		106	83.7-130			
Surrogate: Tetrachloro-meta-xylene	0.0690			mg/kg dry	0.0690		100	65.2-135			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902852 Date Reported: 06/30/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1702 - EPA 3510C (Sep Funnel)

Blank (B9F1702-BLK1)

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	< 0.19	10	0.19	ug/L							
1,2-Dichlorobenzene	< 0.23	10	0.23	ug/L							
1,2-Diphenylhydrazine as Azobenzene	< 0.24	10	0.24	ug/L							
1,3-Dichlorobenzene	< 0.21	10	0.21	ug/L							
1,4-Dichlorobenzene	< 0.22	10	0.22	ug/L							
2,3,4,6-Tetrachlorophenol	< 0.61	10	0.61	ug/L							
2,4,5-Trichlorophenol	< 0.80	10	0.80	ug/L							
2,4,6-Trichlorophenol	< 0.48	10	0.48	ug/L							
2,4-Dichlorophenol	< 0.47	10	0.47	ug/L							
2,4-Dimethylphenol	< 1.6	10	1.6	ug/L							
2,4-Dinitrophenol	< 1.0	10	1.0	ug/L							
2,4-Dinitrotoluene	< 0.33	10	0.33	ug/L							
2,6-Dichlorophenol	< 0.48	10	0.48	ug/L							
2,6-Dinitrotoluene	< 0.36	10	0.36	ug/L							
2-Chloronaphthalene	< 0.28	10	0.28	ug/L							
2-Chlorophenol	< 0.45	10	0.45	ug/L							
2-Methylnaphthalene	< 0.66	10	0.66	ug/L							
2-Methylphenol	< 0.63	10	0.63	ug/L							
2-Nitroaniline	< 0.72	10	0.72	ug/L							
2-Nitrophenol	< 0.90	10	0.90	ug/L							
3,3'-Dichlorobenzidine	< 7.3	25	7.3	ug/L							
3-Nitroaniline	< 1.2	10	1.2	ug/L							
4,6-Dinitro-2-methylphenol	< 0.65	10	0.65	ug/L							
4-Bromophenyl phenyl ether	< 0.17	10	0.17	ug/L							
4-Chloro-3-methylphenol	< 0.55	10	0.55	ug/L							
4-Chloroaniline	< 2.3	10	2.3	ug/L							
4-Chlorophenyl phenyl ether	< 0.25	10	0.25	ug/L							
4-Methylphenol	< 0.79	10	0.79	ug/L							
4-Nitroaniline	< 0.59	10	0.59	ug/L							
4-Nitrophenol	< 1.2	10	1.2	ug/L							
Acenaphthene	< 0.36	10	0.36	ug/L							
Acenaphthylene	< 0.25	10	0.25	ug/L							
Aniline	< 2.2	10	2.2	ug/L							
Anthracene	< 0.37	10	0.37	ug/L							
Benzidine	< 18	100	18	ug/L							
Benzo (a) anthracene	< 0.37	10	0.37	ug/L							
Benzo (a) pyrene	< 0.29	10	0.29	ug/L							
Benzo (b) fluoranthene	< 0.22	10	0.22	ug/L							
Benzo (g,h,i) perylene	< 0.26	10	0.26	ug/L							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902852 Date Reported: 06/30/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1702 - EPA 3510C (Sep Funnel)

Blank (B9F1702-BLK1)

Prepared: 06/17/09 Analyzed: 06/18/09

Benzo (k) fluoranthene	< 0.31	10	0.31	ug/L							
Benzoic acid	< 1.2	10	1.2	ug/L							
Benzyl alcohol	< 0.54	10	0.54	ug/L							
Bis(2-chloroethoxy)methane	< 0.18	10	0.18	ug/L							
Bis(2-chloroethyl)ether	< 0.17	10	0.17	ug/L							
Bis(2-chloroisopropyl)ether	< 0.19	10	0.19	ug/L							
Bis(2-ethylhexyl)phthalate	< 0.43	10	0.43	ug/L							
Butyl benzyl phthalate	< 0.37	10	0.37	ug/L							
Carbazole	< 0.26	10	0.26	ug/L							
Chrysene	< 0.27	10	0.27	ug/L							
Dibenz (a,h) anthracene	< 0.23	10	0.23	ug/L							
Dibenzofuran	< 0.39	10	0.39	ug/L							
Diethyl phthalate	< 0.23	10	0.23	ug/L							
Dimethyl phthalate	< 0.24	10	0.24	ug/L							
Di-n-butyl phthalate	< 0.28	10	0.28	ug/L							
Di-n-octyl phthalate	< 0.38	10	0.38	ug/L							
Fluoranthene	< 0.39	10	0.39	ug/L							
Fluorene	< 0.40	10	0.40	ug/L							
Hexachlorobenzene	< 0.20	10	0.20	ug/L							
Hexachlorobutadiene	< 0.26	10	0.26	ug/L							
Hexachlorocyclopentadiene	< 0.31	10	0.31	ug/L							
Hexachloroethane	< 0.31	10	0.31	ug/L							
Indeno (1,2,3-cd) pyrene	< 0.31	10	0.31	ug/L							
Isophorone	< 0.23	10	0.23	ug/L							
Naphthalene	< 0.37	10	0.37	ug/L							
Nitrobenzene	< 0.39	10	0.39	ug/L							
N-Nitrosodimethylamine	< 0.95	10	0.95	ug/L							
N-Nitrosodi-n-propylamine	< 0.21	10	0.21	ug/L							
N-Nitrosodiphenylamine	< 0.23	10	0.23	ug/L							
Pentachlorophenol	< 0.59	10	0.59	ug/L							
Phenanthrene	< 0.39	10	0.39	ug/L							
Phenol	< 0.57	10	0.57	ug/L							
Pyrene	< 0.47	10	0.47	ug/L							
Surrogate: 2,4,6-Tribromophenol	77.8			ug/L	100		77.8	48.5-114			
Surrogate: 2-Fluorobiphenyl	75.6			ug/L	100		75.6	41.7-98.4			
Surrogate: 2-Fluorophenol	55.9			ug/L	100		55.9	30-93.5			
Surrogate: Nitrobenzene-d5	75.2			ug/L	100		75.2	47.4-97.8			
Surrogate: Phenol-d6	47.2			ug/L	100		47.2	30-91.5			
Surrogate: Terphenyl-d14	87.7			ug/L	100		87.7	30-108			

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05SOC 350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902852
 Date Reported: 06/30/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1702 - EPA 3510C (Sep Funnel)

LCS (B9F1702-BS1)

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	61.8	10	0.19	ug/L	100		61.8	48.2-88.3			
1,4-Dichlorobenzene	53.4	10	0.22	ug/L	100		53.4	42.8-82.2			
2,4-Dinitrotoluene	76.7	10	0.33	ug/L	100		76.7	64.6-98.9			
2-Chlorophenol	70.2	10	0.45	ug/L	100		70.2	56.5-88.1			
4-Chloro-3-methylphenol	78.4	10	0.55	ug/L	100		78.4	63.4-95.2			
4-Nitrophenol	56.6	10	1.2	ug/L	100		56.6	51.3-90.6			
Anthracene	89.9	10	0.37	ug/L	100		89.9	66.7-92.8			
Benzo (a) anthracene	83.1	10	0.37	ug/L	100		83.1	72.7-97.2			
Benzo (a) pyrene	80.3	10	0.29	ug/L	100		80.3	66.4-101			
Chrysene	81.3	10	0.27	ug/L	100		81.3	71.5-98.1			
Fluoranthene	89.7	10	0.39	ug/L	100		89.7	68.8-94			
Fluorene	87.1	10	0.40	ug/L	100		87.1	64.2-94.4			
N-Nitrosodi-n-propylamine	76.3	10	0.21	ug/L	100		76.3	63.6-92.8			
Pentachlorophenol	72.9	10	0.59	ug/L	100		72.9	60.2-101			
Phenanthrene	86.1	10	0.39	ug/L	100		86.1	68.1-94.8			
Phenol	45.4	10	0.57	ug/L	100		45.4	39.6-71			
Surrogate: 2,4,6-Tribromophenol	77.0			ug/L	100		77.0	48.5-114			
Surrogate: 2-Fluorobiphenyl	72.7			ug/L	100		72.7	41.7-98.4			
Surrogate: 2-Fluorophenol	58.2			ug/L	100		58.2	30-93.5			
Surrogate: Nitrobenzene-d5	71.4			ug/L	100		71.4	47.4-97.8			
Surrogate: Phenol-d6	50.7			ug/L	100		50.7	30-91.5			
Surrogate: Terphenyl-d14	72.0			ug/L	100		72.0	30-108			

Matrix Spike (B9F1702-MS1)

Source: 0902812-03

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	50.3	9.3	0.18	ug/L	92.6	<9.3	54.4	43.8-87.4			
1,4-Dichlorobenzene	47.7	9.3	0.20	ug/L	92.6	<9.3	51.5	43.7-78.7			
2,4-Dinitrotoluene	61.6	9.3	0.31	ug/L	92.6	<9.3	66.5	52.8-100			
2-Chlorophenol	33.7	9.3	0.42	ug/L	92.6	<9.3	36.4	30.1-95			
4-Chloro-3-methylphenol	40.4	9.3	0.51	ug/L	92.6	<9.3	43.6	44.8-98.7			M2
4-Nitrophenol	27.9	9.3	1.1	ug/L	92.6	<9.3	30.1	32.5-99.6			M2
Anthracene	57.3	9.3	0.34	ug/L	92.6	<9.3	61.9	44.8-97.6			
Benzo (a) anthracene	50.8	9.3	0.34	ug/L	92.6	<9.3	54.8	30-115			
Benzo (a) pyrene	46.7	9.3	0.27	ug/L	92.6	<9.3	50.4	30-110			
Chrysene	48.2	9.3	0.25	ug/L	92.6	<9.3	52.1	30-115			
Fluoranthene	58.3	9.3	0.36	ug/L	92.6	<9.3	63.0	37.4-103			
Fluorene	59.0	9.3	0.37	ug/L	92.6	<9.3	63.8	49.6-92.1			
N-Nitrosodi-n-propylamine	61.9	9.3	0.19	ug/L	92.6	<9.3	66.8	44.9-100			
Pentachlorophenol	43.2	9.3	0.55	ug/L	92.6	<9.3	46.6	31.2-123			
Phenanthrene	57.5	9.3	0.36	ug/L	92.6	<9.3	62.1	47-99.1			
Phenol	20.1	9.3	0.53	ug/L	92.6	<9.3	21.7	30-79.5			M2

Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Project: 23/19-0B05.07
Project Number: 23/19-0B05SOC 350
Project Manager: Ms. Kelly Nepl

Work Order #: 0902852
Date Reported: 06/30/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1702 - EPA 3510C (Sep Funnel)

Matrix Spike (B9F1702-MS1)

Source: 0902812-03

Prepared: 06/17/09 Analyzed: 06/18/09

Surrogate: 2,4,6-Tribromophenol	39.2			ug/L	92.6		42.4	48.5-114			S-02
Surrogate: 2-Fluorobiphenyl	47.5			ug/L	92.6		51.3	41.7-98.4			
Surrogate: 2-Fluorophenol	25.3			ug/L	92.6		27.3	30-93.5			S-02
Surrogate: Nitrobenzene-d5	59.7			ug/L	92.6		64.5	47.4-97.8			
Surrogate: Phenol-d6	21.9			ug/L	92.6		23.7	30-91.5			S-02
Surrogate: Terphenyl-d14	39.1			ug/L	92.6		42.2	30-108			

Matrix Spike Dup (B9F1702-MSD1)

Source: 0902812-03

Prepared: 06/17/09 Analyzed: 06/18/09

1,2,4-Trichlorobenzene	55.8	9.3	0.18	ug/L	92.6	<9.3	60.3	43.8-87.4	10.4	28.2	
1,4-Dichlorobenzene	52.3	9.3	0.20	ug/L	92.6	<9.3	56.5	43.7-78.7	9.34	25	
2,4-Dinitrotoluene	63.6	9.3	0.31	ug/L	92.6	<9.3	68.7	52.8-100	3.28	15	
2-Chlorophenol	31.9	9.3	0.42	ug/L	92.6	<9.3	34.5	30.1-95	5.46	27.5	
4-Chloro-3-methylphenol	36.5	9.3	0.51	ug/L	92.6	<9.3	39.4	44.8-98.7	10.1	27.6	M2
4-Nitrophenol	26.8	9.3	1.1	ug/L	92.6	<9.3	28.9	32.5-99.6	3.99	35	M2
Anthracene	57.2	9.3	0.34	ug/L	92.6	<9.3	61.8	44.8-97.6	0.154	21	
Benzo (a) anthracene	49.1	9.3	0.34	ug/L	92.6	<9.3	53.0	30-115	3.36	33.7	
Benzo (a) pyrene	43.9	9.3	0.27	ug/L	92.6	<9.3	47.5	30-110	6.00	33.8	
Chrysene	46.3	9.3	0.25	ug/L	92.6	<9.3	50.0	30-115	4.05	35.1	
Fluoranthene	58.7	9.3	0.36	ug/L	92.6	<9.3	63.4	37.4-103	0.555	29.1	
Fluorene	61.4	9.3	0.37	ug/L	92.6	<9.3	66.4	49.6-92.1	4.00	19.7	
N-Nitrosodi-n-propylamine	64.2	9.3	0.19	ug/L	92.6	<9.3	69.4	44.9-100	3.71	18.6	
Pentachlorophenol	34.8	9.3	0.55	ug/L	92.6	<9.3	37.6	31.2-123	21.4	32.2	
Phenanthrene	59.0	9.3	0.36	ug/L	92.6	<9.3	63.7	47-99.1	2.59	18.4	
Phenol	21.0	9.3	0.53	ug/L	92.6	<9.3	22.7	30-79.5	4.50	33.6	M2
Surrogate: 2,4,6-Tribromophenol	35.3			ug/L	92.6		38.1	48.5-114			S-02
Surrogate: 2-Fluorobiphenyl	54.2			ug/L	92.6		58.5	41.7-98.4			
Surrogate: 2-Fluorophenol	26.3			ug/L	92.6		28.4	30-93.5			S-02
Surrogate: Nitrobenzene-d5	62.8			ug/L	92.6		67.8	47.4-97.8			
Surrogate: Phenol-d6	23.6			ug/L	92.6		25.5	30-91.5			S-02
Surrogate: Terphenyl-d14	38.4			ug/L	92.6		41.5	30-108			

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05S0C 350
 Project Manager: Ms. Kelly Neppl

Work Order #: 0902852
 Date Reported: 06/30/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1801 - EPA 3545 ASE Extraction

Blank (B9F1801-BLK1)

Prepared: 06/18/09 Analyzed: 06/19/09

1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3'-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902852 Date Reported: 06/30/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1801 - EPA 3545 ASE Extraction

Blank (B9F1801-BLK1)

Prepared: 06/18/09 Analyzed: 06/19/09

Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	3.93			mg/kg wet	6.67		58.9	47.2-108			
Surrogate: 2-Fluorobiphenyl	3.92			mg/kg wet	6.67		58.8	53.2-85.1			
Surrogate: 2-Fluorophenol	3.71			mg/kg wet	6.67		55.7	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.07			mg/kg wet	6.67		61.0	49.1-86.9			
Surrogate: Phenol-d6	3.77			mg/kg wet	6.67		56.5	47.6-99.6			
Surrogate: Terphenyl-d14	3.98			mg/kg wet	6.67		59.7	43.6-112			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902852 Date Reported: 06/30/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1801 - EPA 3545 ASE Extraction

LCS (B9F1801-BS1)

Prepared: 06/18/09 Analyzed: 06/19/09

1,2,4-Trichlorobenzene	4.52	0.33	0.027	mg/kg wet	6.67		67.8	50.7-82.1			
1,4-Dichlorobenzene	4.01	0.33	0.024	mg/kg wet	6.67		60.2	44-77			
2,4-Dinitrotoluene	4.81	0.33	0.021	mg/kg wet	6.67		72.1	56.7-81.7			
2-Chlorophenol	4.62	0.67	0.038	mg/kg wet	6.67		69.3	52.3-88.2			
4-Chloro-3-methylphenol	4.86	0.67	0.040	mg/kg wet	6.67		72.9	53.4-87			
4-Nitrophenol	5.34	0.67	0.099	mg/kg wet	6.67		80.2	55.7-87.1			
Anthracene	5.38	0.33	0.025	mg/kg wet	6.67		80.6	65.3-92			
Benzo (a) anthracene	5.50	0.33	0.027	mg/kg wet	6.67		82.4	69-95.3			
Benzo (a) pyrene	5.44	0.33	0.027	mg/kg wet	6.67		81.7	68.5-98.2			
Chrysene	5.45	0.33	0.033	mg/kg wet	6.67		81.8	68.6-94.2			
Fluoranthene	5.50	0.33	0.024	mg/kg wet	6.67		82.4	64.3-94.6			
Fluorene	5.16	0.33	0.018	mg/kg wet	6.67		77.4	61.9-89.4			
N-Nitrosodi-n-propylamine	4.98	0.33	0.025	mg/kg wet	6.67		74.7	55.5-91.1			
Pentachlorophenol	4.90	0.67	0.096	mg/kg wet	6.67		73.5	54.7-74.6			
Phenanthrene	5.31	0.33	0.019	mg/kg wet	6.67		79.6	64.3-90.9			
Phenol	4.60	0.67	0.057	mg/kg wet	6.67		68.9	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	4.96			mg/kg wet	6.67		74.3	47.2-108			
Surrogate: 2-Fluorobiphenyl	4.64			mg/kg wet	6.67		69.6	53.2-85.1			
Surrogate: 2-Fluorophenol	4.56			mg/kg wet	6.67		68.4	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.74			mg/kg wet	6.67		71.1	49.1-86.9			
Surrogate: Phenol-d6	4.94			mg/kg wet	6.67		74.2	47.6-99.6			
Surrogate: Terphenyl-d14	4.77			mg/kg wet	6.67		71.5	43.6-112			

Matrix Spike (B9F1801-MS1)

Source: 0902817-18

Prepared: 06/18/09 Analyzed: 06/19/09

1,2,4-Trichlorobenzene	4.33	0.42	0.034	mg/kg dry	8.44	<0.42	51.3	51-77.5			
1,4-Dichlorobenzene	4.01	0.42	0.030	mg/kg dry	8.44	<0.42	47.5	41.7-73.4			
2,4-Dinitrotoluene	4.20	0.42	0.027	mg/kg dry	8.44	<0.42	49.8	50-84.8			M2
2-Chlorophenol	4.25	0.85	0.048	mg/kg dry	8.44	<0.85	50.4	47.8-90.8			
4-Chloro-3-methylphenol	4.33	0.85	0.051	mg/kg dry	8.44	<0.85	51.3	48.4-95.1			
4-Nitrophenol	5.30	0.85	0.13	mg/kg dry	8.44	<0.85	62.8	44-105			
Anthracene	4.79	0.42	0.032	mg/kg dry	8.44	<0.42	56.7	60.2-97.3			M2
Benzo (a) anthracene	4.69	0.42	0.034	mg/kg dry	8.44	<0.42	55.5	59.8-102			M2
Benzo (a) pyrene	4.53	0.42	0.034	mg/kg dry	8.44	<0.42	53.6	57.2-105			M2
Chrysene	4.64	0.42	0.042	mg/kg dry	8.44	<0.42	55.0	59.2-102			M2
Fluoranthene	4.81	0.42	0.030	mg/kg dry	8.44	<0.42	57.0	50.4-108			
Fluorene	4.83	0.42	0.023	mg/kg dry	8.44	<0.42	57.2	57.8-94.4			M2
N-Nitrosodi-n-propylamine	4.75	0.42	0.032	mg/kg dry	8.44	<0.42	56.3	46.2-96.2			
Pentachlorophenol	4.48	0.85	0.12	mg/kg dry	8.44	<0.85	53.0	53.6-80.4			M2
Phenanthrene	4.77	0.42	0.024	mg/kg dry	8.44	<0.42	56.5	58.4-97.5			M2
Phenol	4.29	0.85	0.072	mg/kg dry	8.44	<0.85	50.8	44-88.5			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902852 Date Reported: 06/30/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1801 - EPA 3545 ASE Extraction

Matrix Spike (B9F1801-MS1)

Source: 0902817-18

Prepared: 06/18/09 Analyzed: 06/19/09

Surrogate: 2,4,6-Tribromophenol	4.07			mg/kg dry	8.44		48.2	47.2-108			
Surrogate: 2-Fluorobiphenyl	4.37			mg/kg dry	8.44		51.8	53.2-85.1			S-02
Surrogate: 2-Fluorophenol	4.09			mg/kg dry	8.44		48.4	48.5-90.1			S-02
Surrogate: Nitrobenzene-d5	4.71			mg/kg dry	8.44		55.8	49.1-86.9			
Surrogate: Phenol-d6	4.51			mg/kg dry	8.44		53.4	47.6-99.6			
Surrogate: Terphenyl-d14	4.08			mg/kg dry	8.44		48.3	43.6-112			

Matrix Spike Dup (B9F1801-MSD1)

Source: 0902817-18

Prepared: 06/18/09 Analyzed: 06/19/09

1,2,4-Trichlorobenzene	5.36	0.42	0.034	mg/kg dry	8.44	<0.42	63.5	51-77.5	21.2	15.7	R5
1,4-Dichlorobenzene	4.88	0.42	0.030	mg/kg dry	8.44	<0.42	57.8	41.7-73.4	19.6	14.7	R5
2,4-Dinitrotoluene	5.55	0.42	0.027	mg/kg dry	8.44	<0.42	65.8	50-84.8	27.7	20.5	R2
2-Chlorophenol	5.29	0.85	0.048	mg/kg dry	8.44	<0.85	62.7	47.8-90.8	21.7	19.8	R5
4-Chloro-3-methylphenol	5.66	0.85	0.051	mg/kg dry	8.44	<0.85	67.1	48.4-95.1	26.7	18.7	R5
4-Nitrophenol	7.08	0.85	0.13	mg/kg dry	8.44	<0.85	83.9	44-105	28.8	30.9	
Anthracene	6.26	0.42	0.032	mg/kg dry	8.44	<0.42	74.1	60.2-97.3	26.7	15.1	R2
Benzo (a) anthracene	6.28	0.42	0.034	mg/kg dry	8.44	<0.42	74.3	59.8-102	29.0	19.6	R2
Benzo (a) pyrene	6.00	0.42	0.034	mg/kg dry	8.44	<0.42	71.1	57.2-105	28.0	19.4	R2
Chrysene	6.34	0.42	0.042	mg/kg dry	8.44	<0.42	75.1	59.2-102	31.0	19.6	R2
Fluoranthene	6.26	0.42	0.030	mg/kg dry	8.44	<0.42	74.1	50.4-108	26.2	21	R5
Fluorene	6.10	0.42	0.023	mg/kg dry	8.44	<0.42	72.3	57.8-94.4	23.3	15.8	R2
N-Nitrosodi-n-propylamine	6.07	0.42	0.032	mg/kg dry	8.44	<0.42	71.9	46.2-96.2	24.4	17.1	R5
Pentachlorophenol	6.17	0.85	0.12	mg/kg dry	8.44	<0.85	73.1	53.6-80.4	31.8	22.4	R2
Phenanthrene	6.18	0.42	0.024	mg/kg dry	8.44	<0.42	73.2	58.4-97.5	25.7	14.3	R2
Phenol	5.43	0.85	0.072	mg/kg dry	8.44	<0.85	64.3	44-88.5	23.6	21.5	R5
Surrogate: 2,4,6-Tribromophenol	5.47			mg/kg dry	8.44		64.8	47.2-108			
Surrogate: 2-Fluorobiphenyl	5.67			mg/kg dry	8.44		67.1	53.2-85.1			
Surrogate: 2-Fluorophenol	5.12			mg/kg dry	8.44		60.7	48.5-90.1			
Surrogate: Nitrobenzene-d5	5.83			mg/kg dry	8.44		69.0	49.1-86.9			
Surrogate: Phenol-d6	5.87			mg/kg dry	8.44		69.5	47.6-99.6			
Surrogate: Terphenyl-d14	5.66			mg/kg dry	8.44		67.0	43.6-112			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppl	Work Order #: 0902852 Date Reported: 06/30/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1903 - EPA 3545 ASE Extraction

Blank (B9F1903-BLK1)

Prepared: 06/19/09 Analyzed: 06/22/09

1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3'-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902852 Date Reported: 06/30/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1903 - EPA 3545 ASE Extraction

Blank (B9F1903-BLK1)

Prepared: 06/19/09 Analyzed: 06/22/09

Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	4.25			mg/kg wet	6.67		63.8	47.2-108			
Surrogate: 2-Fluorobiphenyl	4.01			mg/kg wet	6.67		60.1	53.2-85.1			
Surrogate: 2-Fluorophenol	3.87			mg/kg wet	6.67		58.0	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.08			mg/kg wet	6.67		61.3	49.1-86.9			
Surrogate: Phenol-d6	4.07			mg/kg wet	6.67		61.1	47.6-99.6			
Surrogate: Terphenyl-d14	4.36			mg/kg wet	6.67		65.4	43.6-112			

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05SOC 350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902852
 Date Reported: 06/30/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1903 - EPA 3545 ASE Extraction

LCS (B9F1903-BS1)

Prepared: 06/19/09 Analyzed: 06/22/09

1,2,4-Trichlorobenzene	4.22	0.33	0.027	mg/kg wet	6.67		63.4	50.7-82.1			
1,4-Dichlorobenzene	3.56	0.33	0.024	mg/kg wet	6.67		53.4	44-77			
2,4-Dinitrotoluene	4.76	0.33	0.021	mg/kg wet	6.67		71.5	56.7-81.7			
2-Chlorophenol	4.30	0.67	0.038	mg/kg wet	6.67		64.6	52.3-88.2			
4-Chloro-3-methylphenol	4.69	0.67	0.040	mg/kg wet	6.67		70.3	53.4-87			
4-Nitrophenol	5.12	0.67	0.099	mg/kg wet	6.67		76.8	55.7-87.1			
Anthracene	5.19	0.33	0.025	mg/kg wet	6.67		77.9	65.3-92			
Benzo (a) anthracene	5.51	0.33	0.027	mg/kg wet	6.67		82.7	69-95.3			
Benzo (a) pyrene	5.41	0.33	0.027	mg/kg wet	6.67		81.2	68.5-98.2			
Chrysene	5.48	0.33	0.033	mg/kg wet	6.67		82.2	68.6-94.2			
Fluoranthene	5.59	0.33	0.024	mg/kg wet	6.67		83.9	64.3-94.6			
Fluorene	5.04	0.33	0.018	mg/kg wet	6.67		75.6	61.9-89.4			
N-Nitrosodi-n-propylamine	4.74	0.33	0.025	mg/kg wet	6.67		71.1	55.5-91.1			
Pentachlorophenol	4.85	0.67	0.096	mg/kg wet	6.67		72.8	54.7-74.6			
Phenanthrene	5.19	0.33	0.019	mg/kg wet	6.67		77.9	64.3-90.9			
Phenol	4.44	0.67	0.057	mg/kg wet	6.67		66.6	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	4.79			mg/kg wet	6.67		71.8	47.2-108			
Surrogate: 2-Fluorobiphenyl	4.60			mg/kg wet	6.67		69.0	53.2-85.1			
Surrogate: 2-Fluorophenol	4.18			mg/kg wet	6.67		62.6	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.42			mg/kg wet	6.67		66.4	49.1-86.9			
Surrogate: Phenol-d6	4.68			mg/kg wet	6.67		70.2	47.6-99.6			
Surrogate: Terphenyl-d14	4.70			mg/kg wet	6.67		70.5	43.6-112			

Matrix Spike (B9F1903-MS1)

Source: 0902751-03

Prepared: 06/19/09 Analyzed: 06/22/09

1,2,4-Trichlorobenzene	4.25	0.35	0.029	mg/kg dry	7.15	<0.35	59.4	51-77.5			
1,4-Dichlorobenzene	3.35	0.35	0.026	mg/kg dry	7.15	<0.35	46.8	41.7-73.4			
2,4-Dinitrotoluene	4.67	0.35	0.022	mg/kg dry	7.15	<0.35	65.2	50-84.8			
2-Chlorophenol	4.42	0.71	0.040	mg/kg dry	7.15	<0.71	61.8	47.8-90.8			
4-Chloro-3-methylphenol	4.82	0.71	0.043	mg/kg dry	7.15	<0.71	67.3	48.4-95.1			
4-Nitrophenol	4.84	0.71	0.11	mg/kg dry	7.15	<0.71	67.6	44-105			
Anthracene	5.09	0.35	0.027	mg/kg dry	7.15	<0.35	71.2	60.2-97.3			
Benzo (a) anthracene	5.35	0.35	0.029	mg/kg dry	7.15	<0.35	74.8	59.8-102			
Benzo (a) pyrene	5.30	0.35	0.029	mg/kg dry	7.15	<0.35	74.1	57.2-105			
Chrysene	5.28	0.35	0.035	mg/kg dry	7.15	<0.35	73.8	59.2-102			
Fluoranthene	5.36	0.35	0.026	mg/kg dry	7.15	<0.35	74.9	50.4-108			
Fluorene	5.06	0.35	0.019	mg/kg dry	7.15	<0.35	70.8	57.8-94.4			
N-Nitrosodi-n-propylamine	4.70	0.35	0.027	mg/kg dry	7.15	<0.35	65.7	46.2-96.2			
Pentachlorophenol	4.74	0.71	0.10	mg/kg dry	7.15	<0.71	66.2	53.6-80.4			
Phenanthrene	5.06	0.35	0.020	mg/kg dry	7.15	<0.35	70.8	58.4-97.5			
Phenol	4.51	0.71	0.061	mg/kg dry	7.15	<0.71	63.1	44-88.5			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902852 Date Reported: 06/30/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1903 - EPA 3545 ASE Extraction

Matrix Spike (B9F1903-MS1)

Source: 0902751-03

Prepared: 06/19/09 Analyzed: 06/22/09

Surrogate: 2,4,6-Tribromophenol	4.73			mg/kg dry	7.15		66.1	47.2-108			
Surrogate: 2-Fluorobiphenyl	4.60			mg/kg dry	7.15		64.3	53.2-85.1			
Surrogate: 2-Fluorophenol	4.17			mg/kg dry	7.15		58.3	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.46			mg/kg dry	7.15		62.3	49.1-86.9			
Surrogate: Phenol-d6	4.73			mg/kg dry	7.15		66.1	47.6-99.6			
Surrogate: Terphenyl-d14	4.55			mg/kg dry	7.15		63.6	43.6-112			

Matrix Spike Dup (B9F1903-MSD1)

Source: 0902751-03

Prepared: 06/19/09 Analyzed: 06/22/09

1,2,4-Trichlorobenzene	4.32	0.35	0.029	mg/kg dry	7.16	<0.35	60.4	51-77.5	1.82	15.7	
1,4-Dichlorobenzene	3.62	0.35	0.026	mg/kg dry	7.16	<0.35	50.6	41.7-73.4	7.92	14.7	
2,4-Dinitrotoluene	4.67	0.35	0.022	mg/kg dry	7.16	<0.35	65.2	50-84.8	0.0279	20.5	
2-Chlorophenol	4.16	0.71	0.040	mg/kg dry	7.16	<0.71	58.1	47.8-90.8	6.03	19.8	
4-Chloro-3-methylphenol	4.35	0.71	0.043	mg/kg dry	7.16	<0.71	60.8	48.4-95.1	10.0	18.7	
4-Nitrophenol	4.81	0.71	0.11	mg/kg dry	7.16	<0.71	67.2	44-105	0.632	30.9	
Anthracene	5.33	0.35	0.027	mg/kg dry	7.16	<0.35	74.5	60.2-97.3	4.61	15.1	
Benzo (a) anthracene	5.62	0.35	0.029	mg/kg dry	7.16	<0.35	78.5	59.8-102	4.89	19.6	
Benzo (a) pyrene	5.52	0.35	0.029	mg/kg dry	7.16	<0.35	77.1	57.2-105	4.07	19.4	
Chrysene	5.53	0.35	0.035	mg/kg dry	7.16	<0.35	77.2	59.2-102	4.50	19.6	
Fluoranthene	5.63	0.35	0.026	mg/kg dry	7.16	<0.35	78.6	50.4-108	4.88	21	
Fluorene	4.86	0.35	0.019	mg/kg dry	7.16	<0.35	67.9	57.8-94.4	4.01	15.8	
N-Nitrosodi-n-propylamine	4.52	0.35	0.027	mg/kg dry	7.16	<0.35	63.2	46.2-96.2	3.86	17.1	
Pentachlorophenol	4.99	0.71	0.10	mg/kg dry	7.16	<0.71	69.7	53.6-80.4	5.23	22.4	
Phenanthrene	5.26	0.35	0.020	mg/kg dry	7.16	<0.35	73.5	58.4-97.5	3.87	14.3	
Phenol	4.14	0.71	0.061	mg/kg dry	7.16	<0.71	57.8	44-88.5	8.75	21.5	
Surrogate: 2,4,6-Tribromophenol	4.77			mg/kg dry	7.16		66.7	47.2-108			
Surrogate: 2-Fluorobiphenyl	4.35			mg/kg dry	7.16		60.8	53.2-85.1			
Surrogate: 2-Fluorophenol	3.99			mg/kg dry	7.16		55.7	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.44			mg/kg dry	7.16		62.0	49.1-86.9			
Surrogate: Phenol-d6	4.48			mg/kg dry	7.16		62.6	47.6-99.6			
Surrogate: Terphenyl-d14	4.77			mg/kg dry	7.16		66.6	43.6-112			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppl	Work Order #: 0902852 Date Reported: 06/30/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1807 - Volatiles

Blank (B9F1807-BLK1)

Prepared: 06/18/09 Analyzed: 06/19/09

1,1,1,2-Tetrachloroethane	< 0.026	0.25	0.026	mg/kg wet							
1,1,1-Trichloroethane	< 0.033	0.25	0.033	mg/kg wet							
1,1,2,2-Tetrachloroethane	< 0.025	0.25	0.025	mg/kg wet							
1,1,2-Trichloroethane	< 0.037	0.25	0.037	mg/kg wet							
1,1,2-Trichlorotrifluoroethane	< 0.065	0.25	0.065	mg/kg wet							
1,1-Dichloroethane	< 0.024	0.25	0.024	mg/kg wet							
1,1-Dichloroethene	< 0.025	0.25	0.025	mg/kg wet							
1,1-Dichloropropene	< 0.027	0.25	0.027	mg/kg wet							
1,2,3-Trichlorobenzene	< 0.066	0.50	0.066	mg/kg wet							
1,2,3-Trichloropropane	< 0.053	0.25	0.053	mg/kg wet							
1,2,4-Trichlorobenzene	< 0.064	0.50	0.064	mg/kg wet							
1,2,4-Trimethylbenzene	< 0.020	0.25	0.020	mg/kg wet							
1,2-Dibromo-3-chloropropane	< 0.057	0.50	0.057	mg/kg wet							
1,2-Dibromoethane (EDB)	< 0.038	0.25	0.038	mg/kg wet							
1,2-Dichlorobenzene	< 0.027	0.25	0.027	mg/kg wet							
1,2-Dichloroethane	< 0.025	0.25	0.025	mg/kg wet							
1,2-Dichloropropane	< 0.028	0.25	0.028	mg/kg wet							
1,3,5-Trimethylbenzene	< 0.015	0.25	0.015	mg/kg wet							
1,3-Dichlorobenzene	< 0.028	0.25	0.028	mg/kg wet							
1,3-Dichloropropane	< 0.017	0.25	0.017	mg/kg wet							
1,4-Dichlorobenzene	< 0.018	0.25	0.018	mg/kg wet							
2,2-Dichloropropane	< 0.068	0.50	0.068	mg/kg wet							
2-Butanone	< 0.12	2.0	0.12	mg/kg wet							
2-Chlorotoluene	< 0.018	0.25	0.018	mg/kg wet							
4-Chlorotoluene	< 0.029	0.25	0.029	mg/kg wet							
Acetone	< 0.32	2.0	0.32	mg/kg wet							
Allyl chloride	< 0.067	0.50	0.067	mg/kg wet							
Benzene	< 0.015	0.25	0.015	mg/kg wet							
Bromobenzene	< 0.019	0.25	0.019	mg/kg wet							
Bromochloromethane	< 0.025	0.25	0.025	mg/kg wet							
Bromodichloromethane	< 0.035	0.25	0.035	mg/kg wet							
Bromoform	< 0.080	0.50	0.080	mg/kg wet							
Bromomethane	< 0.14	0.50	0.14	mg/kg wet							
Carbon tetrachloride	< 0.027	0.25	0.027	mg/kg wet							
Chlorobenzene	< 0.025	0.25	0.025	mg/kg wet							
Chloroethane	< 0.073	0.25	0.073	mg/kg wet							
Chloroform	< 0.042	0.25	0.042	mg/kg wet							
Chloromethane	< 0.041	0.25	0.041	mg/kg wet							
cis-1,2-Dichloroethene	< 0.046	0.25	0.046	mg/kg wet							

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05SOC 350
 Project Manager: Ms. Kelly Nepl

Work Order #: 0902852
 Date Reported: 06/30/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1807 - Volatiles

Blank (B9F1807-BLK1)

Prepared: 06/18/09 Analyzed: 06/19/09

cis-1,3-Dichloropropene	< 0.023	0.25	0.023	mg/kg wet							
Dibromochloromethane	< 0.032	0.25	0.032	mg/kg wet							
Dibromomethane	< 0.046	0.25	0.046	mg/kg wet							
Dichlorodifluoromethane	< 0.082	0.50	0.082	mg/kg wet							
Dichlorofluoromethane	< 0.044	0.25	0.044	mg/kg wet							
Ethyl ether	< 0.048	0.50	0.048	mg/kg wet							
Ethylbenzene	< 0.022	0.25	0.022	mg/kg wet							
Hexachlorobutadiene	< 0.13	1.0	0.13	mg/kg wet							
Isopropylbenzene	< 0.023	0.25	0.023	mg/kg wet							
m,p-Xylene	< 0.088	0.50	0.088	mg/kg wet							
Methyl isobutyl ketone	< 0.092	0.50	0.092	mg/kg wet							
Methyl tert-butyl ether	< 0.017	0.25	0.017	mg/kg wet							
Methylene chloride	< 0.17	1.0	0.17	mg/kg wet							
Naphthalene	< 0.065	0.50	0.065	mg/kg wet							
n-Butylbenzene	< 0.032	0.25	0.032	mg/kg wet							
n-Propylbenzene	< 0.014	0.25	0.014	mg/kg wet							
o-Xylene	< 0.031	0.25	0.031	mg/kg wet							
p-Isopropyltoluene	< 0.030	0.25	0.030	mg/kg wet							
sec-Butylbenzene	< 0.010	0.25	0.010	mg/kg wet							
Styrene	< 0.040	0.25	0.040	mg/kg wet							
tert-Butylbenzene	< 0.018	0.25	0.018	mg/kg wet							
Tetrachloroethene	< 0.035	0.25	0.035	mg/kg wet							
Tetrahydrofuran	< 0.10	2.0	0.10	mg/kg wet							
Toluene	< 0.028	0.25	0.028	mg/kg wet							
trans-1,2-Dichloroethene	< 0.022	0.25	0.022	mg/kg wet							
trans-1,3-Dichloropropene	< 0.035	0.25	0.035	mg/kg wet							
Trichloroethene	< 0.040	0.25	0.040	mg/kg wet							
Trichlorofluoromethane	< 0.032	0.25	0.032	mg/kg wet							
Vinyl chloride	< 0.023	0.25	0.023	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	44.7			ug/L	50.0		89.3	80-120			
Surrogate: Dibromofluoromethane	43.6			ug/L	50.0		87.1	80-120			
Surrogate: Toluene-d8	44.4			ug/L	50.0		88.8	80-120			

LCS (B9F1807-BS1)

Prepared: 06/18/09 Analyzed: 06/19/09

1,1,2,2-Tetrachloroethane	49.6			ug/L	50.0		99.2	80-120			
1,1-Dichloroethane	48.0			ug/L	50.0		96.0	78.8-120			
1,1-Dichloroethene	50.1			ug/L	50.0		100	75-125			
1,3,5-Trimethylbenzene	46.4			ug/L	50.0		92.8	80-120			
1,4-Dichlorobenzene	50.6			ug/L	50.0		101	75-125			
2-Chlorotoluene	46.4			ug/L	50.0		92.8	80-120			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902852 Date Reported: 06/30/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1807 - Volatiles

LCS (B9F1807-BS1)

Prepared: 06/18/09 Analyzed: 06/19/09

Benzene	50.1			ug/L	50.0		100	80-120			
Bromoform	51.4			ug/L	50.0		103	77.1-125			
Chlorobenzene	50.9			ug/L	50.0		102	80-120			
Chloroform	50.0			ug/L	50.0		100	77.3-120			
Ethylbenzene	50.5			ug/L	50.0		101	80-120			
n-Butylbenzene	51.0			ug/L	50.0		102	70.1-125			
n-Propylbenzene	46.3			ug/L	50.0		92.7	75-120			
Toluene	51.4			ug/L	50.0		103	80-120			
Trichloroethene	49.3			ug/L	50.0		98.5	80-120			
Vinyl chloride	48.0			ug/L	50.0		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	47.8			ug/L	50.0		95.6	80-120			
Surrogate: Dibromofluoromethane	43.1			ug/L	50.0		86.1	80-120			
Surrogate: Toluene-d8	44.6			ug/L	50.0		89.2	80-120			

Matrix Spike (B9F1807-MS1)

Source: 0902852-01

Prepared: 06/18/09 Analyzed: 06/19/09

1,1,2,2-Tetrachloroethane	50.2			ug/L	50.0	<	100	80-120			
1,1-Dichloroethane	51.2			ug/L	50.0	<	102	77.5-120			
1,1-Dichloroethene	50.2			ug/L	50.0	<	100	76.1-125			
1,3,5-Trimethylbenzene	49.5			ug/L	50.0	<	98.9	80-120			
1,4-Dichlorobenzene	51.0			ug/L	50.0	<	102	75-125			
2-Chlorotoluene	49.6			ug/L	50.0	<	99.2	76.9-120			
Benzene	50.8			ug/L	50.0	<	102	80-120			
Bromoform	51.0			ug/L	50.0	<	102	80-125			
Chlorobenzene	51.8			ug/L	50.0	<	104	80-120			
Chloroform	53.7			ug/L	50.0	<	107	80-120			
Ethylbenzene	51.4			ug/L	50.0	0.171	102	80-120			
n-Butylbenzene	52.0			ug/L	50.0	0.122	104	74.7-125			
n-Propylbenzene	49.2			ug/L	50.0	<	98.5	75-120			
Toluene	52.1			ug/L	50.0	0.166	104	80-120			
Trichloroethene	51.1			ug/L	50.0	<	102	80-120			
Vinyl chloride	48.2			ug/L	50.0	<	96.4	70-125			
Surrogate: 4-Bromofluorobenzene	47.9			ug/L	50.0		95.9	80-120			
Surrogate: Dibromofluoromethane	42.9			ug/L	50.0		85.8	80-120			
Surrogate: Toluene-d8	44.3			ug/L	50.0		88.6	80-120			

Matrix Spike Dup (B9F1807-MSD1)

Source: 0902852-01

Prepared: 06/18/09 Analyzed: 06/19/09

1,1,2,2-Tetrachloroethane	49.1			ug/L	50.0	<	98.2	80-120	2.11	20	
1,1-Dichloroethane	50.3			ug/L	50.0	<	101	77.5-120	1.88	20	
1,1-Dichloroethene	49.6			ug/L	50.0	<	99.2	76.1-125	1.21	20	
1,3,5-Trimethylbenzene	47.8			ug/L	50.0	<	95.7	80-120	3.35	20	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05SOC 350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902852
 Date Reported: 06/30/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F1807 - Volatiles

Matrix Spike Dup (B9F1807-MSD1)

Source: 0902852-01

Prepared: 06/18/09 Analyzed: 06/19/09

1,4-Dichlorobenzene	50.6			ug/L	50.0	<	101	75-125	0.725	20	
2-Chlorotoluene	47.3			ug/L	50.0	<	94.6	76.9-120	4.79	20	
Benzene	49.6			ug/L	50.0	<	99.2	80-120	2.35	20	
Bromoform	52.0			ug/L	50.0	<	104	80-125	2.06	20	
Chlorobenzene	50.7			ug/L	50.0	<	101	80-120	2.27	20	
Chloroform	52.2			ug/L	50.0	<	104	80-120	2.77	20	
Ethylbenzene	50.3			ug/L	50.0	0.171	100	80-120	2.14	20	
n-Butylbenzene	51.2			ug/L	50.0	0.122	102	74.7-125	1.58	20	
n-Propylbenzene	46.5			ug/L	50.0	<	93.0	75-120	5.66	20	
Toluene	50.8			ug/L	50.0	0.166	101	80-120	2.53	20	
Trichloroethene	49.3			ug/L	50.0	<	98.6	80-120	3.53	20	
Vinyl chloride	49.1			ug/L	50.0	<	98.2	70-125	1.91	20	
Surrogate: 4-Bromofluorobenzene	47.1			ug/L	50.0		94.3	80-120			
Surrogate: Dibromofluoromethane	42.9			ug/L	50.0		85.8	80-120			
Surrogate: Toluene-d8	44.2			ug/L	50.0		88.3	80-120			

Batch B9F2305 - Volatiles

Blank (B9F2305-BLK1)

Prepared & Analyzed: 06/23/09

1,1,1,2-Tetrachloroethane	< 0.28	1.0	0.28	ug/L							
1,1,1-Trichloroethane	< 0.17	1.0	0.17	ug/L							
1,1,2,2-Tetrachloroethane	< 0.13	1.0	0.13	ug/L							
1,1,2-Trichloroethane	< 0.19	1.0	0.19	ug/L							
1,1,2-Trichlorotrifluoroethane	< 0.28	1.0	0.28	ug/L							
1,1-Dichloroethane	< 0.11	1.0	0.11	ug/L							
1,1-Dichloroethene	< 0.12	1.0	0.12	ug/L							
1,1-Dichloropropene	< 0.15	1.0	0.15	ug/L							
1,2,3-Trichlorobenzene	< 0.47	5.0	0.47	ug/L							
1,2,3-Trichloropropane	< 0.24	2.5	0.24	ug/L							
1,2,4-Trichlorobenzene	< 0.32	5.0	0.32	ug/L							
1,2,4-Trimethylbenzene	< 0.17	1.0	0.17	ug/L							
1,2-Dibromo-3-chloropropane	< 0.60	5.0	0.60	ug/L							
1,2-Dibromoethane (EDB)	< 0.37	2.5	0.37	ug/L							
1,2-Dichlorobenzene	< 0.16	1.0	0.16	ug/L							
1,2-Dichloroethane	< 0.18	1.0	0.18	ug/L							
1,2-Dichloropropane	< 0.21	1.0	0.21	ug/L							
1,3,5-Trimethylbenzene	< 0.18	1.0	0.18	ug/L							
1,3-Dichlorobenzene	< 0.21	1.0	0.21	ug/L							
1,3-Dichloropropane	< 0.15	1.0	0.15	ug/L							
1,4-Dichlorobenzene	< 0.17	1.0	0.17	ug/L							
2,2-Dichloropropane	< 0.58	5.0	0.58	ug/L							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902852 Date Reported: 06/30/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2305 - Volatiles

Blank (B9F2305-BLK1)

Prepared & Analyzed: 06/23/09

2-Butanone	< 0.67	20	0.67	ug/L							
2-Chlorotoluene	< 0.17	1.0	0.17	ug/L							
4-Chlorotoluene	< 0.14	1.0	0.14	ug/L							
Acetone	< 2.8	20	2.8	ug/L							
Allyl chloride	< 0.76	5.0	0.76	ug/L							
Benzene	< 0.093	1.0	0.093	ug/L							
Bromobenzene	< 0.17	1.0	0.17	ug/L							
Bromochloromethane	< 0.21	1.0	0.21	ug/L							
Bromodichloromethane	< 0.22	1.0	0.22	ug/L							
Bromoform	< 0.50	5.0	0.50	ug/L							
Bromomethane	< 0.95	5.0	0.95	ug/L							
Carbon tetrachloride	< 0.16	1.0	0.16	ug/L							
Chlorobenzene	< 0.15	1.0	0.15	ug/L							
Chloroethane	< 0.46	2.5	0.46	ug/L							
Chloroform	< 0.19	1.0	0.19	ug/L							
Chloromethane	< 0.37	2.5	0.37	ug/L							
cis-1,2-Dichloroethene	< 0.19	1.0	0.19	ug/L							
cis-1,3-Dichloropropene	< 0.16	1.0	0.16	ug/L							
Dibromochloromethane	< 0.50	2.5	0.50	ug/L							
Dibromomethane	< 0.30	2.5	0.30	ug/L							
Dichlorodifluoromethane	< 0.58	5.0	0.58	ug/L							
Dichlorofluoromethane	< 0.31	1.0	0.31	ug/L							
Ethyl ether	< 0.53	5.0	0.53	ug/L							
Ethylbenzene	< 0.21	1.0	0.21	ug/L							
Hexachlorobutadiene	< 0.76	10	0.76	ug/L							
Isopropylbenzene	< 0.17	1.0	0.17	ug/L							
m,p-Xylene	< 0.42	2.0	0.42	ug/L							
Methyl isobutyl ketone	< 1.1	5.0	1.1	ug/L							
Methyl tert-butyl ether	< 0.13	1.0	0.13	ug/L							
Methylene chloride	2.05	5.0	0.65	ug/L							J
Naphthalene	< 0.40	5.0	0.40	ug/L							
n-Butylbenzene	< 0.32	2.5	0.32	ug/L							
n-Propylbenzene	< 0.13	1.0	0.13	ug/L							
o-Xylene	< 0.18	1.0	0.18	ug/L							
p-Isopropyltoluene	< 0.30	2.5	0.30	ug/L							
sec-Butylbenzene	< 0.22	1.0	0.22	ug/L							
Styrene	< 0.13	1.0	0.13	ug/L							
tert-Butylbenzene	< 0.19	1.0	0.19	ug/L							
Tetrachloroethene	< 0.20	1.0	0.20	ug/L							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902852 Date Reported: 06/30/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2305 - Volatiles

Blank (B9F2305-BLK1)

Prepared & Analyzed: 06/23/09

Tetrahydrofuran	< 0.77	20	0.77	ug/L							
Toluene	< 0.21	1.0	0.21	ug/L							
trans-1,2-Dichloroethene	< 0.29	1.0	0.29	ug/L							
trans-1,3-Dichloropropene	< 0.17	1.0	0.17	ug/L							
Trichloroethene	< 0.20	1.0	0.20	ug/L							
Trichlorofluoromethane	< 0.17	1.0	0.17	ug/L							
Vinyl chloride	< 0.087	1.0	0.087	ug/L							
Surrogate: 4-Bromofluorobenzene	60.2			ug/L	55.0		110	76.4-125			
Surrogate: Dibromofluoromethane	54.8			ug/L	55.0		99.6	80-120			
Surrogate: Toluene-d8	55.3			ug/L	55.0		100	80-125			

LCS (B9F2305-BS1)

Prepared & Analyzed: 06/23/09

1,1,2,2-Tetrachloroethane	52.3	1.0	0.13	ug/L	50.0		105	80-120			
1,1-Dichloroethane	56.4	1.0	0.11	ug/L	50.0		113	76.6-120			
1,1-Dichloroethene	55.9	1.0	0.12	ug/L	50.0		112	75.9-120			
1,3,5-Trimethylbenzene	50.2	1.0	0.18	ug/L	50.0		100	80-120			
1,4-Dichlorobenzene	48.7	1.0	0.17	ug/L	50.0		97.4	75-125			
2-Chlorotoluene	50.4	1.0	0.17	ug/L	50.0		101	80-120			
Benzene	53.6	1.0	0.093	ug/L	50.0		107	80-120			
Bromoform	47.5	5.0	0.50	ug/L	50.0		95.1	75.4-125			
Chlorobenzene	51.0	1.0	0.15	ug/L	50.0		102	80-120			
Chloroform	54.9	1.0	0.19	ug/L	50.0		110	80-120			
Ethylbenzene	49.5	1.0	0.21	ug/L	50.0		99.0	80-120			
n-Butylbenzene	51.6	2.5	0.32	ug/L	50.0		103	70.6-125			
n-Propylbenzene	52.5	1.0	0.13	ug/L	50.0		105	79.7-120			
Toluene	53.8	1.0	0.21	ug/L	50.0		108	80-120			
Trichloroethene	51.4	1.0	0.20	ug/L	50.0		103	80-120			
Vinyl chloride	53.3	1.0	0.087	ug/L	50.0		107	75-129			
Surrogate: 4-Bromofluorobenzene	59.8			ug/L	55.0		109	76.4-125			
Surrogate: Dibromofluoromethane	56.9			ug/L	55.0		103	80-120			
Surrogate: Toluene-d8	56.4			ug/L	55.0		102	80-125			

Matrix Spike (B9F2305-MS1)

Source: 0902820-02

Prepared & Analyzed: 06/23/09

1,1,2,2-Tetrachloroethane	52.0	1.0	0.13	ug/L	50.0	<1.0	104	80-120			
1,1-Dichloroethane	57.4	1.0	0.11	ug/L	50.0	<1.0	115	78-120			
1,1-Dichloroethene	57.2	1.0	0.12	ug/L	50.0	<1.0	114	75-120			
1,3,5-Trimethylbenzene	52.6	1.0	0.18	ug/L	50.0	<1.0	105	75.8-120			
1,4-Dichlorobenzene	49.4	1.0	0.17	ug/L	50.0	<1.0	98.8	75-125			
2-Chlorotoluene	51.8	1.0	0.17	ug/L	50.0	<1.0	104	79.1-120			
Benzene	54.2	1.0	0.093	ug/L	50.0	<1.0	108	80-120			

Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Project: 23/19-0B05.07
Project Number: 23/19-0B05SOC 350
Project Manager: Ms. Kelly Nepl

Work Order #: 0902852
Date Reported: 06/30/09

VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2305 - Volatiles

Matrix Spike (B9F2305-MS1)

Source: 0902820-02

Prepared & Analyzed: 06/23/09

Bromoform	45.6	5.0	0.50	ug/L	50.0	<5.0	91.2	80-123			
Chlorobenzene	49.0	1.0	0.15	ug/L	50.0	<1.0	98.1	80-120			
Chloroform	55.4	1.0	0.19	ug/L	50.0	2.14	107	80-120			
Ethylbenzene	49.8	1.0	0.21	ug/L	50.0	<1.0	99.7	80-120			
n-Butylbenzene	53.2	2.5	0.32	ug/L	50.0	<2.5	106	74.2-125			
n-Propylbenzene	53.5	1.0	0.13	ug/L	50.0	<1.0	107	76.3-120			
Toluene	55.4	1.0	0.21	ug/L	50.0	<1.0	110	80-120			
Trichloroethene	50.3	1.0	0.20	ug/L	50.0	<1.0	101	80-120			
Vinyl chloride	54.2	1.0	0.087	ug/L	50.0	<1.0	108	70.3-126			
Surrogate: 4-Bromofluorobenzene	61.1			ug/L	55.0		111	76.4-125			
Surrogate: Dibromofluoromethane	56.2			ug/L	55.0		102	80-120			
Surrogate: Toluene-d8	56.6			ug/L	55.0		103	80-125			

Matrix Spike Dup (B9F2305-MSD1)

Source: 0902820-02

Prepared & Analyzed: 06/23/09

1,1,2,2-Tetrachloroethane	50.9	1.0	0.13	ug/L	50.0	<1.0	102	80-120	2.07	20	
1,1-Dichloroethane	55.8	1.0	0.11	ug/L	50.0	<1.0	112	78-120	2.72	20	
1,1-Dichloroethene	56.6	1.0	0.12	ug/L	50.0	<1.0	113	75-120	1.04	20	
1,3,5-Trimethylbenzene	50.8	1.0	0.18	ug/L	50.0	<1.0	102	75.8-120	3.58	20	
1,4-Dichlorobenzene	49.7	1.0	0.17	ug/L	50.0	<1.0	99.4	75-125	0.643	20	
2-Chlorotoluene	50.6	1.0	0.17	ug/L	50.0	<1.0	101	79.1-120	2.19	20	
Benzene	53.1	1.0	0.093	ug/L	50.0	<1.0	106	80-120	1.98	20	
Bromoform	48.6	5.0	0.50	ug/L	50.0	<5.0	97.2	80-123	6.31	20	
Chlorobenzene	50.3	1.0	0.15	ug/L	50.0	<1.0	101	80-120	2.62	20	
Chloroform	54.5	1.0	0.19	ug/L	50.0	2.14	105	80-120	1.64	20	
Ethylbenzene	51.8	1.0	0.21	ug/L	50.0	<1.0	104	80-120	3.82	20	
n-Butylbenzene	53.2	2.5	0.32	ug/L	50.0	<2.5	106	74.2-125	0.0487	20	
n-Propylbenzene	52.7	1.0	0.13	ug/L	50.0	<1.0	105	76.3-120	1.57	20	
Toluene	53.4	1.0	0.21	ug/L	50.0	<1.0	106	80-120	3.72	20	
Trichloroethene	50.0	1.0	0.20	ug/L	50.0	<1.0	100	80-120	0.605	20	
Vinyl chloride	53.1	1.0	0.087	ug/L	50.0	<1.0	106	70.3-126	2.08	20	
Surrogate: 4-Bromofluorobenzene	61.3			ug/L	55.0		111	76.4-125			
Surrogate: Dibromofluoromethane	55.5			ug/L	55.0		101	80-120			
Surrogate: Toluene-d8	55.9			ug/L	55.0		102	80-125			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902852 Date Reported: 06/30/09
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Notes and Definitions

- V7 Calibration verification recovery was above the method control limit for this analyte, however the average % difference or % drift for all the analytes met method criteria.
- S-02 Surrogate recovery outside of laboratory acceptance limits.
- R5 MS/MSD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.
- R2 RPD/RSD exceeded the laboratory acceptance limit.
- M2 Matrix spike recovery was low, the associated blank spike recovery was acceptable.
- J Parameter was present between the MDL and RL and should be considered an estimated value
- < Less than value listed
- dry Sample results reported on a dry weight basis
- NA Not applicable. The %RPD is not calculated from values less than the reporting limit.
- MDL Method Detection Limit
- RL Reporting Limit
- RPD Relative Percent Difference
- LCS Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
- MS Matrix Spike = Laboratory Fortified Matrix (LFM)

LEGEND

Technical Services, Inc.

www.legend-group.com

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

0902852
Chain of Custody

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number: 2,3/1,9-B05506-350
Project Name: Umore Phase 2
NO 28186

Sample Identification	Collection		Matrix Type		Grab	OC
	Date	Time	Water	Soil		
1. SOC3-TT6-0-1'	6/15/09	1400	X	X	X	
2. SOC3-TT9-7-8'		1430	X	X	X	
3. SOC3-TT9-0-5'		1445	X	X	X	
4. SOC3-TT3-0-5'		1530	X	X	X	
5. SOC3-TT3-1'		1600	X	X	X	
6. SOC3-TT3-0-5'		1615	X	X	X	
7. SOC3-DUP4			X	X	X	
8. TT-FB-1		1730	X	X	XXX	
9.						
10.						
11.						
12.						

Common Parameter/Container - Preservation Key
 *1 - Volatile Organics = BTEX, GRO, TPH, Full List
 *2 - Semivolatile Organics = PAHs, PCB, Dioxins, Full List, Herbicide/Pesticide/PCBs
 *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
 *4 - Nutrients = COD, TOC, Phosphorus, Ammonia Nitrogen, TNK

Sample ID	Number of Containers/Preservative												Remarks
	Water						Soil						
1													Analyze SVOC, PPL, metals, OC pesticides VOC
2													Analyze Arsenic
3													Analyze SVOC, VOC, PPL, metals, OC Pesticides, MS/MID, Vol
4													Analyze SVOC, VOC, PPL, metals, OC Pesticides
5													Analyze Arsenic
6													Analyze VOC + SVOC
7													Analyze VOC + SVOC
8													Analyze VOC + SVOC

COC 1 of 1
 Project Manager: JSA/ME
 Project Contact: KJN/MSH
 Sampled by: KCB
 Laboratory: Legend

Received By: [Signature] Date: 6/16/09 Time: 10:45
 Received By: [Signature] Date: 6/16/09 Time: 10:45
 Air Bill Number: [Blank]

0902852 11



88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

July 02, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0902894
RE: 23/19-0B05.07

Enclosed are the results of analyses for samples received by the laboratory on 06/18/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
tolson@legend-group.com

Erica Nastrom
QA/QC Coordinator
enastrom@legend-group.com

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902894 Date Reported: 07/02/09
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WSW-207605	0902894-01	Water	06/18/09 14:10	06/18/09 14:55

Shipping Container Information

Default Cooler Temperature (°C): 2.7

Received on ice: Yes Temperature blank was present Received on ice pack: No
 Received on melt water: No Ambient: No Acceptable (IH/ISO only): No
 Custody seals: No

Case Narrative:

Recovery for 4,4'-DDT in the ending 8081A continuing calibration verification standard (CCVS) was above the method limit, however, following calibration evaluation procedures per EPA 8000B, the average % difference for all analytes was within the method limit, verifying the calibration . The specific analytes are flagged as required.

Recovery for the 8081A surrogate tetrachloro-meta-xylene was slightly below laboratory limits in the batch B9F2206 blank. The remaining surrogate in the blank and all spike compounds and surrogate recoveries in the batch LCS/MS/MSD were acceptable.

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902894 Date Reported: 07/02/09
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PESTICIDES 8081A
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-207605 (0902894-01) Water Sampled: 06/18/09 14:10 Received: 06/18/09 14:55										
4,4'-DDD	<0.034	0.37	0.034	ug/L	1	B9F2206	06/22/09	06/27/09	EPA 8081A	
4,4'-DDE	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
4,4'-DDT	<0.039	0.37	0.039	ug/L	1	"	"	"	"	V7
a-Chlordane	<0.035	0.37	0.035	ug/L	1	"	"	"	"	
Aldrin	<0.036	0.37	0.036	ug/L	1	"	"	"	"	
alpha-BHC	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
beta-BHC	<0.049	0.37	0.049	ug/L	1	"	"	"	"	
delta-BHC	<0.043	0.37	0.043	ug/L	1	"	"	"	"	
Dieldrin	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
Endosulfan I	<0.037	0.37	0.037	ug/L	1	"	"	"	"	
Endosulfan II	<0.038	0.37	0.038	ug/L	1	"	"	"	"	
Endosulfan sulfate	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
Endrin	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
Endrin aldehyde	<0.047	0.37	0.047	ug/L	1	"	"	"	"	
Endrin ketone	<0.039	0.37	0.039	ug/L	1	"	"	"	"	
gamma-BHC (Lindane)	<0.044	0.37	0.044	ug/L	1	"	"	"	"	
gamma-Chlordane	<0.034	0.37	0.034	ug/L	1	"	"	"	"	
Heptachlor	<0.036	0.37	0.036	ug/L	1	"	"	"	"	
Heptachlor epoxide	<0.038	0.37	0.038	ug/L	1	"	"	"	"	
Methoxychlor	<0.042	0.37	0.042	ug/L	1	"	"	"	"	
Toxaphene	<0.18	0.93	0.18	ug/L	1	"	"	"	"	
Surrogate: Decachlorobiphenyl	99.5							06/27/09	"	
Surrogate: Tetrachloro-meta-xylene	90.0							"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902894 Date Reported: 07/02/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-207605 (0902894-01) Water Sampled: 06/18/09 14:10 Received: 06/18/09 14:55										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9F2303	06/23/09	06/23/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3'-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902894 Date Reported: 07/02/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-207605 (0902894-01) Water Sampled: 06/18/09 14:10 Received: 06/18/09 14:55										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9F2303	06/23/09	06/23/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	79.7			48.5-114 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	74.4			41.7-98.4 %		"	"	"	"	
Surrogate: 2-Fluorophenol	54.4			30-93.5 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	78.0			47.4-97.8 %		"	"	"	"	
Surrogate: Phenol-d6	46.8			30-91.5 %		"	"	"	"	
Surrogate: Terphenyl-d14	70.9			30-108 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902894 Date Reported: 07/02/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2206 - EPA 3510C (Sep Funnel)

Blank (B9F2206-BLK1)

Prepared: 06/22/09 Analyzed: 06/27/09

4,4'-DDD	< 0.037	0.40	0.037	ug/L							
4,4'-DDE	< 0.037	0.40	0.037	ug/L							
4,4'-DDT	< 0.042	0.40	0.042	ug/L							V7
a-Chlordane	< 0.038	0.40	0.038	ug/L							
Aldrin	< 0.039	0.40	0.039	ug/L							
alpha-BHC	< 0.045	0.40	0.045	ug/L							
beta-BHC	< 0.053	0.40	0.053	ug/L							
delta-BHC	< 0.046	0.40	0.046	ug/L							
Dieldrin	< 0.037	0.40	0.037	ug/L							
Endosulfan I	< 0.040	0.40	0.040	ug/L							
Endosulfan II	< 0.041	0.40	0.041	ug/L							
Endosulfan sulfate	< 0.045	0.40	0.045	ug/L							
Endrin	< 0.042	0.40	0.042	ug/L							
Endrin aldehyde	< 0.051	0.40	0.051	ug/L							
Endrin ketone	< 0.042	0.40	0.042	ug/L							
gamma-BHC (Lindane)	< 0.047	0.40	0.047	ug/L							
gamma-Chlordane	< 0.037	0.40	0.037	ug/L							
Heptachlor	< 0.039	0.40	0.039	ug/L							
Heptachlor epoxide	< 0.041	0.40	0.041	ug/L							
Methoxychlor	< 0.045	0.40	0.045	ug/L							
Toxaphene	< 0.19	1.0	0.19	ug/L							
Surrogate: Decachlorobiphenyl	1.00			ug/L	1.00		100	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.690			ug/L	1.00		69.0	71.7-111			S-GC

LCS (B9F2206-BS1)

Prepared: 06/22/09 Analyzed: 06/27/09

4,4'-DDD	1.15	0.40	0.037	ug/L	1.25		92.0	70-130			
4,4'-DDE	1.15	0.40	0.037	ug/L	1.25		92.0	70-130			
4,4'-DDT	1.36	0.40	0.042	ug/L	1.25		109	70-130			V7
a-Chlordane	1.15	0.40	0.038	ug/L	1.25		92.0	70-130			
Aldrin	1.01	0.40	0.039	ug/L	1.25		80.8	70-130			
alpha-BHC	1.15	0.40	0.045	ug/L	1.25		92.0	70-130			
beta-BHC	1.11	0.40	0.053	ug/L	1.25		88.8	70-130			
delta-BHC	1.16	0.40	0.046	ug/L	1.25		92.4	70-130			
Dieldrin	1.16	0.40	0.037	ug/L	1.25		92.8	70-130			
Endosulfan I	1.16	0.40	0.040	ug/L	1.25		92.8	70-130			
Endosulfan II	1.16	0.40	0.041	ug/L	1.25		92.8	70-130			
Endosulfan sulfate	1.18	0.40	0.045	ug/L	1.25		94.8	70-130			
Endrin	1.23	0.40	0.042	ug/L	1.25		98.4	70-130			
Endrin aldehyde	1.24	0.40	0.051	ug/L	1.25		98.8	70-130			
Endrin ketone	1.20	0.40	0.042	ug/L	1.25		95.6	70-130			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902894 Date Reported: 07/02/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2206 - EPA 3510C (Sep Funnel)

LCS (B9F2206-BS1)

Prepared: 06/22/09 Analyzed: 06/27/09

gamma-BHC (Lindane)	1.16	0.40	0.047	ug/L	1.25		93.2	70-130			
gamma-Chlordane	1.10	0.40	0.037	ug/L	1.25		88.4	70-130			
Heptachlor	1.10	0.40	0.039	ug/L	1.25		88.4	70-130			
Heptachlor epoxide	1.16	0.40	0.041	ug/L	1.25		92.8	70-130			
Methoxychlor	1.32	0.40	0.045	ug/L	1.25		106	70-130			
Surrogate: Decachlorobiphenyl	0.970			ug/L	1.00		97.0	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.775			ug/L	1.00		77.5	71.7-111			

Matrix Spike (B9F2206-MS1)

Source: 0902866-02

Prepared: 06/22/09 Analyzed: 06/27/09

4,4'-DDD	1.17	0.40	0.037	ug/L	1.25	<0.40	93.6	70-130			
4,4'-DDE	1.24	0.40	0.037	ug/L	1.25	<0.40	98.8	70-130			
4,4'-DDT	1.54	0.40	0.042	ug/L	1.25	<0.40	124	70-130			V7
a-Chlordane	1.22	0.40	0.038	ug/L	1.25	<0.40	97.2	70-130			
Aldrin	1.20	0.40	0.039	ug/L	1.25	<0.40	96.4	70-130			
alpha-BHC	1.22	0.40	0.045	ug/L	1.25	<0.40	98.0	70-130			
beta-BHC	1.18	0.40	0.053	ug/L	1.25	<0.40	94.8	70-130			
delta-BHC	1.24	0.40	0.046	ug/L	1.25	<0.40	99.6	70-130			
Dieldrin	1.22	0.40	0.037	ug/L	1.25	<0.40	97.2	70-130			
Endosulfan I	1.23	0.40	0.040	ug/L	1.25	<0.40	98.4	70-130			
Endosulfan II	1.21	0.40	0.041	ug/L	1.25	<0.40	96.8	70-130			
Endosulfan sulfate	1.26	0.40	0.045	ug/L	1.25	<0.40	100	70-130			
Endrin	1.34	0.40	0.042	ug/L	1.25	<0.40	107	70-130			
Endrin aldehyde	1.26	0.40	0.051	ug/L	1.25	<0.40	101	70-130			
Endrin ketone	1.26	0.40	0.042	ug/L	1.25	<0.40	100	70-130			
gamma-BHC (Lindane)	1.24	0.40	0.047	ug/L	1.25	<0.40	99.2	70-130			
gamma-Chlordane	1.19	0.40	0.037	ug/L	1.25	<0.40	95.2	70-130			
Heptachlor	1.27	0.40	0.039	ug/L	1.25	<0.40	102	70-130			
Heptachlor epoxide	1.22	0.40	0.041	ug/L	1.25	<0.40	97.2	70-130			
Methoxychlor	1.48	0.40	0.045	ug/L	1.25	<0.40	118	70-130			
Surrogate: Decachlorobiphenyl	1.01			ug/L	1.00		101	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.910			ug/L	1.00		91.0	71.7-111			

Matrix Spike Dup (B9F2206-MSD1)

Source: 0902866-02

Prepared: 06/22/09 Analyzed: 06/27/09

4,4'-DDD	1.03	0.37	0.034	ug/L	1.16	<0.37	89.2	70-130	12.5	25.4	
4,4'-DDE	1.09	0.37	0.034	ug/L	1.16	<0.37	94.4	70-130	12.2	31.2	
4,4'-DDT	1.38	0.37	0.039	ug/L	1.16	<0.37	119	70-130	11.6	25.2	V7
a-Chlordane	1.08	0.37	0.035	ug/L	1.16	<0.37	93.6	70-130	11.5	25	
Aldrin	1.07	0.37	0.036	ug/L	1.16	<0.37	92.4	70-130	11.9	26.2	
alpha-BHC	1.07	0.37	0.042	ug/L	1.16	<0.37	92.8	70-130	13.1	19.2	
beta-BHC	1.06	0.37	0.049	ug/L	1.16	<0.37	91.2	70-130	11.6	23.2	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902894 Date Reported: 07/02/09
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PESTICIDES 8081A - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F2206 - EPA 3510C (Sep Funnel)											
Matrix Spike Dup (B9F2206-MSD1)			Source: 0902866-02			Prepared: 06/22/09		Analyzed: 06/27/09			
delta-BHC	1.10	0.37	0.043	ug/L	1.16	<0.37	95.2	70-130	12.2	23.2	
Dieldrin	1.08	0.37	0.034	ug/L	1.16	<0.37	93.2	70-130	11.9	26.2	
Endosulfan I	1.09	0.37	0.037	ug/L	1.16	<0.37	94.4	70-130	11.8	27.8	
Endosulfan II	1.07	0.37	0.038	ug/L	1.16	<0.37	92.8	70-130	11.9	21.9	
Endosulfan sulfate	1.12	0.37	0.042	ug/L	1.16	<0.37	96.4	70-130	11.7	23.2	
Endrin	1.19	0.37	0.039	ug/L	1.16	<0.37	103	70-130	11.9	24.7	
Endrin aldehyde	1.10	0.37	0.047	ug/L	1.16	<0.37	94.8	70-130	13.8	22.5	
Endrin ketone	1.11	0.37	0.039	ug/L	1.16	<0.37	96.0	70-130	12.2	18.8	
gamma-BHC (Lindane)	1.09	0.37	0.044	ug/L	1.16	<0.37	94.4	70-130	12.6	20.1	
gamma-Chlordane	1.06	0.37	0.034	ug/L	1.16	<0.37	91.2	70-130	12.0	23.1	
Heptachlor	1.12	0.37	0.036	ug/L	1.16	<0.37	97.2	70-130	12.1	24.3	
Heptachlor epoxide	1.08	0.37	0.038	ug/L	1.16	<0.37	93.2	70-130	11.9	28.7	
Methoxychlor	1.34	0.37	0.042	ug/L	1.16	<0.37	116	70-130	10.1	20.6	
Surrogate: Decachlorobiphenyl	0.898			ug/L	0.926		97.0	80.6-122			
Surrogate: Tetrachloro-meta-xylene	0.833			ug/L	0.926		90.0	71.7-111			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902894 Date Reported: 07/02/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2303 - EPA 3510C (Sep Funnel)

Blank (B9F2303-BLK1)

Prepared & Analyzed: 06/23/09

1,2,4-Trichlorobenzene	< 0.19	10	0.19	ug/L							
1,2-Dichlorobenzene	< 0.23	10	0.23	ug/L							
1,2-Diphenylhydrazine as Azobenzene	< 0.24	10	0.24	ug/L							
1,3-Dichlorobenzene	< 0.21	10	0.21	ug/L							
1,4-Dichlorobenzene	< 0.22	10	0.22	ug/L							
2,3,4,6-Tetrachlorophenol	< 0.61	10	0.61	ug/L							
2,4,5-Trichlorophenol	< 0.80	10	0.80	ug/L							
2,4,6-Trichlorophenol	< 0.48	10	0.48	ug/L							
2,4-Dichlorophenol	< 0.47	10	0.47	ug/L							
2,4-Dimethylphenol	< 1.6	10	1.6	ug/L							
2,4-Dinitrophenol	< 1.0	10	1.0	ug/L							
2,4-Dinitrotoluene	< 0.33	10	0.33	ug/L							
2,6-Dichlorophenol	< 0.48	10	0.48	ug/L							
2,6-Dinitrotoluene	< 0.36	10	0.36	ug/L							
2-Chloronaphthalene	< 0.28	10	0.28	ug/L							
2-Chlorophenol	< 0.45	10	0.45	ug/L							
2-Methylnaphthalene	< 0.66	10	0.66	ug/L							
2-Methylphenol	< 0.63	10	0.63	ug/L							
2-Nitroaniline	< 0.72	10	0.72	ug/L							
2-Nitrophenol	< 0.90	10	0.90	ug/L							
3,3'-Dichlorobenzidine	< 7.3	25	7.3	ug/L							
3-Nitroaniline	< 1.2	10	1.2	ug/L							
4,6-Dinitro-2-methylphenol	< 0.65	10	0.65	ug/L							
4-Bromophenyl phenyl ether	< 0.17	10	0.17	ug/L							
4-Chloro-3-methylphenol	< 0.55	10	0.55	ug/L							
4-Chloroaniline	< 2.3	10	2.3	ug/L							
4-Chlorophenyl phenyl ether	< 0.25	10	0.25	ug/L							
4-Methylphenol	< 0.79	10	0.79	ug/L							
4-Nitroaniline	< 0.59	10	0.59	ug/L							
4-Nitrophenol	< 1.2	10	1.2	ug/L							
Acenaphthene	< 0.36	10	0.36	ug/L							
Acenaphthylene	< 0.25	10	0.25	ug/L							
Aniline	< 2.2	10	2.2	ug/L							
Anthracene	< 0.37	10	0.37	ug/L							
Benzidine	< 18	100	18	ug/L							
Benzo (a) anthracene	< 0.37	10	0.37	ug/L							
Benzo (a) pyrene	< 0.29	10	0.29	ug/L							
Benzo (b) fluoranthene	< 0.22	10	0.22	ug/L							
Benzo (g,h,i) perylene	< 0.26	10	0.26	ug/L							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0902894 Date Reported: 07/02/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2303 - EPA 3510C (Sep Funnel)

Blank (B9F2303-BLK1)

Prepared & Analyzed: 06/23/09

Benzo (k) fluoranthene	< 0.31	10	0.31	ug/L							
Benzoic acid	< 1.2	10	1.2	ug/L							
Benzyl alcohol	< 0.54	10	0.54	ug/L							
Bis(2-chloroethoxy)methane	< 0.18	10	0.18	ug/L							
Bis(2-chloroethyl)ether	< 0.17	10	0.17	ug/L							
Bis(2-chloroisopropyl)ether	< 0.19	10	0.19	ug/L							
Bis(2-ethylhexyl)phthalate	< 0.43	10	0.43	ug/L							
Butyl benzyl phthalate	< 0.37	10	0.37	ug/L							
Carbazole	< 0.26	10	0.26	ug/L							
Chrysene	< 0.27	10	0.27	ug/L							
Dibenz (a,h) anthracene	< 0.23	10	0.23	ug/L							
Dibenzofuran	< 0.39	10	0.39	ug/L							
Diethyl phthalate	< 0.23	10	0.23	ug/L							
Dimethyl phthalate	< 0.24	10	0.24	ug/L							
Di-n-butyl phthalate	< 0.28	10	0.28	ug/L							
Di-n-octyl phthalate	< 0.38	10	0.38	ug/L							
Fluoranthene	< 0.39	10	0.39	ug/L							
Fluorene	< 0.40	10	0.40	ug/L							
Hexachlorobenzene	< 0.20	10	0.20	ug/L							
Hexachlorobutadiene	< 0.26	10	0.26	ug/L							
Hexachlorocyclopentadiene	< 0.31	10	0.31	ug/L							
Hexachloroethane	< 0.31	10	0.31	ug/L							
Indeno (1,2,3-cd) pyrene	< 0.31	10	0.31	ug/L							
Isophorone	< 0.23	10	0.23	ug/L							
Naphthalene	< 0.37	10	0.37	ug/L							
Nitrobenzene	< 0.39	10	0.39	ug/L							
N-Nitrosodimethylamine	< 0.95	10	0.95	ug/L							
N-Nitrosodi-n-propylamine	< 0.21	10	0.21	ug/L							
N-Nitrosodiphenylamine	< 0.23	10	0.23	ug/L							
Pentachlorophenol	< 0.59	10	0.59	ug/L							
Phenanthrene	< 0.39	10	0.39	ug/L							
Phenol	< 0.57	10	0.57	ug/L							
Pyrene	< 0.47	10	0.47	ug/L							
Surrogate: 2,4,6-Tribromophenol	85.1			ug/L	100		85.1	48.5-114			
Surrogate: 2-Fluorobiphenyl	77.3			ug/L	100		77.3	41.7-98.4			
Surrogate: 2-Fluorophenol	72.2			ug/L	100		72.2	30-93.5			
Surrogate: Nitrobenzene-d5	82.9			ug/L	100		82.9	47.4-97.8			
Surrogate: Phenol-d6	66.0			ug/L	100		66.0	30-91.5			
Surrogate: Terphenyl-d14	77.2			ug/L	100		77.2	30-108			

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05.07SOC 350
 Project Manager: Ms. Kelly Neppi

Work Order #: 0902894
 Date Reported: 07/02/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2303 - EPA 3510C (Sep Funnel)

LCS (B9F2303-BS1)

Prepared & Analyzed: 06/23/09

1,2,4-Trichlorobenzene	65.9	10	0.19	ug/L	100		65.9	48.2-88.3			
1,4-Dichlorobenzene	58.7	10	0.22	ug/L	100		58.7	42.8-82.2			
2,4-Dinitrotoluene	84.3	10	0.33	ug/L	100		84.3	64.6-98.9			
2-Chlorophenol	68.7	10	0.45	ug/L	100		68.7	56.5-88.1			
4-Chloro-3-methylphenol	79.3	10	0.55	ug/L	100		79.3	63.4-95.2			
4-Nitrophenol	67.0	10	1.2	ug/L	100		67.0	51.3-90.6			
Anthracene	83.3	10	0.37	ug/L	100		83.3	66.7-92.8			
Benzo (a) anthracene	89.3	10	0.37	ug/L	100		89.3	72.7-97.2			
Benzo (a) pyrene	83.4	10	0.29	ug/L	100		83.4	66.4-101			
Chrysene	88.3	10	0.27	ug/L	100		88.3	71.5-98.1			
Fluoranthene	88.3	10	0.39	ug/L	100		88.3	68.8-94			
Fluorene	86.2	10	0.40	ug/L	100		86.2	64.2-94.4			
N-Nitrosodi-n-propylamine	80.4	10	0.21	ug/L	100		80.4	63.6-92.8			
Pentachlorophenol	87.2	10	0.59	ug/L	100		87.2	60.2-101			
Phenanthrene	85.9	10	0.39	ug/L	100		85.9	68.1-94.8			
Phenol	50.3	10	0.57	ug/L	100		50.3	39.6-71			
Surrogate: 2,4,6-Tribromophenol	79.3			ug/L	100		79.3	48.5-114			
Surrogate: 2-Fluorobiphenyl	77.3			ug/L	100		77.3	41.7-98.4			
Surrogate: 2-Fluorophenol	56.2			ug/L	100		56.2	30-93.5			
Surrogate: Nitrobenzene-d5	83.9			ug/L	100		83.9	47.4-97.8			
Surrogate: Phenol-d6	47.8			ug/L	100		47.8	30-91.5			
Surrogate: Terphenyl-d14	77.8			ug/L	100		77.8	30-108			

Matrix Spike (B9F2303-MS1)

Source: 0902866-02

Prepared & Analyzed: 06/23/09

1,2,4-Trichlorobenzene	67.6	9.3	0.18	ug/L	92.6	<9.3	73.0	43.8-87.4			
1,4-Dichlorobenzene	61.6	9.3	0.20	ug/L	92.6	<9.3	66.6	43.7-78.7			
2,4-Dinitrotoluene	80.1	9.3	0.31	ug/L	92.6	<9.3	86.6	52.8-100			
2-Chlorophenol	72.0	9.3	0.42	ug/L	92.6	<9.3	77.8	30.1-95			
4-Chloro-3-methylphenol	82.0	9.3	0.51	ug/L	92.6	<9.3	88.6	44.8-98.7			
4-Nitrophenol	77.5	9.3	1.1	ug/L	92.6	<9.3	83.6	32.5-99.6			
Anthracene	82.7	9.3	0.34	ug/L	92.6	<9.3	89.3	44.8-97.6			
Benzo (a) anthracene	86.2	9.3	0.34	ug/L	92.6	<9.3	93.1	30-115			
Benzo (a) pyrene	81.4	9.3	0.27	ug/L	92.6	<9.3	87.9	30-110			
Chrysene	87.1	9.3	0.25	ug/L	92.6	<9.3	94.1	30-115			
Fluoranthene	85.0	9.3	0.36	ug/L	92.6	<9.3	91.8	37.4-103			
Fluorene	83.3	9.3	0.37	ug/L	92.6	<9.3	90.0	49.6-92.1			
N-Nitrosodi-n-propylamine	78.7	9.3	0.19	ug/L	92.6	<9.3	85.0	44.9-100			
Pentachlorophenol	88.1	9.3	0.55	ug/L	92.6	<9.3	95.1	31.2-123			
Phenanthrene	84.8	9.3	0.36	ug/L	92.6	<9.3	91.6	47-99.1			
Phenol	53.2	9.3	0.53	ug/L	92.6	<9.3	57.5	30-79.5			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902894 Date Reported: 07/02/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9F2303 - EPA 3510C (Sep Funnel)

Matrix Spike (B9F2303-MS1)

Source: 0902866-02

Prepared & Analyzed: 06/23/09

Surrogate: 2,4,6-Tribromophenol	80.1			ug/L	92.6		86.5	48.5-114			
Surrogate: 2-Fluorobiphenyl	75.1			ug/L	92.6		81.1	41.7-98.4			
Surrogate: 2-Fluorophenol	60.8			ug/L	92.6		65.6	30-93.5			
Surrogate: Nitrobenzene-d5	79.2			ug/L	92.6		85.5	47.4-97.8			
Surrogate: Phenol-d6	54.9			ug/L	92.6		59.3	30-91.5			
Surrogate: Terphenyl-d14	76.2			ug/L	92.6		82.2	30-108			

Matrix Spike Dup (B9F2303-MSD1)

Source: 0902866-02

Prepared & Analyzed: 06/23/09

1,2,4-Trichlorobenzene	66.5	9.3	0.18	ug/L	92.6	<9.3	71.8	43.8-87.4	1.68	28.2	
1,4-Dichlorobenzene	63.0	9.3	0.20	ug/L	92.6	<9.3	68.0	43.7-78.7	2.19	25	
2,4-Dinitrotoluene	80.7	9.3	0.31	ug/L	92.6	<9.3	87.2	52.8-100	0.718	15	
2-Chlorophenol	66.2	9.3	0.42	ug/L	92.6	<9.3	71.5	30.1-95	8.43	27.5	
4-Chloro-3-methylphenol	76.1	9.3	0.51	ug/L	92.6	<9.3	82.2	44.8-98.7	7.54	27.6	
4-Nitrophenol	73.1	9.3	1.1	ug/L	92.6	<9.3	79.0	32.5-99.6	5.77	35	
Anthracene	81.0	9.3	0.34	ug/L	92.6	<9.3	87.5	44.8-97.6	2.03	21	
Benzo (a) anthracene	83.7	9.3	0.34	ug/L	92.6	<9.3	90.4	30-115	2.96	33.7	
Benzo (a) pyrene	78.2	9.3	0.27	ug/L	92.6	<9.3	84.5	30-110	4.01	33.8	
Chrysene	85.0	9.3	0.25	ug/L	92.6	<9.3	91.8	30-115	2.51	35.1	
Fluoranthene	83.8	9.3	0.36	ug/L	92.6	<9.3	90.5	37.4-103	1.45	29.1	
Fluorene	81.6	9.3	0.37	ug/L	92.6	<9.3	88.2	49.6-92.1	2.04	19.7	
N-Nitrosodi-n-propylamine	74.6	9.3	0.19	ug/L	92.6	<9.3	80.6	44.9-100	5.37	18.6	
Pentachlorophenol	88.0	9.3	0.55	ug/L	92.6	<9.3	95.1	31.2-123	0.0351	32.2	
Phenanthrene	82.5	9.3	0.36	ug/L	92.6	<9.3	89.1	47-99.1	2.77	18.4	
Phenol	49.7	9.3	0.53	ug/L	92.6	<9.3	53.7	30-79.5	6.85	33.6	
Surrogate: 2,4,6-Tribromophenol	76.4			ug/L	92.6		82.6	48.5-114			
Surrogate: 2-Fluorobiphenyl	72.4			ug/L	92.6		78.2	41.7-98.4			
Surrogate: 2-Fluorophenol	54.1			ug/L	92.6		58.4	30-93.5			
Surrogate: Nitrobenzene-d5	77.2			ug/L	92.6		83.3	47.4-97.8			
Surrogate: Phenol-d6	51.7			ug/L	92.6		55.8	30-91.5			
Surrogate: Terphenyl-d14	71.3			ug/L	92.6		77.0	30-108			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0902894 Date Reported: 07/02/09
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Notes and Definitions

- V7 Calibration verification recovery was above the method control limit for this analyte, however the average % difference or % drift for all the analytes met method criteria.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- < Less than value listed
- dry Sample results reported on a dry weight basis
- NA Not applicable. The %RPD is not calculated from values less than the reporting limit.
- MDL Method Detection Limit
- RL Reporting Limit
- RPD Relative Percent Difference
- LCS Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
- MS Matrix Spike = Laboratory Fortified Matrix (LFM)

09028914

Chain of Custody

4700 West 77th Street
 Minneapolis, MN 55435-4803
 (952) 832-2600

BARR

Project Number

23 / 19 - 080507 SOC 35D

Project Name

No 26774

Sample Identification	Collection		Matrix Type	
	Date	Time	Water	Soil
1. WSW-207605	6/18/09	1410	✓	✓
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				

3

Subs, OC Post.

Remarks:

Total No. Of Containers

VOCs (2-oz tared MeOH) *1

GRO, BTEX (2-oz tared MeOH) *1

Metals (2-oz unpreserved)

SVOCS (2 or 4-oz unpres.) *2

% Moisture (plastic vial, unpres.)

Common Parameter/Container - Preservation Key
 *1 - Volatile Organics = BTEX, GRO, TPH, Full List
 *2 - Semivolatile Organics = PAHs, PCB, Dioxins, Full List, Herbicide/Pesticide/PCBs
 *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
 *4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

On (see?) Y N
 Date 6/18/09
 Received by: [Signature]
 Air Bill Number: 27c

Number of Containers/Preservative
 Water:
 VOCs (2-oz tared MeOH) *1
 GRO, BTEX (2-oz tared MeOH) *1
 Metals (2-oz unpreserved)
 SVOCS (2 or 4-oz unpres.) *2
 % Moisture (plastic vial, unpres.)

Project Manager: JME
 Project Contact: KJN
 Sampled by: KJJ
 Laboratory: Legend



88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

July 13, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0903080
RE: 23/19-0B05.07

Enclosed are the results of analyses for samples received by the laboratory on 07/01/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
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Erica Nastrom
QA/QC Coordinator
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Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0903080 Date Reported: 07/13/09
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC1-GP1-0.5'	0903080-01	Soil	07/01/09 08:15	07/01/09 14:40
SOC1-GP2-0.5'	0903080-02	Soil	07/01/09 08:30	07/01/09 14:40
SOC1-GP3-0.5'	0903080-03	Soil	07/01/09 09:00	07/01/09 14:40

Shipping Container Information

Default Cooler Temperature (°C):

Received on ice: Yes Temperature blank was not present Received on ice pack: No
 Received on melt water: No Ambient: No Acceptable (IH/ISO only): No
 Custody seals: No

Case Narrative:

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0903080 Date Reported: 07/13/09
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PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP1-0.5' (0903080-01) Soil Sampled: 07/01/09 08:15 Received: 07/01/09 14:40										
% Solids	85			%	1	B9G0605	07/06/09	07/06/09	% calculation	
SOC1-GP2-0.5' (0903080-02) Soil Sampled: 07/01/09 08:30 Received: 07/01/09 14:40										
% Solids	90			%	1	B9G0605	07/06/09	07/06/09	% calculation	
SOC1-GP3-0.5' (0903080-03) Soil Sampled: 07/01/09 09:00 Received: 07/01/09 14:40										
% Solids	78			%	1	B9G0605	07/06/09	07/06/09	% calculation	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05SOC 350 Project Manager: Ms. Kelly Neppl	Work Order #: 0903080 Date Reported: 07/13/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP1-0.5' (0903080-01) Soil Sampled: 07/01/09 08:15 Received: 07/01/09 14:40										
1,1,1,2-Tetrachloroethane	<0.031	0.29	0.031	mg/kg dry	1	B9G0711	07/07/09	07/07/09	EPA 8260B	
1,1,1-Trichloroethane	<0.039	0.29	0.039	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.044	0.29	0.044	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.076	0.29	0.076	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.028	0.29	0.028	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.032	0.29	0.032	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.078	0.59	0.078	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.062	0.29	0.062	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.075	0.59	0.075	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.024	0.29	0.024	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.067	0.59	0.067	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.045	0.29	0.045	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.032	0.29	0.032	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.033	0.29	0.033	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.018	0.29	0.018	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.033	0.29	0.033	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.020	0.29	0.020	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.021	0.29	0.021	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.080	0.59	0.080	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.14	2.4	0.14	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.021	0.29	0.021	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.034	0.29	0.034	mg/kg dry	1	"	"	"	"	
Acetone	<0.38	2.4	0.38	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.079	0.59	0.079	mg/kg dry	1	"	"	"	"	
Benzene	<0.018	0.29	0.018	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.022	0.29	0.022	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.041	0.29	0.041	mg/kg dry	1	"	"	"	"	
Bromoform	<0.094	0.59	0.094	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.16	0.59	0.16	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.032	0.29	0.032	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.086	0.29	0.086	mg/kg dry	1	"	"	"	"	
Chloroform	<0.049	0.29	0.049	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.048	0.29	0.048	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.054	0.29	0.054	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0903080 Date Reported: 07/13/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP1-0.5' (0903080-01) Soil Sampled: 07/01/09 08:15 Received: 07/01/09 14:40										
cis-1,3-Dichloropropene	<0.027	0.29	0.027	mg/kg dry	1	B9G0711	07/07/09	07/07/09	EPA 8260B	
Dibromochloromethane	<0.038	0.29	0.038	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.054	0.29	0.054	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.096	0.59	0.096	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.052	0.29	0.052	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.056	0.59	0.056	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.026	0.29	0.026	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.15	1.2	0.15	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.027	0.29	0.027	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.10	0.59	0.10	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.11	0.59	0.11	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.020	0.29	0.020	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.20	1.2	0.20	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.076	0.59	0.076	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.038	0.29	0.038	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.016	0.29	0.016	mg/kg dry	1	"	"	"	"	
o-Xylene	0.053	0.29	0.036	mg/kg dry	1	"	"	"	"	J
p-Isopropyltoluene	<0.035	0.29	0.035	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.012	0.29	0.012	mg/kg dry	1	"	"	"	"	
Styrene	<0.047	0.29	0.047	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.021	0.29	0.021	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.041	0.29	0.041	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.12	2.4	0.12	mg/kg dry	1	"	"	"	"	
Toluene	<0.033	0.29	0.033	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.026	0.29	0.026	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.041	0.29	0.041	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.047	0.29	0.047	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.038	0.29	0.038	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.027	0.29	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.9			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	91.6			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	97.7			80-120 %		"	"	"	"	

SOC1-GP2-0.5' (0903080-02) Soil Sampled: 07/01/09 08:30 Received: 07/01/09 14:40										
1,1,1,2-Tetrachloroethane	<0.029	0.28	0.029	mg/kg dry	1	B9G0711	07/07/09	07/07/09	EPA 8260B	
1,1,1-Trichloroethane	<0.037	0.28	0.037	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.041	0.28	0.041	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.072	0.28	0.072	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0903080 Date Reported: 07/13/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP2-0.5' (0903080-02) Soil Sampled: 07/01/09 08:30 Received: 07/01/09 14:40										
1,1-Dichloroethane	<0.027	0.28	0.027	mg/kg dry	1	B9G0711	07/07/09	07/07/09	EPA 8260B	
1,1-Dichloroethene	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.030	0.28	0.030	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.073	0.56	0.073	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.059	0.28	0.059	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.071	0.56	0.071	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.022	0.28	0.022	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.063	0.56	0.063	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.042	0.28	0.042	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.030	0.28	0.030	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.031	0.28	0.031	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.017	0.28	0.017	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.031	0.28	0.031	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.019	0.28	0.019	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.020	0.28	0.020	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.076	0.56	0.076	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.13	2.2	0.13	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.020	0.28	0.020	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.032	0.28	0.032	mg/kg dry	1	"	"	"	"	
Acetone	<0.36	2.2	0.36	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.074	0.56	0.074	mg/kg dry	1	"	"	"	"	
Benzene	<0.017	0.28	0.017	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.021	0.28	0.021	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.039	0.28	0.039	mg/kg dry	1	"	"	"	"	
Bromoform	<0.089	0.56	0.089	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.16	0.56	0.16	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.030	0.28	0.030	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.028	0.28	0.028	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.081	0.28	0.081	mg/kg dry	1	"	"	"	"	
Chloroform	<0.047	0.28	0.047	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.046	0.28	0.046	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.051	0.28	0.051	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.026	0.28	0.026	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.036	0.28	0.036	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.051	0.28	0.051	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.091	0.56	0.091	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.049	0.28	0.049	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0903080 Date Reported: 07/13/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP2-0.5' (0903080-02) Soil Sampled: 07/01/09 08:30 Received: 07/01/09 14:40										
Ethyl ether	<0.053	0.56	0.053	mg/kg dry	1	B9G0711	07/07/09	07/07/09	EPA 8260B	
Ethylbenzene	<0.024	0.28	0.024	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.14	1.1	0.14	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.026	0.28	0.026	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.098	0.56	0.098	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.10	0.56	0.10	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.019	0.28	0.019	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.19	1.1	0.19	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.072	0.56	0.072	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.036	0.28	0.036	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.016	0.28	0.016	mg/kg dry	1	"	"	"	"	
o-Xylene	0.050	0.28	0.034	mg/kg dry	1	"	"	"	"	J
p-Isopropyltoluene	<0.033	0.28	0.033	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.011	0.28	0.011	mg/kg dry	1	"	"	"	"	
Styrene	<0.044	0.28	0.044	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.020	0.28	0.020	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.039	0.28	0.039	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.11	2.2	0.11	mg/kg dry	1	"	"	"	"	
Toluene	<0.031	0.28	0.031	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.024	0.28	0.024	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.039	0.28	0.039	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.044	0.28	0.044	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.036	0.28	0.036	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.026	0.28	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.0			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	90.1			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	95.4			80-120 %		"	"	"	"	

SOC1-GP3-0.5' (0903080-03) Soil Sampled: 07/01/09 09:00 Received: 07/01/09 14:40										
1,1,1,2-Tetrachloroethane	<0.033	0.32	0.033	mg/kg dry	1	B9G0711	07/07/09	07/07/09	EPA 8260B	
1,1,1-Trichloroethane	<0.042	0.32	0.042	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.032	0.32	0.032	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.047	0.32	0.047	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.083	0.32	0.083	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.031	0.32	0.031	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.032	0.32	0.032	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.035	0.32	0.035	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.085	0.64	0.085	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.068	0.32	0.068	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05SOC 350 Project Manager: Ms. Kelly Neppl	Work Order #: 0903080 Date Reported: 07/13/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC1-GP3-0.5' (0903080-03) Soil Sampled: 07/01/09 09:00 Received: 07/01/09 14:40

1,2,4-Trichlorobenzene	<0.082	0.64	0.082	mg/kg dry	1	B9G0711	07/07/09	07/07/09	EPA 8260B	
1,2,4-Trimethylbenzene	<0.026	0.32	0.026	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.073	0.64	0.073	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.049	0.32	0.049	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.035	0.32	0.035	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.032	0.32	0.032	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.036	0.32	0.036	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.019	0.32	0.019	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.036	0.32	0.036	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.022	0.32	0.022	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.023	0.32	0.023	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.087	0.64	0.087	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.15	2.6	0.15	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.023	0.32	0.023	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.037	0.32	0.037	mg/kg dry	1	"	"	"	"	
Acetone	<0.41	2.6	0.41	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.086	0.64	0.086	mg/kg dry	1	"	"	"	"	
Benzene	<0.019	0.32	0.019	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.024	0.32	0.024	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.032	0.32	0.032	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.045	0.32	0.045	mg/kg dry	1	"	"	"	"	
Bromoform	<0.10	0.64	0.10	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.18	0.64	0.18	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.035	0.32	0.035	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.032	0.32	0.032	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.094	0.32	0.094	mg/kg dry	1	"	"	"	"	
Chloroform	<0.054	0.32	0.054	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.053	0.32	0.053	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.059	0.32	0.059	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.029	0.32	0.029	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.041	0.32	0.041	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.059	0.32	0.059	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.11	0.64	0.11	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.056	0.32	0.056	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.062	0.64	0.062	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.028	0.32	0.028	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.17	1.3	0.17	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.029	0.32	0.029	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.11	0.64	0.11	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0903080 Date Reported: 07/13/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP3-0.5' (0903080-03) Soil Sampled: 07/01/09 09:00 Received: 07/01/09 14:40										
Methyl isobutyl ketone	<0.12	0.64	0.12	mg/kg dry	1	B9G0711	07/07/09	07/07/09	EPA 8260B	
Methyl tert-butyl ether	<0.022	0.32	0.022	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.22	1.3	0.22	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.083	0.64	0.083	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.041	0.32	0.041	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.018	0.32	0.018	mg/kg dry	1	"	"	"	"	
o-Xylene	0.053	0.32	0.040	mg/kg dry	1	"	"	"	"	J
p-Isopropyltoluene	<0.038	0.32	0.038	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.013	0.32	0.013	mg/kg dry	1	"	"	"	"	
Styrene	<0.051	0.32	0.051	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.023	0.32	0.023	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.045	0.32	0.045	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.13	2.6	0.13	mg/kg dry	1	"	"	"	"	
Toluene	<0.036	0.32	0.036	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.028	0.32	0.028	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.045	0.32	0.045	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.051	0.32	0.051	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.041	0.32	0.041	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.029	0.32	0.029	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	91.9			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	98.8			80-120 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05SOC 350 Project Manager: Ms. Kelly Neppl	Work Order #: 0903080 Date Reported: 07/13/09
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PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9G0605 - General Preparation											
Duplicate (B9G0605-DUP1)											
% Solids	88.0			%		89.0			1.13	20	
Duplicate (B9G0605-DUP2)											
% Solids	93.0			%		92.0			1.08	20	
Duplicate (B9G0605-DUP3)											
% Solids	93.0			%		93.0			0.00	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05SOC 350 Project Manager: Ms. Kelly Neppl	Work Order #: 0903080 Date Reported: 07/13/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9G0711 - Volatiles

Blank (B9G0711-BLK1)

Prepared & Analyzed: 07/07/09

1,1,1,2-Tetrachloroethane	< 0.026	0.25	0.026	mg/kg wet							
1,1,1-Trichloroethane	< 0.033	0.25	0.033	mg/kg wet							
1,1,2,2-Tetrachloroethane	< 0.025	0.25	0.025	mg/kg wet							
1,1,2-Trichloroethane	< 0.037	0.25	0.037	mg/kg wet							
1,1,2-Trichlorotrifluoroethane	< 0.065	0.25	0.065	mg/kg wet							
1,1-Dichloroethane	< 0.024	0.25	0.024	mg/kg wet							
1,1-Dichloroethene	< 0.025	0.25	0.025	mg/kg wet							
1,1-Dichloropropene	< 0.027	0.25	0.027	mg/kg wet							
1,2,3-Trichlorobenzene	< 0.066	0.50	0.066	mg/kg wet							
1,2,3-Trichloropropane	< 0.053	0.25	0.053	mg/kg wet							
1,2,4-Trichlorobenzene	< 0.064	0.50	0.064	mg/kg wet							
1,2,4-Trimethylbenzene	< 0.020	0.25	0.020	mg/kg wet							
1,2-Dibromo-3-chloropropane	< 0.057	0.50	0.057	mg/kg wet							
1,2-Dibromoethane (EDB)	< 0.038	0.25	0.038	mg/kg wet							
1,2-Dichlorobenzene	< 0.027	0.25	0.027	mg/kg wet							
1,2-Dichloroethane	< 0.025	0.25	0.025	mg/kg wet							
1,2-Dichloropropane	< 0.028	0.25	0.028	mg/kg wet							
1,3,5-Trimethylbenzene	< 0.015	0.25	0.015	mg/kg wet							
1,3-Dichlorobenzene	< 0.028	0.25	0.028	mg/kg wet							
1,3-Dichloropropane	< 0.017	0.25	0.017	mg/kg wet							
1,4-Dichlorobenzene	< 0.018	0.25	0.018	mg/kg wet							
2,2-Dichloropropane	< 0.068	0.50	0.068	mg/kg wet							
2-Butanone	< 0.12	2.0	0.12	mg/kg wet							
2-Chlorotoluene	< 0.018	0.25	0.018	mg/kg wet							
4-Chlorotoluene	< 0.029	0.25	0.029	mg/kg wet							
Acetone	< 0.32	2.0	0.32	mg/kg wet							
Allyl chloride	< 0.067	0.50	0.067	mg/kg wet							
Benzene	< 0.015	0.25	0.015	mg/kg wet							
Bromobenzene	< 0.019	0.25	0.019	mg/kg wet							
Bromochloromethane	< 0.025	0.25	0.025	mg/kg wet							
Bromodichloromethane	< 0.035	0.25	0.035	mg/kg wet							
Bromoform	< 0.080	0.50	0.080	mg/kg wet							
Bromomethane	< 0.14	0.50	0.14	mg/kg wet							
Carbon tetrachloride	< 0.027	0.25	0.027	mg/kg wet							
Chlorobenzene	< 0.025	0.25	0.025	mg/kg wet							
Chloroethane	< 0.073	0.25	0.073	mg/kg wet							
Chloroform	< 0.042	0.25	0.042	mg/kg wet							
Chloromethane	< 0.041	0.25	0.041	mg/kg wet							
cis-1,2-Dichloroethene	< 0.046	0.25	0.046	mg/kg wet							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05SOC 350 Project Manager: Ms. Kelly Neppl	Work Order #: 0903080 Date Reported: 07/13/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9G0711 - Volatiles

Blank (B9G0711-BLK1)

Prepared & Analyzed: 07/07/09

cis-1,3-Dichloropropene	< 0.023	0.25	0.023	mg/kg wet							
Dibromochloromethane	< 0.032	0.25	0.032	mg/kg wet							
Dibromomethane	< 0.046	0.25	0.046	mg/kg wet							
Dichlorodifluoromethane	< 0.082	0.50	0.082	mg/kg wet							
Dichlorofluoromethane	< 0.044	0.25	0.044	mg/kg wet							
Ethyl ether	< 0.048	0.50	0.048	mg/kg wet							
Ethylbenzene	< 0.022	0.25	0.022	mg/kg wet							
Hexachlorobutadiene	< 0.13	1.0	0.13	mg/kg wet							
Isopropylbenzene	< 0.023	0.25	0.023	mg/kg wet							
m,p-Xylene	< 0.088	0.50	0.088	mg/kg wet							
Methyl isobutyl ketone	< 0.092	0.50	0.092	mg/kg wet							
Methyl tert-butyl ether	< 0.017	0.25	0.017	mg/kg wet							
Methylene chloride	< 0.17	1.0	0.17	mg/kg wet							
Naphthalene	< 0.065	0.50	0.065	mg/kg wet							
n-Butylbenzene	< 0.032	0.25	0.032	mg/kg wet							
n-Propylbenzene	< 0.014	0.25	0.014	mg/kg wet							
o-Xylene	< 0.031	0.25	0.031	mg/kg wet							
p-Isopropyltoluene	< 0.030	0.25	0.030	mg/kg wet							
sec-Butylbenzene	< 0.010	0.25	0.010	mg/kg wet							
Styrene	< 0.040	0.25	0.040	mg/kg wet							
tert-Butylbenzene	< 0.018	0.25	0.018	mg/kg wet							
Tetrachloroethene	< 0.035	0.25	0.035	mg/kg wet							
Tetrahydrofuran	< 0.10	2.0	0.10	mg/kg wet							
Toluene	< 0.028	0.25	0.028	mg/kg wet							
trans-1,2-Dichloroethene	< 0.022	0.25	0.022	mg/kg wet							
trans-1,3-Dichloropropene	< 0.035	0.25	0.035	mg/kg wet							
Trichloroethene	< 0.040	0.25	0.040	mg/kg wet							
Trichlorofluoromethane	< 0.032	0.25	0.032	mg/kg wet							
Vinyl chloride	< 0.023	0.25	0.023	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	47.9			ug/L	50.0		95.9	80-120			
Surrogate: Dibromofluoromethane	46.2			ug/L	50.0		92.4	80-120			
Surrogate: Toluene-d8	49.2			ug/L	50.0		98.4	80-120			

LCS (B9G0711-BS1)

Prepared & Analyzed: 07/07/09

1,1,2,2-Tetrachloroethane	58.3			ug/L	50.0		117	80-120			
1,1-Dichloroethane	54.7			ug/L	50.0		109	78.8-120			
1,1-Dichloroethene	55.5			ug/L	50.0		111	75-125			
1,3,5-Trimethylbenzene	49.5			ug/L	50.0		98.9	80-120			
1,4-Dichlorobenzene	51.2			ug/L	50.0		102	75-125			
2-Chlorotoluene	51.4			ug/L	50.0		103	80-120			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05SOC 350 Project Manager: Ms. Kelly Nepl	Work Order #: 0903080 Date Reported: 07/13/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9G0711 - Volatiles

LCS (B9G0711-BS1)

Prepared & Analyzed: 07/07/09

Benzene	50.3			ug/L	50.0		101	80-120			
Bromoform	44.6			ug/L	50.0		89.3	77.1-125			
Chlorobenzene	48.4			ug/L	50.0		96.9	80-120			
Chloroform	54.1			ug/L	50.0		108	77.3-120			
Ethylbenzene	49.6			ug/L	50.0		99.3	80-120			
n-Butylbenzene	56.7			ug/L	50.0		113	70.1-125			
n-Propylbenzene	51.1			ug/L	50.0		102	75-120			
Toluene	53.5			ug/L	50.0		107	80-120			
Trichloroethene	49.6			ug/L	50.0		99.2	80-120			
Vinyl chloride	55.8			ug/L	50.0		112	70-130			
Surrogate: 4-Bromofluorobenzene	50.2			ug/L	50.0		100	80-120			
Surrogate: Dibromofluoromethane	45.3			ug/L	50.0		90.5	80-120			
Surrogate: Toluene-d8	49.4			ug/L	50.0		98.8	80-120			

Matrix Spike (B9G0711-MS1)

Source: 0903080-01

Prepared & Analyzed: 07/07/09

1,1,2,2-Tetrachloroethane	58.8			ug/L	50.0	<	118	80-120			
1,1-Dichloroethane	55.2			ug/L	50.0	<	110	77.5-120			
1,1-Dichloroethene	51.3			ug/L	50.0	<	103	76.1-125			
1,3,5-Trimethylbenzene	51.0			ug/L	50.0	<	102	80-120			
1,4-Dichlorobenzene	52.1			ug/L	50.0	<	104	75-125			
2-Chlorotoluene	51.6			ug/L	50.0	<	103	76.9-120			
Benzene	50.2			ug/L	50.0	<	100	80-120			
Bromoform	44.4			ug/L	50.0	<	88.7	80-125			
Chlorobenzene	48.2			ug/L	50.0	<	96.4	80-120			
Chloroform	54.2			ug/L	50.0	<	108	80-120			
Ethylbenzene	50.3			ug/L	50.0	0.146	100	80-120			
n-Butylbenzene	55.7			ug/L	50.0	<	111	74.7-125			
n-Propylbenzene	52.2			ug/L	50.0	<	104	75-120			
Toluene	52.6			ug/L	50.0	<	105	80-120			
Trichloroethene	49.6			ug/L	50.0	<	99.2	80-120			
Vinyl chloride	52.3			ug/L	50.0	<	105	70-125			
Surrogate: 4-Bromofluorobenzene	49.5			ug/L	50.0		98.9	80-120			
Surrogate: Dibromofluoromethane	45.5			ug/L	50.0		91.0	80-120			
Surrogate: Toluene-d8	49.3			ug/L	50.0		98.7	80-120			

Matrix Spike Dup (B9G0711-MSD1)

Source: 0903080-01

Prepared & Analyzed: 07/07/09

1,1,2,2-Tetrachloroethane	57.2			ug/L	50.0	<	114	80-120	2.60	20	
1,1-Dichloroethane	54.4			ug/L	50.0	<	109	77.5-120	1.48	20	
1,1-Dichloroethene	52.2			ug/L	50.0	<	104	76.1-125	1.73	20	
1,3,5-Trimethylbenzene	48.4			ug/L	50.0	<	96.8	80-120	5.12	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-B05SOC 350 Project Manager: Ms. Kelly Neppi	Work Order #: 0903080 Date Reported: 07/13/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9G0711 - Volatiles											
Matrix Spike Dup (B9G0711-MSD1)		Source: 0903080-01				Prepared & Analyzed: 07/07/09					
1,4-Dichlorobenzene	50.7			ug/L	50.0	<	101	75-125	2.80	20	
2-Chlorotoluene	49.4			ug/L	50.0	<	98.9	76.9-120	4.33	20	
Benzene	50.5			ug/L	50.0	<	101	80-120	0.604	20	
Bromoform	44.1			ug/L	50.0	<	88.3	80-125	0.530	20	
Chlorobenzene	48.1			ug/L	50.0	<	96.2	80-120	0.216	20	
Chloroform	54.1			ug/L	50.0	<	108	80-120	0.223	20	
Ethylbenzene	49.9			ug/L	50.0	0.146	99.4	80-120	0.873	20	
n-Butylbenzene	54.3			ug/L	50.0	<	109	74.7-125	2.57	20	
n-Propylbenzene	49.2			ug/L	50.0	<	98.3	75-120	6.06	20	
Toluene	53.3			ug/L	50.0	<	107	80-120	1.25	20	
Trichloroethene	49.4			ug/L	50.0	<	98.8	80-120	0.399	20	
Vinyl chloride	53.4			ug/L	50.0	<	107	70-125	2.07	20	
Surrogate: 4-Bromofluorobenzene	50.5			ug/L	50.0		101	80-120			
Surrogate: Dibromofluoromethane	46.3			ug/L	50.0		92.5	80-120			
Surrogate: Toluene-d8	48.5			ug/L	50.0		97.0	80-120			

Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Project: 23/19-0B05.07
Project Number: 23/19-B05SOC 350
Project Manager: Ms. Kelly Neppl

Work Order #: 0903080
Date Reported: 07/13/09

Notes and Definitions

J Parameter was present between the MDL and RL and should be considered an estimated value
< Less than value listed
dry Sample results reported on a dry weight basis
NA Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL Method Detection Limit
RL Reporting Limit
RPD Relative Percent Difference
LCS Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS Matrix Spike = Laboratory Fortified Matrix (LFM)

HLRSLGTD FORMS/Chain of Custody Form RLS Rev 07/01/05

0 69103080

Chain of Custody

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

BARR

Project Number

23 / 19 - 60566 - 350

Project Name

UVA PH2 Investigation No 28080

Sample Identification

1 Scc1-CP1-C5 7/1/09 815

2 Scc1-CP2-C5 830

3 Scc1-CP3-C5 900

4

5

6

7

8

9

10

11

12

Matrix Type

Water

Soil

OC

Comp

Grab

Matrix

Type

Collection

Date

Time

Remarks

2 Analyze VOC

↓

Number of Containers/Preservative		Soil		Water		Received By:		Time	
Water	Soil	Received By:	Date	Received By:	Date	Time	Date	Time	
<input type="checkbox"/> VOCs (2-oz lated MeOH) *1 <input type="checkbox"/> VOCs (2-oz lated MeOH) *2 <input type="checkbox"/> GRO, BTEX (2-oz lated MeOH) *3 <input type="checkbox"/> DRO (2-oz unperf) *4 <input type="checkbox"/> Metals (2-oz unperf) *5 <input type="checkbox"/> SVOCs (2 or 4-oz unperf) *6 <input type="checkbox"/> % Moisture (plastic vial, unperf) *7	<input type="checkbox"/> VOCs (2-oz lated MeOH) *1 <input type="checkbox"/> VOCs (2-oz lated MeOH) *2 <input type="checkbox"/> GRO, BTEX (2-oz lated MeOH) *3 <input type="checkbox"/> DRO (2-oz unperf) *4 <input type="checkbox"/> Metals (2-oz unperf) *5 <input type="checkbox"/> SVOCs (2 or 4-oz unperf) *6 <input type="checkbox"/> % Moisture (plastic vial, unperf) *7	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	7/1/09	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	7/1/09	1100	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	7/1/09	1440

COC 1 of 1
Project Manager: JME/JJA
Project Contact: KJN/MJH
Sampled by: KUS
Laboratory: Legend

Common Parameter/Container - Preservation Key
 *1 - Volatile Organics = BTEX, GRO, TPH, Full List
 *2 - Semivolatile Organics = PAHs, PCB, Dioxins, Full List, Hericoid/Preroid/PCBs
 *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TN, Sulfate
 *4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Samples Shipped Via: Air Freight Federal Express Sampler
 Other

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator RR



88 Empire Drive
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Tel: 651-642-1150
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July 31, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0903437
RE: 23/19-0B05.07

Enclosed are the results of analyses for samples received by the laboratory on 06/12/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
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Erica Nastrom
QA/QC Coordinator
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Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0903437 Date Reported: 07/31/09
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS1	0903437-01	Soil	06/11/09 15:00	06/12/09 13:30
SS2	0903437-02	Soil	06/11/09 15:30	06/12/09 13:30
SS3	0903437-03	Soil	06/11/09 15:45	06/12/09 13:30
SS4	0903437-04	Soil	06/11/09 16:15	06/12/09 13:30
SS5	0903437-05	Soil	06/11/09 17:10	06/12/09 13:30

Shipping Container Information

Default Cooler Temperature (°C): 8.3

Received on ice: Yes Temperature blank was present Received on ice pack: No
 Received on melt water: No Ambient: No Acceptable (IH/ISO only): No
 Custody seals: No

Case Narrative:

This report consists of the ICP-AES reanalyses for samples SS1, SS2, SS3, SS4, and SS5.

Antimony recovery in the MSD sample for batch B9G2905 was below laboratory control limits. Recoveries in the LCS/LCSD/MS samples and the corresponding RPDs were within limits. The MS/MSD source sample was not associated with this work order.

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0903437 Date Reported: 07/31/09
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TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS1 (0903437-01) Soil Sampled: 06/11/09 15:00 Received: 06/12/09 13:30										
Antimony	<0.64	0.64	0.0071	mg/kg dry	1	B9G2905	07/29/09	07/31/09	EPA 6010B	
Arsenic	5.7	0.64	0.13	mg/kg dry	1	"	"	07/29/09	"	
Beryllium	<0.32	0.32	0.014	mg/kg dry	1	"	"	"	"	
Cadmium	<0.32	0.32	0.032	mg/kg dry	1	"	"	"	"	
Chromium	14	0.64	0.015	mg/kg dry	1	"	"	"	"	
Copper	9.8	1.3	0.090	mg/kg dry	1	"	"	"	"	
Lead	13	1.3	0.044	mg/kg dry	1	"	"	"	"	
Nickel	13	0.64	0.018	mg/kg dry	1	"	"	"	"	
Selenium	<1.3	1.3	0.14	mg/kg dry	1	"	"	"	"	
Silver	<0.32	0.32	0.012	mg/kg dry	1	"	"	"	"	
Thallium	<2.6	2.6	0.17	mg/kg dry	1	"	"	"	"	
Zinc	49	1.3	0.28	mg/kg dry	1	"	"	"	"	

SS2 (0903437-02) Soil Sampled: 06/11/09 15:30 Received: 06/12/09 13:30										
Antimony	<0.66	0.66	0.0072	mg/kg dry	1	B9G2905	07/29/09	07/31/09	EPA 6010B	
Arsenic	5.6	0.66	0.13	mg/kg dry	1	"	"	07/29/09	"	
Beryllium	<0.33	0.33	0.014	mg/kg dry	1	"	"	"	"	
Cadmium	<0.33	0.33	0.033	mg/kg dry	1	"	"	"	"	
Chromium	14	0.66	0.016	mg/kg dry	1	"	"	"	"	
Copper	11	1.3	0.092	mg/kg dry	1	"	"	"	"	
Lead	14	1.3	0.045	mg/kg dry	1	"	"	"	"	
Nickel	14	0.66	0.018	mg/kg dry	1	"	"	"	"	
Selenium	<1.3	1.3	0.14	mg/kg dry	1	"	"	"	"	
Silver	<0.33	0.33	0.012	mg/kg dry	1	"	"	"	"	
Thallium	<2.6	2.6	0.17	mg/kg dry	1	"	"	"	"	
Zinc	58	1.3	0.29	mg/kg dry	1	"	"	"	"	

SS3 (0903437-03) Soil Sampled: 06/11/09 15:45 Received: 06/12/09 13:30										
Antimony	<0.63	0.63	0.0070	mg/kg dry	1	B9G2905	07/29/09	07/31/09	EPA 6010B	
Arsenic	5.9	0.63	0.13	mg/kg dry	1	"	"	07/29/09	"	
Beryllium	<0.32	0.32	0.014	mg/kg dry	1	"	"	"	"	
Cadmium	<0.32	0.32	0.032	mg/kg dry	1	"	"	"	"	
Chromium	15	0.63	0.015	mg/kg dry	1	"	"	"	"	
Copper	8.7	1.3	0.089	mg/kg dry	1	"	"	"	"	
Lead	13	1.3	0.043	mg/kg dry	1	"	"	"	"	
Nickel	13	0.63	0.018	mg/kg dry	1	"	"	"	"	
Selenium	<1.3	1.3	0.14	mg/kg dry	1	"	"	"	"	
Silver	<0.32	0.32	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.5	2.5	0.16	mg/kg dry	1	"	"	"	"	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23/19-0B05.07
 Project Number: 23/19-0B05.07SOC350
 Project Manager: Ms. Kelly Nepl

Work Order #: 0903437
 Date Reported: 07/31/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SS3 (0903437-03) Soil Sampled: 06/11/09 15:45 Received: 06/12/09 13:30

Zinc	46	1.3	0.28	mg/kg dry	1	B9G2905	07/29/09	07/29/09	EPA 6010B	
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SS4 (0903437-04) Soil Sampled: 06/11/09 16:15 Received: 06/12/09 13:30

Antimony	<0.61	0.61	0.0067	mg/kg dry	1	B9G2905	07/29/09	07/31/09	EPA 6010B	
Arsenic	6.0	0.61	0.12	mg/kg dry	1	"	"	07/29/09	"	
Beryllium	<0.30	0.30	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.30	0.30	0.030	mg/kg dry	1	"	"	"	"	
Chromium	15	0.61	0.015	mg/kg dry	1	"	"	"	"	
Copper	9.0	1.2	0.085	mg/kg dry	1	"	"	"	"	
Lead	13	1.2	0.041	mg/kg dry	1	"	"	"	"	
Nickel	13	0.61	0.017	mg/kg dry	1	"	"	"	"	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Silver	<0.30	0.30	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.4	2.4	0.16	mg/kg dry	1	"	"	"	"	
Zinc	43	1.2	0.27	mg/kg dry	1	"	"	"	"	

SS5 (0903437-05) Soil Sampled: 06/11/09 17:10 Received: 06/12/09 13:30

Antimony	<0.63	0.63	0.0070	mg/kg dry	1	B9G2905	07/29/09	07/31/09	EPA 6010B	
Arsenic	6.4	0.63	0.13	mg/kg dry	1	"	"	07/29/09	"	
Beryllium	<0.32	0.32	0.014	mg/kg dry	1	"	"	"	"	
Cadmium	<0.32	0.32	0.032	mg/kg dry	1	"	"	"	"	
Chromium	15	0.63	0.015	mg/kg dry	1	"	"	"	"	
Copper	9.5	1.3	0.089	mg/kg dry	1	"	"	"	"	
Lead	14	1.3	0.043	mg/kg dry	1	"	"	"	"	
Nickel	14	0.63	0.018	mg/kg dry	1	"	"	"	"	
Selenium	<1.3	1.3	0.14	mg/kg dry	1	"	"	"	"	
Silver	<0.32	0.32	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.5	2.5	0.16	mg/kg dry	1	"	"	"	"	
Zinc	45	1.3	0.28	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0903437 Date Reported: 07/31/09
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PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS1 (0903437-01) Soil Sampled: 06/11/09 15:00 Received: 06/12/09 13:30										
% Solids	78			%	1	B9F1803	06/18/09	07/29/09	% calculation	
SS2 (0903437-02) Soil Sampled: 06/11/09 15:30 Received: 06/12/09 13:30										
% Solids	76			%	1	B9F1803	06/18/09	07/29/09	% calculation	
SS3 (0903437-03) Soil Sampled: 06/11/09 15:45 Received: 06/12/09 13:30										
% Solids	79			%	1	B9F1803	06/18/09	07/29/09	% calculation	
SS4 (0903437-04) Soil Sampled: 06/11/09 16:15 Received: 06/12/09 13:30										
% Solids	82			%	1	B9F1803	06/18/09	07/29/09	% calculation	
SS5 (0903437-05) Soil Sampled: 06/11/09 17:10 Received: 06/12/09 13:30										
% Solids	79			%	1	B9F1803	06/18/09	07/29/09	% calculation	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0903437 Date Reported: 07/31/09
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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9G2905 - EPA 3050B

Blank (B9G2905-BLK1)

Prepared: 07/29/09 Analyzed: 07/31/09

Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							

LCS (B9G2905-BS1)

Prepared: 07/29/09 Analyzed: 07/31/09

Antimony	40.5	0.50	0.0055	mg/kg wet	39.9		101	80-120			
Arsenic	38.3	0.50	0.10	mg/kg wet	39.9		95.9	80-120			
Beryllium	4.21	0.25	0.011	mg/kg wet	3.99		106	80-120			
Cadmium	42.8	0.25	0.025	mg/kg wet	39.9		107	80-120			
Chromium	42.4	0.50	0.012	mg/kg wet	39.9		106	80-120			
Copper	42.0	1.0	0.070	mg/kg wet	39.9		105	80-120			
Lead	43.0	1.0	0.034	mg/kg wet	39.9		108	80-120			
Nickel	42.6	0.50	0.014	mg/kg wet	39.9		107	80-120			
Selenium	37.9	1.0	0.11	mg/kg wet	39.9		94.9	80-120			
Silver	4.00	0.25	0.0090	mg/kg wet	3.99		100	80-120			
Thallium	42.9	2.0	0.13	mg/kg wet	39.9		108	80-120			
Zinc	43.2	1.0	0.22	mg/kg wet	39.9		108	80-120			

LCS Dup (B9G2905-BSD1)

Prepared: 07/29/09 Analyzed: 07/31/09

Antimony	40.6	0.50	0.0055	mg/kg wet	39.9		102	80-120	0.365	20	
Arsenic	38.6	0.50	0.10	mg/kg wet	39.9		96.9	80-120	0.960	20	
Beryllium	4.16	0.25	0.011	mg/kg wet	3.99		104	80-120	1.10	20	
Cadmium	42.5	0.25	0.025	mg/kg wet	39.9		106	80-120	0.814	20	
Chromium	41.9	0.50	0.012	mg/kg wet	39.9		105	80-120	1.07	20	
Copper	41.6	1.0	0.070	mg/kg wet	39.9		104	80-120	0.754	20	
Lead	42.6	1.0	0.034	mg/kg wet	39.9		107	80-120	0.953	20	
Nickel	41.9	0.50	0.014	mg/kg wet	39.9		105	80-120	1.45	20	
Selenium	38.3	1.0	0.11	mg/kg wet	39.9		95.9	80-120	0.997	20	
Silver	3.98	0.25	0.0090	mg/kg wet	3.99		99.8	80-120	0.477	20	
Thallium	42.5	2.0	0.13	mg/kg wet	39.9		107	80-120	0.906	20	
Zinc	42.6	1.0	0.22	mg/kg wet	39.9		107	80-120	1.43	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0903437 Date Reported: 07/31/09
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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9G2905 - EPA 3050B

Matrix Spike (B9G2905-MS1)

Source: 0903410-01

Prepared: 07/29/09

Analyzed: 07/31/09

Antimony	34.8	0.58	0.0064	mg/kg dry	46.4	<0.58	75.1	75-125			
Arsenic	41.8	0.58	0.12	mg/kg dry	46.4	2.25	85.2	75-125			
Beryllium	4.19	0.29	0.013	mg/kg dry	4.64	<0.29	90.2	75-125			
Cadmium	41.1	0.29	0.029	mg/kg dry	46.4	<0.29	88.5	75-125			
Chromium	54.5	0.58	0.014	mg/kg dry	46.4	10.3	95.2	75-125			
Copper	52.6	1.2	0.081	mg/kg dry	46.4	9.19	93.5	75-125			
Lead	44.4	1.2	0.040	mg/kg dry	46.4	5.02	84.9	75-125			
Nickel	54.6	0.58	0.016	mg/kg dry	46.4	12.4	90.9	75-125			
Selenium	38.0	1.2	0.13	mg/kg dry	46.4	<1.2	80.3	75-125			
Silver	4.01	0.29	0.010	mg/kg dry	4.64	<0.29	86.4	75-125			
Thallium	38.8	2.3	0.15	mg/kg dry	46.4	<2.3	83.5	75-125			
Zinc	74.4	1.2	0.26	mg/kg dry	46.4	28.3	99.4	75-125			

Matrix Spike Dup (B9G2905-MSD1)

Source: 0903410-01

Prepared: 07/29/09

Analyzed: 07/31/09

Antimony	31.2	0.58	0.0064	mg/kg dry	46.4	<0.58	67.3	75-125	10.9	20	M2
Arsenic	41.0	0.58	0.12	mg/kg dry	46.4	2.25	83.5	75-125	1.84	20	
Beryllium	4.17	0.29	0.013	mg/kg dry	4.64	<0.29	89.9	75-125	0.365	20	
Cadmium	41.1	0.29	0.029	mg/kg dry	46.4	<0.29	88.4	75-125	0.0708	20	
Chromium	53.4	0.58	0.014	mg/kg dry	46.4	10.3	92.9	75-125	2.00	20	
Copper	52.3	1.2	0.081	mg/kg dry	46.4	9.19	92.9	75-125	0.543	20	
Lead	43.4	1.2	0.040	mg/kg dry	46.4	5.02	82.7	75-125	2.42	20	
Nickel	55.3	0.58	0.016	mg/kg dry	46.4	12.4	92.4	75-125	1.25	20	
Selenium	37.3	1.2	0.13	mg/kg dry	46.4	<1.2	78.8	75-125	1.93	20	
Silver	3.97	0.29	0.010	mg/kg dry	4.64	<0.29	85.5	75-125	1.06	20	
Thallium	39.2	2.3	0.15	mg/kg dry	46.4	<2.3	84.4	75-125	1.03	20	
Zinc	74.6	1.2	0.26	mg/kg dry	46.4	28.3	99.9	75-125	0.292	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0903437 Date Reported: 07/31/09
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PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9F1803 - General Preparation											
Duplicate (B9F1803-DUP1)											
% Solids	82.0			%		81.0			1.23	20	
Duplicate (B9F1803-DUP2)											
% Solids	84.0			%		85.0			1.18	20	
Duplicate (B9F1803-DUP3)											
% Solids	85.0			%		85.0			0.00	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0903437 Date Reported: 07/31/09
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Notes and Definitions

M2 Matrix spike recovery was low, the associated blank spike recovery was acceptable.
< Less than value listed
dry Sample results reported on a dry weight basis
NA Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL Method Detection Limit
RL Reporting Limit
RPD Relative Percent Difference
LCS Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS Matrix Spike = Laboratory Fortified Matrix (LFM)

LEGEND

Technical Services, Inc.

www.legend-group.com

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Fax: 651-642-1239

0902817

Chain of Custody

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

BARR

Project Number: 23/19-BO5X
Project Name: Wmore Park
NO 28515
S.O.C. 350

Sample Identification	Collection		Matrix Type	
	Date	Time	Water	Soil
1. S0C1-SS1C	6-11-09	1400	X	X
2. SS1	6-11-09	1500	X	X
3. SS2	6-11-09	1530	X	X
4. SS3	6-11-09	1545	X	X
5. SS4	6-11-09	1615	X	X
6. SS5	6-11-09	1700	X	X
7. SS5 (MS)	6-11-09	1705	X	X
8. SS5 (MSD)	6-11-09	1710	X	X

Sample Identification	Collection		Matrix Type		OC
	Date	Time	Water	Soil	
9. SS5 (MSD)	6-11-09	1710	X	X	X
10.					
11.					
12.					

Common Parameter/Container - Preservation Key
 *1 - Volatile Organics = BTEX, GRQ, TPH, Full List
 *2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
 *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
 *4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Number of Containers/Preservative		Remarks
Water	Soil	
Volatile Organics (Pres.) *1 Semivolatile Organics *2 Dissolved Metals (HNO ₃) Total Metals (HNO ₃) General (Unpreserved) *3 Cyanide (NaOH) Nutrients (H ₂ SO ₄) *4 Oil and Grease (H ₂ SO ₄) Sulfide (Zn Acetate) Bacteria (Na ₂ S ₂ O ₃) DRG (HCl)	VOCs (2-oz tared MeOH) *1 GRO, BTEX (2-oz tared MeOH) *1 DRO (2-oz tared) - 25 grams Metals (2-oz unpreserved) *2 SVOCs (2 or 4-oz unpres.) *2 % Moisture (plastic vial, unpres.) Arsenic Total No. Of Containers	Project Manager: <u>SME</u> Project Contact: <u>KJN</u> Sampled by: <u>ESC</u> Laboratory: <u>Legend</u>
VOCs (2-oz tared MeOH) *1: 3 GRO, BTEX (2-oz tared MeOH) *1: 3 DRO (2-oz tared) - 25 grams: 3 Metals (2-oz unpreserved) *2: 11 SVOCs (2 or 4-oz unpres.) *2: 11 % Moisture (plastic vial, unpres.): 11 Arsenic: 11 Total No. Of Containers: 118	VOCs (2-oz tared MeOH) *1: 3 GRO, BTEX (2-oz tared MeOH) *1: 3 DRO (2-oz tared) - 25 grams: 3 Metals (2-oz unpreserved) *2: 11 SVOCs (2 or 4-oz unpres.) *2: 11 % Moisture (plastic vial, unpres.): 11 Arsenic: 11 Total No. Of Containers: 118	Project Manager: <u>SME</u> Project Contact: <u>KJN</u> Sampled by: <u>ESC</u> Laboratory: <u>Legend</u>

Relinquished By	On Ice?	Date	Time	Received by	Date	Time
<u>[Signature]</u>	<input checked="" type="checkbox"/> N	6-11-09	2:30	<u>[Signature]</u>	6/12/09	13:30
<u>[Signature]</u>	<input type="checkbox"/> Y					

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

H:\R\G\STDFORMS\Chain Of Custody Form_RLG_Rev.07/01/05



88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

August 12, 2009

REVISION

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0903498
RE: 23/19-0B05.07

This is a revised report. The details of the revision are listed in the case narrative on the following page.

Enclosed are the results of analyses for samples received by the laboratory on 06/10/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of the original report and then discarded unless other arrangements are made.

Prepared by,
LEGEND TECHNICAL SERVICES, INC

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Client Manager II
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Report Reviewer
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Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0903498 Date Reported: 08/12/09
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GP-DUP-3	0903498-01	Water	06/09/09 10:35	06/10/09 11:37
SOC3-GP2	0903498-02	Water	06/09/09 10:30	06/10/09 11:37
SOC1-GP3	0903498-03	Water	06/09/09 14:00	06/10/09 11:37
SOC3-GP3	0903498-04	Water	06/08/09 17:00	06/10/09 13:37
GP-DUP-3	0903498-05	Water	06/09/09 10:35	06/10/09 11:37
SOC3-GP2	0903498-06	Water	06/09/09 10:30	06/10/09 11:37
SOC1-GP3	0903498-07	Water	06/09/09 14:00	06/10/09 11:37
SOC3-GP3	0903498-08	Water	06/08/09 17:00	06/10/09 13:37

<u>Shipping Container Information</u>		
Default Cooler	Temperature (°C): 4.5	
Received on ice: Yes	Temperature blank was present	Received on ice pack: No
Received on melt water: No	Ambient: No	Acceptable (IH/ISO only): No
Custody seals: No		
Received 06/09/09 1337	Temperature (°C): 5.7	
Received on ice: Yes	Temperature blank was present	Received on ice pack: No
Received on melt water: No	Ambient: No	Acceptable (IH/ISO only): No
Custody seals: No		

Case Narrative:

This report includes the reanalysis of the ICP digests for GP-DUP-3, SOC3-GP2, SOC1-GP3, and SOC-GP3 and the reanalysis of the samples for mercury.

This report was revised on August 12, 2009 to include the results for the samples above after they were refiltered then digested and analyzed. Upon reviewing the reanalysis of the samples and noting the results were similar to the previous, the digests were visually compared to see if any differences were seen. It appeared that some of the samples (SOC3-GP2, SOC1-GP3, and SOC-GP3) were cloudy and had more sediment than typically seen with filtered samples. Two possibilities may be sample seeping around the filter if not filtered slowly or filter breakthrough. These samples were set up again at the request of the Barr Client Manager at Legend. The samples were analyzed and reported as samples -05, -06, -07, and -08 respectively.

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0903498 Date Reported: 08/12/09
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DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-DUP-3 (0903498-01) Water Sampled: 06/09/09 10:35 Received: 06/10/09 11:37										F-01
Arsenic	<0.010	0.010	0.0020	mg/L	1	B9H1006	08/10/09	08/10/09	EPA 6010B (Dissolved)	
Cadmium	<0.0010	0.0010	0.000099	mg/L	1	"	"	"	"	
Chromium	0.047	0.010	0.00024	mg/L	1	"	"	"	"	
Copper	<0.020	0.020	0.0014	mg/L	1	"	"	"	"	
Lead	<0.0030	0.0030	0.00068	mg/L	1	"	"	"	"	
Mercury	<0.00020	0.00020	0.000018	mg/L	1	B9H0604	08/06/09	08/07/09	EPA 7470A (Dissolved)	H1
Nickel	0.015	0.0050	0.00028	mg/L	1	B9H1006	08/10/09	08/10/09	EPA 6010B (Dissolved)	
Selenium	<0.020	0.020	0.0022	mg/L	1	"	"	"	"	
Silver	<0.0050	0.0050	0.00018	mg/L	1	"	"	"	"	
Zinc	0.053	0.020	0.0044	mg/L	1	"	"	"	"	
SOC3-GP2 (0903498-02) Water Sampled: 06/09/09 10:30 Received: 06/10/09 11:37										F-01
Arsenic	0.061	0.010	0.0020	mg/L	1	B9H1006	08/10/09	08/10/09	EPA 6010B (Dissolved)	
Cadmium	0.0027	0.0010	0.000099	mg/L	1	"	"	"	"	
Chromium	0.44	0.010	0.00024	mg/L	1	"	"	"	"	
Copper	0.23	0.020	0.0014	mg/L	1	"	"	"	"	
Lead	0.074	0.0030	0.00068	mg/L	1	"	"	"	"	
Mercury	<0.00020	0.00020	0.000018	mg/L	1	B9H0604	08/06/09	08/07/09	EPA 7470A (Dissolved)	H1
Nickel	0.27	0.0050	0.00028	mg/L	1	B9H1006	08/10/09	08/10/09	EPA 6010B (Dissolved)	
Selenium	<0.020	0.020	0.0022	mg/L	1	"	"	"	"	
Silver	<0.0050	0.0050	0.00018	mg/L	1	"	"	"	"	
Zinc	0.42	0.020	0.0044	mg/L	1	"	"	"	"	
SOC1-GP3 (0903498-03) Water Sampled: 06/09/09 14:00 Received: 06/10/09 11:37										F-01
Arsenic	0.20	0.010	0.0020	mg/L	1	B9H1006	08/10/09	08/10/09	EPA 6010B (Dissolved)	
Cadmium	0.0055	0.0010	0.000099	mg/L	1	"	"	"	"	
Chromium	0.64	0.010	0.00024	mg/L	1	"	"	"	"	
Copper	1.0	0.020	0.0014	mg/L	1	"	"	"	"	
Lead	0.21	0.0030	0.00068	mg/L	1	"	"	"	"	
Mercury	<0.00020	0.00020	0.000018	mg/L	1	B9H0604	08/06/09	08/07/09	EPA 7470A (Dissolved)	H1
Nickel	0.67	0.0050	0.00028	mg/L	1	B9H1006	08/10/09	08/10/09	EPA 6010B (Dissolved)	
Selenium	<0.020	0.020	0.0022	mg/L	1	"	"	"	"	
Silver	<0.0050	0.0050	0.00018	mg/L	1	"	"	"	"	
Zinc	1.3	0.020	0.0044	mg/L	1	"	"	"	"	
SOC3-GP3 (0903498-04) Water Sampled: 06/08/09 17:00 Received: 06/10/09 13:37										F-01

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0903498 Date Reported: 08/12/09
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DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-GP3 (0903498-04) Water Sampled: 06/08/09 17:00 Received: 06/10/09 13:37										F-01
Arsenic	<0.010	0.010	0.0020	mg/L	1	B9H1006	08/10/09	08/10/09	EPA 6010B (Dissolved)	
Cadmium	0.0089	0.0010	0.000099	mg/L	1	"	"	"	"	
Chromium	0.077	0.010	0.00024	mg/L	1	"	"	"	"	
Copper	0.098	0.020	0.0014	mg/L	1	"	"	"	"	
Lead	0.0074	0.0030	0.00068	mg/L	1	"	"	"	"	
Mercury	<0.00020	0.00020	0.000018	mg/L	1	B9H0604	08/06/09	08/07/09	EPA 7470A (Dissolved)	H1
Nickel	0.090	0.0050	0.00028	mg/L	1	B9H1006	08/10/09	08/10/09	EPA 6010B (Dissolved)	
Selenium	<0.020	0.020	0.0022	mg/L	1	"	"	"	"	
Silver	<0.0050	0.0050	0.00018	mg/L	1	"	"	"	"	
Zinc	0.11	0.020	0.0044	mg/L	1	"	"	"	"	
GP-DUP-3 (0903498-05) Water Sampled: 06/09/09 10:35 Received: 06/10/09 11:37										F-01
Arsenic	<0.010	0.010	0.0020	mg/L	1	B9H0703	08/07/09	08/11/09	EPA 6010B (Dissolved)	
Cadmium	<0.0010	0.0010	0.000099	mg/L	1	"	"	"	"	
Chromium	<0.010	0.010	0.00024	mg/L	1	"	"	"	"	
Copper	<0.020	0.020	0.0014	mg/L	1	"	"	"	"	
Lead	<0.0030	0.0030	0.00068	mg/L	1	"	"	"	"	
Nickel	<0.0050	0.0050	0.00028	mg/L	1	"	"	"	"	
Selenium	<0.020	0.020	0.0022	mg/L	1	"	"	"	"	
Silver	<0.0050	0.0050	0.00018	mg/L	1	"	"	"	"	
Zinc	<0.020	0.020	0.0044	mg/L	1	"	"	"	"	
SOC3-GP2 (0903498-06) Water Sampled: 06/09/09 10:30 Received: 06/10/09 11:37										F-01
Arsenic	<0.010	0.010	0.0020	mg/L	1	B9H0703	08/07/09	08/11/09	EPA 6010B (Dissolved)	
Cadmium	<0.0010	0.0010	0.000099	mg/L	1	"	"	"	"	
Chromium	<0.010	0.010	0.00024	mg/L	1	"	"	"	"	
Copper	<0.020	0.020	0.0014	mg/L	1	"	"	"	"	
Lead	<0.0030	0.0030	0.00068	mg/L	1	"	"	"	"	
Nickel	<0.0050	0.0050	0.00028	mg/L	1	"	"	"	"	
Selenium	<0.020	0.020	0.0022	mg/L	1	"	"	"	"	
Silver	<0.0050	0.0050	0.00018	mg/L	1	"	"	"	"	
Zinc	<0.020	0.020	0.0044	mg/L	1	"	"	"	"	
SOC1-GP3 (0903498-07) Water Sampled: 06/09/09 14:00 Received: 06/10/09 11:37										F-01
Arsenic	<0.010	0.010	0.0020	mg/L	1	B9H0703	08/07/09	08/11/09	EPA 6010B (Dissolved)	
Cadmium	<0.0010	0.0010	0.000099	mg/L	1	"	"	"	"	
Chromium	<0.010	0.010	0.00024	mg/L	1	"	"	"	"	
Copper	<0.020	0.020	0.0014	mg/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0903498 Date Reported: 08/12/09
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DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP3 (0903498-07) Water Sampled: 06/09/09 14:00 Received: 06/10/09 11:37										F-01
Lead	<0.0030	0.0030	0.00068	mg/L	1	B9H0703	08/07/09	08/11/09	EPA 6010B (Dissolved)	
Nickel	<0.0050	0.0050	0.00028	mg/L	1	"	"	"	"	
Selenium	<0.020	0.020	0.0022	mg/L	1	"	"	"	"	
Silver	<0.0050	0.0050	0.00018	mg/L	1	"	"	"	"	
Zinc	<0.020	0.020	0.0044	mg/L	1	"	"	"	"	
SOC3-GP3 (0903498-08) Water Sampled: 06/08/09 17:00 Received: 06/10/09 13:37										F-01
Arsenic	<0.010	0.010	0.0020	mg/L	1	B9H0703	08/07/09	08/11/09	EPA 6010B (Dissolved)	
Cadmium	0.0017	0.0010	0.000099	mg/L	1	"	"	"	"	
Chromium	<0.010	0.010	0.00024	mg/L	1	"	"	"	"	
Copper	<0.020	0.020	0.0014	mg/L	1	"	"	"	"	
Lead	<0.0030	0.0030	0.00068	mg/L	1	"	"	"	"	
Nickel	0.056	0.0050	0.00028	mg/L	1	"	"	"	"	
Selenium	<0.020	0.020	0.0022	mg/L	1	"	"	"	"	
Silver	<0.0050	0.0050	0.00018	mg/L	1	"	"	"	"	
Zinc	<0.020	0.020	0.0044	mg/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Neppi	Work Order #: 0903498 Date Reported: 08/12/09
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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9H0604 - EPA 245.1/7470A Digestion											
Blank (B9H0604-BLK1) Prepared: 08/06/09 Analyzed: 08/07/09											
Mercury	< 0.00020	0.00020	0.000018	mg/L							
LCS (B9H0604-BS1) Prepared: 08/06/09 Analyzed: 08/07/09											
Mercury	0.00206	0.00020	0.000018	mg/L	0.00200		103	80-120			
LCS Dup (B9H0604-BSD1) Prepared: 08/06/09 Analyzed: 08/07/09											
Mercury	0.00206	0.00020	0.000018	mg/L	0.00200		103	80-120	0.00	20	
Matrix Spike (B9H0604-MS1) Source: 0903498-01 Prepared: 08/06/09 Analyzed: 08/07/09											
Mercury	0.00196	0.00020	0.000018	mg/L	0.00200	<0.00020	98.0	75-125			
Matrix Spike Dup (B9H0604-MSD1) Source: 0903498-01 Prepared: 08/06/09 Analyzed: 08/07/09											
Mercury	0.00202	0.00020	0.000018	mg/L	0.00200	<0.00020	101	75-125	3.02	20	
Batch B9H0703 - EPA 200.7/3005A Digestion											
Blank (B9H0703-BLK1) Prepared: 08/10/09 Analyzed: 08/11/09											
Arsenic	< 0.010	0.010	0.0020	mg/L							
Cadmium	< 0.0010	0.0010	0.000099	mg/L							
Chromium	< 0.010	0.010	0.00024	mg/L							
Copper	< 0.020	0.020	0.0014	mg/L							
Lead	< 0.0030	0.0030	0.00068	mg/L							
Nickel	< 0.0050	0.0050	0.00028	mg/L							
Selenium	< 0.020	0.020	0.0022	mg/L							
Silver	< 0.0050	0.0050	0.00018	mg/L							
Zinc	< 0.020	0.020	0.0044	mg/L							
LCS (B9H0703-BS1) Prepared: 08/10/09 Analyzed: 08/11/09											
Arsenic	0.387	0.010	0.0020	mg/L	0.399		97.1	80-120			
Cadmium	0.405	0.0010	0.000099	mg/L	0.399		101	80-120			
Chromium	0.396	0.010	0.00024	mg/L	0.399		99.3	80-120			
Copper	0.396	0.020	0.0014	mg/L	0.399		99.1	80-120			
Lead	0.402	0.0030	0.00068	mg/L	0.399		101	80-120			
Nickel	0.398	0.0050	0.00028	mg/L	0.399		99.7	80-120			
Selenium	0.381	0.020	0.0022	mg/L	0.399		95.5	80-120			
Silver	0.0405	0.0050	0.00018	mg/L	0.0399		102	80-120			
Zinc	0.394	0.020	0.0044	mg/L	0.399		98.6	80-120			
LCS Dup (B9H0703-BSD1) Prepared: 08/10/09 Analyzed: 08/11/09											
Arsenic	0.388	0.010	0.0020	mg/L	0.399		97.3	80-120	0.273	20	
Cadmium	0.406	0.0010	0.000099	mg/L	0.399		102	80-120	0.279	20	
Chromium	0.398	0.010	0.00024	mg/L	0.399		99.7	80-120	0.452	20	
Copper	0.399	0.020	0.0014	mg/L	0.399		100	80-120	0.905	20	
Lead	0.404	0.0030	0.00068	mg/L	0.399		101	80-120	0.517	20	
Nickel	0.399	0.0050	0.00028	mg/L	0.399		100	80-120	0.308	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0903498 Date Reported: 08/12/09
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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9H0703 - EPA 200.7/3005A Digestion											
LCS Dup (B9H0703-BSD1)											
						Prepared: 08/10/09	Analyzed: 08/11/09				
Selenium	0.379	0.020	0.0022	mg/L	0.399		95.0	80-120	0.541	20	
Silver	0.0411	0.0050	0.00018	mg/L	0.0399		103	80-120	1.28	20	
Zinc	0.396	0.020	0.0044	mg/L	0.399		99.1	80-120	0.515	20	
Matrix Spike (B9H0703-MS1)											
						Source: 0903498-07	Prepared: 08/10/09 Analyzed: 08/11/09				
Arsenic	0.401	0.010	0.0020	mg/L	0.399	<0.010	101	75-125			
Cadmium	0.410	0.0010	0.000099	mg/L	0.399	<0.0010	103	75-125			
Chromium	0.409	0.010	0.00024	mg/L	0.399	<0.010	101	75-125			
Copper	0.424	0.020	0.0014	mg/L	0.399	<0.020	106	75-125			
Lead	0.410	0.0030	0.00068	mg/L	0.399	<0.0030	103	75-125			
Nickel	0.409	0.0050	0.00028	mg/L	0.399	<0.0050	102	75-125			
Selenium	0.396	0.020	0.0022	mg/L	0.399	<0.020	98.5	75-125			
Silver	0.0425	0.0050	0.00018	mg/L	0.0399	<0.0050	105	75-125			
Zinc	0.407	0.020	0.0044	mg/L	0.399	<0.020	102	75-125			
Matrix Spike Dup (B9H0703-MSD1)											
						Source: 0903498-07	Prepared: 08/10/09 Analyzed: 08/11/09				
Arsenic	0.402	0.010	0.0020	mg/L	0.399	<0.010	101	75-125	0.199	20	
Cadmium	0.410	0.0010	0.000099	mg/L	0.399	<0.0010	103	75-125	0.196	20	
Chromium	0.409	0.010	0.00024	mg/L	0.399	<0.010	101	75-125	0.0385	20	
Copper	0.415	0.020	0.0014	mg/L	0.399	<0.020	103	75-125	2.16	20	
Lead	0.408	0.0030	0.00068	mg/L	0.399	<0.0030	102	75-125	0.347	20	
Nickel	0.407	0.0050	0.00028	mg/L	0.399	<0.0050	101	75-125	0.504	20	
Selenium	0.392	0.020	0.0022	mg/L	0.399	<0.020	97.5	75-125	1.03	20	
Silver	0.0420	0.0050	0.00018	mg/L	0.0399	<0.0050	104	75-125	1.13	20	
Zinc	0.420	0.020	0.0044	mg/L	0.399	<0.020	105	75-125	3.12	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23/19-0B05.07 Project Number: 23/19-0B05.07SOC350 Project Manager: Ms. Kelly Nepl	Work Order #: 0903498 Date Reported: 08/12/09
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Notes and Definitions

H1	Sample analysis performed past holding time.
F-01	The sample was filtered in the laboratory prior to analysis.
<	Less than value listed
dry	Sample results reported on a dry weight basis
NA	Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL	Method Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS	Matrix Spike = Laboratory Fortified Matrix (LFM)



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September 25, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0904018
RE: 23190B05.07

Enclosed are the results of analyses for samples received by the laboratory on 09/11/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

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Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC3-GP2R	0904018-01	Water	09/10/09 09:10	09/11/09 10:40
SOC3-GP3R	0904018-02	Water	09/10/09 09:00	09/11/09 10:40
SOC4-GP7_1-2	0904018-03	Soil	09/10/09 11:45	09/11/09 10:40
SOC4-GP4_1-2	0904018-04	Soil	09/10/09 13:00	09/11/09 10:40
Dup-2 (Geoprobe)	0904018-05	Soil	09/10/09 12:00	09/11/09 10:40
SOC4-GP4	0904018-06	Water	09/10/09 15:00	09/11/09 10:40
SOC4-GP5_1-3	0904018-07	Soil	09/10/09 16:30	09/11/09 10:40
SOC4-GP5	0904018-08	Water	09/10/09 17:00	09/11/09 10:40
Trip Blank	0904018-09	Methanol	05/29/09 00:00	09/11/09 10:40

Shipping Container Information

Default Cooler Temperature (°C): 5.6
 Received on ice: Yes Temperature blank was present Received on ice pack: No
 Received on melt water: No Ambient: No Acceptable (IH/ISO only): No
 Custody seals: Yes

Case Narrative:

MN Certification does not apply to dichlorofluoromethane, tetrahydrofuran, and 1,1,2-trichlorotrifluoroethane in the 8260B analysis or to carbazole in the 8270C analysis.

Beryllium recoveries in the MS/MSD samples for 6020 batch B9I2003 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was not associated with this work order.

Zinc recoveries in the MS/MSD samples for 6010 batch B9I2002 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was SOC4-GP4_1-2.

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC3-GP2R (0904018-01) Water Sampled: 09/10/09 09:10 Received: 09/11/09 10:40										
Antimony	0.40	0.50	0.046	ug/L	1	B912003	09/20/09	09/21/09	EPA 6020 (Dissolved)	J
Arsenic	<10	10	2.0	ug/L	1	B911407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B912003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B911407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B911412	09/14/09	09/15/09	EPA 7470A (Dissolved)	
Nickel	7.6	5.0	0.28	ug/L	1	B911407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B912003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Zinc	<20	20	4.4	ug/L	1	B911407	09/14/09	09/14/09	EPA 6010B (Dissolved)	

SOC3-GP3R (0904018-02) Water Sampled: 09/10/09 09:00 Received: 09/11/09 10:40										
Antimony	0.23	0.50	0.046	ug/L	1	B912003	09/20/09	09/21/09	EPA 6020 (Dissolved)	J
Arsenic	<10	10	2.0	ug/L	1	B911407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B912003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B911407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B911412	09/14/09	09/15/09	EPA 7470A (Dissolved)	
Nickel	<5.0	5.0	0.28	ug/L	1	B911407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B912003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Zinc	<20	20	4.4	ug/L	1	B911407	09/14/09	09/14/09	EPA 6010B (Dissolved)	

SOC4-GP4 (0904018-06) Water Sampled: 09/10/09 15:00 Received: 09/11/09 10:40										
Antimony	<0.046	0.50	0.046	ug/L	1	B912003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Arsenic	<10	10	2.0	ug/L	1	B911407	09/14/09	09/14/09	EPA 6010B (Dissolved)	

Barr Engineering Co.
 4700 W 77th St
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Project: 23190B05.07
 Project Number: 23190B05.07 SIRI 300
 Project Manager: Ms. Kelly Nepl

Work Order #: 0904018
 Date Reported: 09/25/09

DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP4 (0904018-06) Water Sampled: 09/10/09 15:00 Received: 09/11/09 10:40										
Beryllium	<0.027	0.50	0.027	ug/L	1	B912003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B911407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B911412	09/14/09	09/15/09	EPA 7470A (Dissolved)	
Nickel	5.1	5.0	0.28	ug/L	1	B911407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B912003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Zinc	<20	20	4.4	ug/L	1	B911407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
SOC4-GP5 (0904018-08) Water Sampled: 09/10/09 17:00 Received: 09/11/09 10:40										
Antimony	0.20	0.50	0.046	ug/L	1	B912003	09/20/09	09/21/09	EPA 6020 (Dissolved)	J
Arsenic	<10	10	2.0	ug/L	1	B911407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B912003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B911407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B911412	09/14/09	09/15/09	EPA 7470A (Dissolved)	
Nickel	6.3	5.0	0.28	ug/L	1	B911407	09/14/09	09/14/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	0.0093	0.50	0.0081	ug/L	1	B912003	09/20/09	09/21/09	EPA 6020 (Dissolved)	J
Zinc	<20	20	4.4	ug/L	1	B911407	09/14/09	09/14/09	EPA 6010B (Dissolved)	

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 Date Reported: 09/25/09

TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SOC4-GP4_1-2 (0904018-04) Soil Sampled: 09/10/09 13:00 Received: 09/11/09 10:40

Antimony	<0.58	0.58	0.0064	mg/kg dry	1	B9I2002	09/20/09	09/21/09	EPA 6010B	
Arsenic	5.8	0.58	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	<0.29	0.29	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.29	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chromium	14	0.58	0.014	mg/kg dry	1	"	"	"	"	
Copper	11	1.2	0.081	mg/kg dry	1	"	"	"	"	
Lead	8.2	1.2	0.040	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0021	mg/kg dry	1	B9I2115	09/17/09	09/22/09	EPA 7471A	
Nickel	18	0.58	0.016	mg/kg dry	1	B9I2002	09/20/09	09/21/09	EPA 6010B	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Silver	<0.29	0.29	0.010	mg/kg dry	1	"	"	"	"	
Thallium	<2.3	2.3	0.15	mg/kg dry	1	"	"	"	"	
Zinc	<1.2	1.2	0.26	mg/kg dry	1	"	"	"	"	M2

Dup-2 (Geoprobe) (0904018-05) Soil Sampled: 09/10/09 12:00 Received: 09/11/09 10:40

Antimony	<0.59	0.59	0.0065	mg/kg dry	1	B9I2002	09/20/09	09/21/09	EPA 6010B	
Arsenic	6.7	0.59	0.12	mg/kg dry	1	"	"	"	"	
Beryllium	<0.29	0.29	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.29	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chromium	18	0.59	0.014	mg/kg dry	1	"	"	"	"	
Copper	13	1.2	0.082	mg/kg dry	1	"	"	"	"	
Lead	9.6	1.2	0.040	mg/kg dry	1	"	"	"	"	
Mercury	<0.12	0.12	0.0021	mg/kg dry	1	B9I2115	09/17/09	09/22/09	EPA 7471A	
Nickel	19	0.59	0.016	mg/kg dry	1	B9I2002	09/20/09	09/21/09	EPA 6010B	
Selenium	<1.2	1.2	0.13	mg/kg dry	1	"	"	"	"	
Silver	<0.29	0.29	0.011	mg/kg dry	1	"	"	"	"	
Thallium	<2.4	2.4	0.15	mg/kg dry	1	"	"	"	"	
Zinc	<1.2	1.2	0.26	mg/kg dry	1	"	"	"	"	

SOC4-GP5_1-3 (0904018-07) Soil Sampled: 09/10/09 16:30 Received: 09/11/09 10:40

Antimony	<0.57	0.57	0.0063	mg/kg dry	1	B9I2002	09/20/09	09/21/09	EPA 6010B	
Arsenic	5.0	0.57	0.11	mg/kg dry	1	"	"	"	"	
Beryllium	<0.29	0.29	0.013	mg/kg dry	1	"	"	"	"	
Cadmium	<0.29	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chromium	13	0.57	0.014	mg/kg dry	1	"	"	"	"	
Copper	10	1.1	0.080	mg/kg dry	1	"	"	"	"	
Lead	7.9	1.1	0.039	mg/kg dry	1	"	"	"	"	
Mercury	<0.11	0.11	0.0021	mg/kg dry	1	B9I2115	09/17/09	09/22/09	EPA 7471A	
Nickel	14	0.57	0.016	mg/kg dry	1	B9I2002	09/20/09	09/21/09	EPA 6010B	
Selenium	<1.1	1.1	0.13	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP5 _1-3 (0904018-07) Soil Sampled: 09/10/09 16:30 Received: 09/11/09 10:40										
Silver	<0.29	0.29	0.010	mg/kg dry	1	B9I2002	09/20/09	09/21/09	EPA 6010B	
Thallium	<2.3	2.3	0.15	mg/kg dry	1	"	"	"	"	
Zinc	<1.1	1.1	0.25	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Neppl	Work Order #: 0904018 Date Reported: 09/25/09
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PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP7_1-2 (0904018-03) Soil Sampled: 09/10/09 11:45 Received: 09/11/09 10:40										
% Solids	86			%	1	B911410	09/14/09	09/15/09	% calculation	
SOC4-GP4_1-2 (0904018-04) Soil Sampled: 09/10/09 13:00 Received: 09/11/09 10:40										
% Solids	86			%	1	B911410	09/14/09	09/15/09	% calculation	
Dup-2 (Geoprobe) (0904018-05) Soil Sampled: 09/10/09 12:00 Received: 09/11/09 10:40										
% Solids	85			%	1	B911410	09/14/09	09/15/09	% calculation	
SOC4-GP5_1-3 (0904018-07) Soil Sampled: 09/10/09 16:30 Received: 09/11/09 10:40										
% Solids	87			%	1	B911410	09/14/09	09/15/09	% calculation	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP7_1-2 (0904018-03) Soil Sampled: 09/10/09 11:45 Received: 09/11/09 10:40										
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B911703	09/17/09	09/17/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.78	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.78	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.78	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.78	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.050	0.78	0.050	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.78	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.042	0.78	0.042	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.45	1.9	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.086	0.78	0.086	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.047	0.78	0.047	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.78	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.78	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.78	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.78	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.84	2.9	0.84	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.040	0.38	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.035	0.38	0.035	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP7_1-2 (0904018-03) Soil Sampled: 09/10/09 11:45 Received: 09/11/09 10:40										
Benzo (k) fluoranthene	<0.036	0.38	0.036	mg/kg dry	1	B911703	09/17/09	09/17/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.78	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.040	0.38	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.38	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.048	0.38	0.048	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.035	0.38	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.78	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.78	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	80.4			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	64.8			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	66.8			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	68.8			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	74.0			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	69.6			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP4_1-2 (0904018-04) Soil Sampled: 09/10/09 13:00 Received: 09/11/09 10:40										
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B911703	09/17/09	09/17/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.78	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.78	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.78	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.78	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.050	0.78	0.050	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.78	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.041	0.78	0.041	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.042	0.78	0.042	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.45	1.9	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.086	0.78	0.086	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.047	0.78	0.047	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.78	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.78	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.78	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.78	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.84	2.9	0.84	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.040	0.38	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.035	0.38	0.035	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP4_1-2 (0904018-04) Soil Sampled: 09/10/09 13:00 Received: 09/11/09 10:40										
Benzo (k) fluoranthene	<0.036	0.38	0.036	mg/kg dry	1	B911703	09/17/09	09/17/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.78	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.040	0.38	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.38	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.048	0.38	0.048	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.035	0.38	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.78	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.78	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	<0.027	0.38	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	78.2			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	63.7			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	69.5			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	69.9			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	75.2			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	66.7			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dup-2 (Geoprobe) (0904018-05) Soil Sampled: 09/10/09 12:00 Received: 09/11/09 10:40										
1,2,4-Trichlorobenzene	<0.032	0.39	0.032	mg/kg dry	1	B911703	09/17/09	09/17/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.045	0.79	0.045	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.79	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.068	0.79	0.068	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.051	0.79	0.051	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.045	0.79	0.045	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.041	0.79	0.041	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.042	0.79	0.042	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.46	1.9	0.46	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.087	0.79	0.087	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.047	0.79	0.047	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.79	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.032	0.79	0.032	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.12	0.79	0.12	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Aniline	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.85	2.9	0.85	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.032	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.032	0.39	0.032	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.035	0.39	0.035	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dup-2 (Geoprobe) (0904018-05) Soil Sampled: 09/10/09 12:00 Received: 09/11/09 10:40										
Benzo (k) fluoranthene	<0.036	0.39	0.036	mg/kg dry	1	B911703	09/17/09	09/17/09	EPA 8270C	
Benzoic acid	<0.068	0.39	0.068	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.79	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.024	0.39	0.024	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.025	0.39	0.025	mg/kg dry	1	"	"	"	"	
Carbazole	<0.026	0.39	0.026	mg/kg dry	1	"	"	"	"	
Chrysene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.040	0.39	0.040	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.018	0.39	0.018	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.044	0.39	0.044	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.39	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.019	0.39	0.019	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.039	0.39	0.039	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.048	0.39	0.048	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.033	0.39	0.033	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.39	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.034	0.39	0.034	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.035	0.39	0.035	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.038	0.39	0.038	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.39	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.39	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.79	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.39	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.067	0.79	0.067	mg/kg dry	1	"	"	"	"	
Pyrene	<0.027	0.39	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	89.9			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	68.2			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	73.6			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	72.4			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	80.8			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	72.3			43.6-112 %		"	"	"	"	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23190B05.07
 Project Number: 23190B05.07 SIRI 300
 Project Manager: Ms. Kelly Neppi

Work Order #: 0904018
 Date Reported: 09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP4 (0904018-06) Water Sampled: 09/10/09 15:00 Received: 09/11/09 10:40										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B911503	09/15/09	09/15/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3'-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Neppi	Work Order #: 0904018 Date Reported: 09/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP4 (0904018-06) Water Sampled: 09/10/09 15:00 Received: 09/11/09 10:40										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B911503	09/15/09	09/15/09	EPA 8270C	
Benzoic acid	7.9	9.3	1.1	ug/L	1	"	"	"	"	J
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	74.6									48.5-114 %
Surrogate: 2-Fluorobiphenyl	86.7									41.7-98.4 %
Surrogate: 2-Fluorophenol	71.1									30-93.5 %
Surrogate: Nitrobenzene-d5	85.4									47.4-97.8 %
Surrogate: Phenol-d6	61.0									30-91.5 %
Surrogate: Terphenyl-d14	96.5									30-108 %

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP5 _1-3 (0904018-07) Soil Sampled: 09/10/09 16:30 Received: 09/11/09 10:40										
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B911703	09/17/09	09/17/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.77	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.77	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.049	0.77	0.049	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.041	0.77	0.041	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.45	1.8	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.085	0.77	0.085	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.046	0.77	0.046	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.77	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.77	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.83	2.9	0.83	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP5 _1-3 (0904018-07) Soil Sampled: 09/10/09 16:30 Received: 09/11/09 10:40										
Benzo (k) fluoranthene	<0.036	0.38	0.036	mg/kg dry	1	B911703	09/17/09	09/17/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.77	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.38	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.047	0.38	0.047	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.77	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	83.7			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	65.6			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	69.1			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	69.0			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	75.8			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	69.7			43.6-112 %		"	"	"	"	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23190B05.07
 Project Number: 23190B05.07 SIRI 300
 Project Manager: Ms. Kelly Neppi

Work Order #: 0904018
 Date Reported: 09/25/09

SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP5 (0904018-08) Water Sampled: 09/10/09 17:00 Received: 09/11/09 10:40										
1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B911503	09/15/09	09/15/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3'-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Neppi	Work Order #: 0904018 Date Reported: 09/25/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP5 (0904018-08) Water Sampled: 09/10/09 17:00 Received: 09/11/09 10:40										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B911503	09/15/09	09/15/09	EPA 8270C	
Benzoic acid	7.5	9.3	1.1	ug/L	1	"	"	"	"	J
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	73.5									48.5-114 %
Surrogate: 2-Fluorobiphenyl	81.7									41.7-98.4 %
Surrogate: 2-Fluorophenol	58.8									30-93.5 %
Surrogate: Nitrobenzene-d5	81.8									47.4-97.8 %
Surrogate: Phenol-d6	49.9									30-91.5 %
Surrogate: Terphenyl-d14	93.4									30-108 %

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Neppi	Work Order #: 0904018 Date Reported: 09/25/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP4_1-2 (0904018-04) Soil Sampled: 09/10/09 13:00 Received: 09/11/09 10:40										
1,1,1,2-Tetrachloroethane	<0.033	0.31	0.033	mg/kg dry	1	B911714	09/17/09	09/17/09	EPA 8260B	
1,1,1-Trichloroethane	<0.041	0.31	0.041	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.031	0.31	0.031	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.046	0.31	0.046	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.081	0.31	0.081	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethane	<0.030	0.31	0.030	mg/kg dry	1	"	"	"	"	
1,1-Dichloroethene	<0.031	0.31	0.031	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.034	0.31	0.034	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.083	0.63	0.083	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.066	0.31	0.066	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.080	0.63	0.080	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.025	0.31	0.025	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.071	0.63	0.071	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.048	0.31	0.048	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.034	0.31	0.034	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.031	0.31	0.031	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.035	0.31	0.035	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.019	0.31	0.019	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.035	0.31	0.035	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.021	0.31	0.021	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.023	0.31	0.023	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.085	0.63	0.085	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.15	2.5	0.15	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.023	0.31	0.023	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.036	0.31	0.036	mg/kg dry	1	"	"	"	"	
Acetone	<0.40	2.5	0.40	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.084	0.63	0.084	mg/kg dry	1	"	"	"	"	
Benzene	<0.019	0.31	0.019	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.024	0.31	0.024	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.031	0.31	0.031	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.044	0.31	0.044	mg/kg dry	1	"	"	"	"	
Bromoform	<0.10	0.63	0.10	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.18	0.63	0.18	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.034	0.31	0.034	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.031	0.31	0.031	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.091	0.31	0.091	mg/kg dry	1	"	"	"	"	
Chloroform	<0.053	0.31	0.053	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.051	0.31	0.051	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.058	0.31	0.058	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP4_1-2 (0904018-04) Soil Sampled: 09/10/09 13:00 Received: 09/11/09 10:40										
cis-1,3-Dichloropropene	<0.029	0.31	0.029	mg/kg dry	1	B911714	09/17/09	09/17/09	EPA 8260B	
Dibromochloromethane	<0.040	0.31	0.040	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.058	0.31	0.058	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.10	0.63	0.10	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.055	0.31	0.055	mg/kg dry	1	"	"	"	"	
Ethyl ether	<0.060	0.63	0.060	mg/kg dry	1	"	"	"	"	
Ethylbenzene	<0.028	0.31	0.028	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.16	1.3	0.16	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.029	0.31	0.029	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.11	0.63	0.11	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.12	0.63	0.12	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.021	0.31	0.021	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.21	1.3	0.21	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.081	0.63	0.081	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.040	0.31	0.040	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.018	0.31	0.018	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.039	0.31	0.039	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.038	0.31	0.038	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.013	0.31	0.013	mg/kg dry	1	"	"	"	"	
Styrene	<0.050	0.31	0.050	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.023	0.31	0.023	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.044	0.31	0.044	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.13	2.5	0.13	mg/kg dry	1	"	"	"	"	
Toluene	<0.035	0.31	0.035	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.028	0.31	0.028	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.044	0.31	0.044	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.050	0.31	0.050	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.040	0.31	0.040	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.029	0.31	0.029	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	98.2			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	94.9			80-120 %		"	"	"	"	

Dup-2 (Geoprobe) (0904018-05) Soil Sampled: 09/10/09 12:00 Received: 09/11/09 10:40										
1,1,1,2-Tetrachloroethane	<0.031	0.29	0.031	mg/kg dry	1	B911714	09/17/09	09/17/09	EPA 8260B	
1,1,1-Trichloroethane	<0.039	0.29	0.039	mg/kg dry	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
1,1,2-Trichloroethane	<0.044	0.29	0.044	mg/kg dry	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.076	0.29	0.076	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dup-2 (Geoprobe) (0904018-05) Soil Sampled: 09/10/09 12:00 Received: 09/11/09 10:40										
1,1-Dichloroethane	<0.028	0.29	0.028	mg/kg dry	1	B911714	09/17/09	09/17/09	EPA 8260B	
1,1-Dichloroethene	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
1,1-Dichloropropene	<0.032	0.29	0.032	mg/kg dry	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.078	0.59	0.078	mg/kg dry	1	"	"	"	"	
1,2,3-Trichloropropane	<0.062	0.29	0.062	mg/kg dry	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.075	0.59	0.075	mg/kg dry	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.024	0.29	0.024	mg/kg dry	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.067	0.59	0.067	mg/kg dry	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.045	0.29	0.045	mg/kg dry	1	"	"	"	"	
1,2-Dichlorobenzene	<0.032	0.29	0.032	mg/kg dry	1	"	"	"	"	
1,2-Dichloroethane	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
1,2-Dichloropropane	<0.033	0.29	0.033	mg/kg dry	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.018	0.29	0.018	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.033	0.29	0.033	mg/kg dry	1	"	"	"	"	
1,3-Dichloropropane	<0.020	0.29	0.020	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.021	0.29	0.021	mg/kg dry	1	"	"	"	"	
2,2-Dichloropropane	<0.080	0.59	0.080	mg/kg dry	1	"	"	"	"	
2-Butanone	<0.14	2.4	0.14	mg/kg dry	1	"	"	"	"	
2-Chlorotoluene	<0.021	0.29	0.021	mg/kg dry	1	"	"	"	"	
4-Chlorotoluene	<0.034	0.29	0.034	mg/kg dry	1	"	"	"	"	
Acetone	<0.38	2.4	0.38	mg/kg dry	1	"	"	"	"	
Allyl chloride	<0.079	0.59	0.079	mg/kg dry	1	"	"	"	"	
Benzene	<0.018	0.29	0.018	mg/kg dry	1	"	"	"	"	
Bromobenzene	<0.022	0.29	0.022	mg/kg dry	1	"	"	"	"	
Bromochloromethane	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
Bromodichloromethane	<0.041	0.29	0.041	mg/kg dry	1	"	"	"	"	
Bromoform	<0.094	0.59	0.094	mg/kg dry	1	"	"	"	"	
Bromomethane	<0.16	0.59	0.16	mg/kg dry	1	"	"	"	"	
Carbon tetrachloride	<0.032	0.29	0.032	mg/kg dry	1	"	"	"	"	
Chlorobenzene	<0.029	0.29	0.029	mg/kg dry	1	"	"	"	"	
Chloroethane	<0.086	0.29	0.086	mg/kg dry	1	"	"	"	"	
Chloroform	<0.049	0.29	0.049	mg/kg dry	1	"	"	"	"	
Chloromethane	<0.048	0.29	0.048	mg/kg dry	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.054	0.29	0.054	mg/kg dry	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.027	0.29	0.027	mg/kg dry	1	"	"	"	"	
Dibromochloromethane	<0.038	0.29	0.038	mg/kg dry	1	"	"	"	"	
Dibromomethane	<0.054	0.29	0.054	mg/kg dry	1	"	"	"	"	
Dichlorodifluoromethane	<0.096	0.59	0.096	mg/kg dry	1	"	"	"	"	
Dichlorofluoromethane	<0.052	0.29	0.052	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dup-2 (Geoprobe) (0904018-05) Soil Sampled: 09/10/09 12:00 Received: 09/11/09 10:40										
Ethyl ether	<0.056	0.59	0.056	mg/kg dry	1	B911714	09/17/09	09/17/09	EPA 8260B	
Ethylbenzene	<0.026	0.29	0.026	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.15	1.2	0.15	mg/kg dry	1	"	"	"	"	
Isopropylbenzene	<0.027	0.29	0.027	mg/kg dry	1	"	"	"	"	
m,p-Xylene	<0.10	0.59	0.10	mg/kg dry	1	"	"	"	"	
Methyl isobutyl ketone	<0.11	0.59	0.11	mg/kg dry	1	"	"	"	"	
Methyl tert-butyl ether	<0.020	0.29	0.020	mg/kg dry	1	"	"	"	"	
Methylene chloride	<0.20	1.2	0.20	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.076	0.59	0.076	mg/kg dry	1	"	"	"	"	
n-Butylbenzene	<0.038	0.29	0.038	mg/kg dry	1	"	"	"	"	
n-Propylbenzene	<0.016	0.29	0.016	mg/kg dry	1	"	"	"	"	
o-Xylene	<0.036	0.29	0.036	mg/kg dry	1	"	"	"	"	
p-Isopropyltoluene	<0.035	0.29	0.035	mg/kg dry	1	"	"	"	"	
sec-Butylbenzene	<0.012	0.29	0.012	mg/kg dry	1	"	"	"	"	
Styrene	<0.047	0.29	0.047	mg/kg dry	1	"	"	"	"	
tert-Butylbenzene	<0.021	0.29	0.021	mg/kg dry	1	"	"	"	"	
Tetrachloroethene	<0.041	0.29	0.041	mg/kg dry	1	"	"	"	"	
Tetrahydrofuran	<0.12	2.4	0.12	mg/kg dry	1	"	"	"	"	
Toluene	<0.033	0.29	0.033	mg/kg dry	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.026	0.29	0.026	mg/kg dry	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.041	0.29	0.041	mg/kg dry	1	"	"	"	"	
Trichloroethene	<0.047	0.29	0.047	mg/kg dry	1	"	"	"	"	
Trichlorofluoromethane	<0.038	0.29	0.038	mg/kg dry	1	"	"	"	"	
Vinyl chloride	<0.027	0.29	0.027	mg/kg dry	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	99.0			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	93.1			80-120 %		"	"	"	"	

SOC4-GP5 (0904018-08) Water Sampled: 09/10/09 17:00 Received: 09/11/09 10:40										
1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B911810	09/18/09	09/19/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23190B05.07
 Project Number: 23190B05.07 SIRI 300
 Project Manager: Ms. Kelly Nepl

Work Order #: 0904018
 Date Reported: 09/25/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP5 (0904018-08) Water Sampled: 09/10/09 17:00 Received: 09/11/09 10:40										
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	B911810	09/18/09	09/19/09	EPA 8260B	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Neppi	Work Order #: 0904018 Date Reported: 09/25/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP5 (0904018-08) Water Sampled: 09/10/09 17:00 Received: 09/11/09 10:40										
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	B911810	09/18/09	09/19/09	EPA 8260B	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	111			80-121 %		"	"	"	"	
Surrogate: Dibromofluoromethane	104			79.9-121 %		"	"	"	"	
Surrogate: Toluene-d8	101			80-120 %		"	"	"	"	

Trip Blank (0904018-09) Methanol Sampled: 05/29/09 00:00 Received: 09/11/09 10:40										H3b
1,1,1,2-Tetrachloroethane	<0.026	0.25	0.026	mg/kg wet	1	B911714	09/17/09	09/17/09	EPA 8260B	
1,1,1-Trichloroethane	<0.033	0.25	0.033	mg/kg wet	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.025	0.25	0.025	mg/kg wet	1	"	"	"	"	
1,1,2-Trichloroethane	<0.037	0.25	0.037	mg/kg wet	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.065	0.25	0.065	mg/kg wet	1	"	"	"	"	
1,1-Dichloroethane	<0.024	0.25	0.024	mg/kg wet	1	"	"	"	"	
1,1-Dichloroethene	<0.025	0.25	0.025	mg/kg wet	1	"	"	"	"	
1,1-Dichloropropene	<0.027	0.25	0.027	mg/kg wet	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.066	0.50	0.066	mg/kg wet	1	"	"	"	"	
1,2,3-Trichloropropane	<0.053	0.25	0.053	mg/kg wet	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.064	0.50	0.064	mg/kg wet	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.020	0.25	0.020	mg/kg wet	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.057	0.50	0.057	mg/kg wet	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.038	0.25	0.038	mg/kg wet	1	"	"	"	"	
1,2-Dichlorobenzene	<0.027	0.25	0.027	mg/kg wet	1	"	"	"	"	

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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (0904018-09) Methanol										H3b
Sampled: 05/29/09 00:00 Received: 09/11/09 10:40										
1,2-Dichloroethane	<0.025	0.25	0.025	mg/kg wet	1	B911714	09/17/09	09/17/09	EPA 8260B	
1,2-Dichloropropane	<0.028	0.25	0.028	mg/kg wet	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.015	0.25	0.015	mg/kg wet	1	"	"	"	"	
1,3-Dichlorobenzene	<0.028	0.25	0.028	mg/kg wet	1	"	"	"	"	
1,3-Dichloropropane	<0.017	0.25	0.017	mg/kg wet	1	"	"	"	"	
1,4-Dichlorobenzene	<0.018	0.25	0.018	mg/kg wet	1	"	"	"	"	
2,2-Dichloropropane	<0.068	0.50	0.068	mg/kg wet	1	"	"	"	"	
2-Butanone	<0.12	2.0	0.12	mg/kg wet	1	"	"	"	"	
2-Chlorotoluene	<0.018	0.25	0.018	mg/kg wet	1	"	"	"	"	
4-Chlorotoluene	<0.029	0.25	0.029	mg/kg wet	1	"	"	"	"	
Acetone	<0.32	2.0	0.32	mg/kg wet	1	"	"	"	"	
Allyl chloride	<0.067	0.50	0.067	mg/kg wet	1	"	"	"	"	
Benzene	<0.015	0.25	0.015	mg/kg wet	1	"	"	"	"	
Bromobenzene	<0.019	0.25	0.019	mg/kg wet	1	"	"	"	"	
Bromochloromethane	<0.025	0.25	0.025	mg/kg wet	1	"	"	"	"	
Bromodichloromethane	<0.035	0.25	0.035	mg/kg wet	1	"	"	"	"	
Bromoform	<0.080	0.50	0.080	mg/kg wet	1	"	"	"	"	
Bromomethane	<0.14	0.50	0.14	mg/kg wet	1	"	"	"	"	
Carbon tetrachloride	<0.027	0.25	0.027	mg/kg wet	1	"	"	"	"	
Chlorobenzene	<0.025	0.25	0.025	mg/kg wet	1	"	"	"	"	
Chloroethane	<0.073	0.25	0.073	mg/kg wet	1	"	"	"	"	
Chloroform	<0.042	0.25	0.042	mg/kg wet	1	"	"	"	"	
Chloromethane	<0.041	0.25	0.041	mg/kg wet	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.046	0.25	0.046	mg/kg wet	1	"	"	"	"	
cis-1,3-Dichloropropene	<0.023	0.25	0.023	mg/kg wet	1	"	"	"	"	
Dibromochloromethane	<0.032	0.25	0.032	mg/kg wet	1	"	"	"	"	
Dibromomethane	<0.046	0.25	0.046	mg/kg wet	1	"	"	"	"	
Dichlorodifluoromethane	<0.082	0.50	0.082	mg/kg wet	1	"	"	"	"	
Dichlorofluoromethane	<0.044	0.25	0.044	mg/kg wet	1	"	"	"	"	
Ethyl ether	<0.048	0.50	0.048	mg/kg wet	1	"	"	"	"	
Ethylbenzene	<0.022	0.25	0.022	mg/kg wet	1	"	"	"	"	
Hexachlorobutadiene	<0.13	1.0	0.13	mg/kg wet	1	"	"	"	"	
Isopropylbenzene	<0.023	0.25	0.023	mg/kg wet	1	"	"	"	"	
m,p-Xylene	<0.088	0.50	0.088	mg/kg wet	1	"	"	"	"	
Methyl isobutyl ketone	<0.092	0.50	0.092	mg/kg wet	1	"	"	"	"	
Methyl tert-butyl ether	<0.017	0.25	0.017	mg/kg wet	1	"	"	"	"	
Methylene chloride	<0.17	1.0	0.17	mg/kg wet	1	"	"	"	"	
Naphthalene	<0.065	0.50	0.065	mg/kg wet	1	"	"	"	"	
n-Butylbenzene	<0.032	0.25	0.032	mg/kg wet	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Neppi	Work Order #: 0904018 Date Reported: 09/25/09
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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (0904018-09) Methanol										H3b
Sampled: 05/29/09 00:00 Received: 09/11/09 10:40										
n-Propylbenzene	<0.014	0.25	0.014	mg/kg wet	1	B911714	09/17/09	09/17/09	EPA 8260B	
o-Xylene	<0.031	0.25	0.031	mg/kg wet	1	"	"	"	"	
p-Isopropyltoluene	<0.030	0.25	0.030	mg/kg wet	1	"	"	"	"	
sec-Butylbenzene	<0.010	0.25	0.010	mg/kg wet	1	"	"	"	"	
Styrene	<0.040	0.25	0.040	mg/kg wet	1	"	"	"	"	
tert-Butylbenzene	<0.018	0.25	0.018	mg/kg wet	1	"	"	"	"	
Tetrachloroethene	<0.035	0.25	0.035	mg/kg wet	1	"	"	"	"	
Tetrahydrofuran	<0.10	2.0	0.10	mg/kg wet	1	"	"	"	"	
Toluene	<0.028	0.25	0.028	mg/kg wet	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.022	0.25	0.022	mg/kg wet	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.035	0.25	0.035	mg/kg wet	1	"	"	"	"	
Trichloroethene	<0.040	0.25	0.040	mg/kg wet	1	"	"	"	"	
Trichlorofluoromethane	<0.032	0.25	0.032	mg/kg wet	1	"	"	"	"	
Vinyl chloride	<0.023	0.25	0.023	mg/kg wet	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6			80-120 %		"	"	"	"	
Surrogate: Dibromofluoromethane	97.2			80-120 %		"	"	"	"	
Surrogate: Toluene-d8	96.2			80-120 %		"	"	"	"	

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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B911407 - EPA 200.7/3005A Digestion

Blank (B911407-BLK1)

Prepared & Analyzed: 09/14/09

Arsenic	< 10	10	2.0	ug/L							
Cadmium	< 1.0	1.0	0.099	ug/L							
Chromium	< 10	10	0.24	ug/L							
Copper	< 20	20	1.4	ug/L							
Lead	< 3.0	3.0	0.68	ug/L							
Nickel	< 5.0	5.0	0.28	ug/L							
Selenium	< 20	20	2.2	ug/L							
Silver	< 5.0	5.0	0.18	ug/L							
Zinc	< 20	20	4.4	ug/L							

LCS (B911407-BS1)

Prepared & Analyzed: 09/14/09

Arsenic	415	10	2.0	ug/L	399		104	80-120			
Cadmium	429	1.0	0.099	ug/L	399		108	80-120			
Chromium	418	10	0.24	ug/L	399		105	80-120			
Copper	422	20	1.4	ug/L	399		106	80-120			
Lead	429	3.0	0.68	ug/L	399		108	80-120			
Nickel	423	5.0	0.28	ug/L	399		106	80-120			
Selenium	403	20	2.2	ug/L	399		101	80-120			
Silver	41.8	5.0	0.18	ug/L	39.9		105	80-120			
Zinc	422	20	4.4	ug/L	399		106	80-120			

LCS Dup (B911407-BSD1)

Prepared & Analyzed: 09/14/09

Arsenic	415	10	2.0	ug/L	399		104	80-120	0.0292	20	
Cadmium	428	1.0	0.099	ug/L	399		107	80-120	0.280	20	
Chromium	416	10	0.24	ug/L	399		104	80-120	0.618	20	
Copper	418	20	1.4	ug/L	399		105	80-120	0.880	20	
Lead	427	3.0	0.68	ug/L	399		107	80-120	0.499	20	
Nickel	421	5.0	0.28	ug/L	399		105	80-120	0.612	20	
Selenium	406	20	2.2	ug/L	399		102	80-120	0.696	20	
Silver	41.1	5.0	0.18	ug/L	39.9		103	80-120	1.69	20	
Zinc	418	20	4.4	ug/L	399		105	80-120	0.962	20	

Matrix Spike (B911407-MS1)

Source: 0903902-01

Prepared & Analyzed: 09/14/09

Arsenic	413	10	2.0	ug/L	399	<10	103	75-125			
Cadmium	413	1.0	0.099	ug/L	399	<1.0	104	75-125			
Chromium	418	10	0.24	ug/L	399	<10	105	75-125			
Copper	425	20	1.4	ug/L	399	<20	107	75-125			
Lead	415	3.0	0.68	ug/L	399	<3.0	104	75-125			
Nickel	414	5.0	0.28	ug/L	399	<5.0	103	75-125			
Selenium	394	20	2.2	ug/L	399	<20	97.9	75-125			
Silver	42.1	5.0	0.18	ug/L	39.9	<5.0	105	75-125			

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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9I1407 - EPA 200.7/3005A Digestion

Matrix Spike (B9I1407-MS1)

Source: 0903902-01

Prepared & Analyzed: 09/14/09

Zinc	394	20	4.4	ug/L	399	<20	98.9	75-125			
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Matrix Spike Dup (B9I1407-MSD1)

Source: 0903902-01

Prepared & Analyzed: 09/14/09

Arsenic	413	10	2.0	ug/L	399	<10	103	75-125	0.0354	20	
Cadmium	409	1.0	0.099	ug/L	399	<1.0	102	75-125	1.10	20	
Chromium	403	10	0.24	ug/L	399	<10	101	75-125	3.68	20	
Copper	417	20	1.4	ug/L	399	<20	104	75-125	2.06	20	
Lead	409	3.0	0.68	ug/L	399	<3.0	103	75-125	1.31	20	
Nickel	405	5.0	0.28	ug/L	399	<5.0	101	75-125	2.24	20	
Selenium	413	20	2.2	ug/L	399	<20	103	75-125	4.80	20	
Silver	41.1	5.0	0.18	ug/L	39.9	<5.0	102	75-125	2.30	20	
Zinc	398	20	4.4	ug/L	399	<20	99.7	75-125	0.878	20	

Batch B9I1412 - EPA 245.1/7470A Digestion

Blank (B9I1412-BLK1)

Prepared: 09/14/09 Analyzed: 09/15/09

Mercury	< 0.20	0.20	0.018	ug/L							
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LCS (B9I1412-BS1)

Prepared: 09/14/09 Analyzed: 09/15/09

Mercury	2.11	0.20	0.018	ug/L	2.00		106	80-120			
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LCS Dup (B9I1412-BSD1)

Prepared: 09/14/09 Analyzed: 09/15/09

Mercury	2.13	0.20	0.018	ug/L	2.00		106	80-120	0.943	20	
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Matrix Spike (B9I1412-MS1)

Source: 0903902-01

Prepared: 09/14/09 Analyzed: 09/15/09

Mercury	1.96	0.20	0.018	ug/L	2.00	<0.20	98.0	75-125			
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Matrix Spike Dup (B9I1412-MSD1)

Source: 0903902-01

Prepared: 09/14/09 Analyzed: 09/15/09

Mercury	2.08	0.20	0.018	ug/L	2.00	<0.20	104	75-125	5.94	20	
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Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2003 - EPA 200.8 Digestion											
Blank (B9I2003-BLK1)											
						Prepared: 09/20/09 Analyzed: 09/23/09					
Antimony	< 0.046	0.50	0.046	ug/L							
Beryllium	< 0.027	0.50	0.027	ug/L							
Thallium	< 0.0081	0.50	0.0081	ug/L							
LCS (B9I2003-BS1)											
						Prepared: 09/20/09 Analyzed: 09/24/09					
Antimony	23.1	0.50	0.046	ug/L	20.0		116	80-120			
Beryllium	22.4	0.50	0.027	ug/L	20.0		112	80-120			
Thallium	20.6	0.50	0.0081	ug/L	20.0		103	80-120			
LCS Dup (B9I2003-BSD1)											
						Prepared: 09/20/09 Analyzed: 09/23/09					
Antimony	22.1	0.50	0.046	ug/L	20.0		111	80-120	4.30	20	
Beryllium	21.9	0.50	0.027	ug/L	20.0		109	80-120	2.42	20	
Thallium	21.5	0.50	0.0081	ug/L	20.0		108	80-120	4.58	20	
Matrix Spike (B9I2003-MS1)											
						Source: 0903921-02 Prepared: 09/20/09 Analyzed: 09/23/09					
Antimony	15.7	0.50	0.046	ug/L	20.0	0.542	75.8	75-125			
Beryllium	4.78	0.50	0.027	ug/L	20.0	<0.50	23.9	75-125			M2
Thallium	21.7	0.50	0.0081	ug/L	20.0	<0.50	108	75-125			
Matrix Spike Dup (B9I2003-MSD1)											
						Source: 0903921-02 Prepared: 09/20/09 Analyzed: 09/23/09					
Antimony	19.0	0.50	0.046	ug/L	20.0	0.542	92.2	75-125	19.0	20	
Beryllium	4.96	0.50	0.027	ug/L	20.0	<0.50	24.8	75-125	3.76	20	M2
Thallium	21.7	0.50	0.0081	ug/L	20.0	<0.50	108	75-125	0.323	20	

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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9I2002 - EPA 3050B

Blank (B9I2002-BLK1)

Prepared: 09/20/09 Analyzed: 09/21/09

Antimony	< 0.50	0.50	0.0055	mg/kg wet							
Arsenic	< 0.50	0.50	0.10	mg/kg wet							
Beryllium	< 0.25	0.25	0.011	mg/kg wet							
Cadmium	< 0.25	0.25	0.025	mg/kg wet							
Chromium	< 0.50	0.50	0.012	mg/kg wet							
Copper	< 1.0	1.0	0.070	mg/kg wet							
Lead	< 1.0	1.0	0.034	mg/kg wet							
Nickel	< 0.50	0.50	0.014	mg/kg wet							
Selenium	< 1.0	1.0	0.11	mg/kg wet							
Silver	< 0.25	0.25	0.0090	mg/kg wet							
Thallium	< 2.0	2.0	0.13	mg/kg wet							
Zinc	< 1.0	1.0	0.22	mg/kg wet							

LCS (B9I2002-BS1)

Prepared: 09/20/09 Analyzed: 09/21/09

Antimony	37.0	0.50	0.0055	mg/kg wet	39.9		92.8	80-120			
Arsenic	37.2	0.50	0.10	mg/kg wet	39.9		93.3	80-120			
Beryllium	3.78	0.25	0.011	mg/kg wet	3.99		94.8	80-120			
Cadmium	38.8	0.25	0.025	mg/kg wet	39.9		97.3	80-120			
Chromium	38.4	0.50	0.012	mg/kg wet	39.9		96.3	80-120			
Copper	37.5	1.0	0.070	mg/kg wet	39.9		94.0	80-120			
Lead	38.9	1.0	0.034	mg/kg wet	39.9		97.5	80-120			
Nickel	38.4	0.50	0.014	mg/kg wet	39.9		96.3	80-120			
Selenium	36.9	1.0	0.11	mg/kg wet	39.9		92.5	80-120			
Silver	3.68	0.25	0.0090	mg/kg wet	3.99		92.1	80-120			
Thallium	37.1	2.0	0.13	mg/kg wet	39.9		92.9	80-120			
Zinc	39.2	1.0	0.22	mg/kg wet	39.9		98.3	80-120			

LCS Dup (B9I2002-BSD1)

Prepared: 09/20/09 Analyzed: 09/21/09

Antimony	37.7	0.50	0.0055	mg/kg wet	39.9		94.5	80-120	1.81	20	
Arsenic	37.8	0.50	0.10	mg/kg wet	39.9		94.8	80-120	1.66	20	
Beryllium	3.81	0.25	0.011	mg/kg wet	3.99		95.4	80-120	0.674	20	
Cadmium	39.5	0.25	0.025	mg/kg wet	39.9		99.0	80-120	1.77	20	
Chromium	39.0	0.50	0.012	mg/kg wet	39.9		97.8	80-120	1.63	20	
Copper	37.9	1.0	0.070	mg/kg wet	39.9		94.9	80-120	0.913	20	
Lead	39.6	1.0	0.034	mg/kg wet	39.9		99.4	80-120	1.89	20	
Nickel	38.9	0.50	0.014	mg/kg wet	39.9		97.5	80-120	1.23	20	
Selenium	37.2	1.0	0.11	mg/kg wet	39.9		93.3	80-120	0.792	20	
Silver	3.69	0.25	0.0090	mg/kg wet	3.99		92.4	80-120	0.301	20	
Thallium	38.3	2.0	0.13	mg/kg wet	39.9		95.9	80-120	3.19	20	
Zinc	38.7	1.0	0.22	mg/kg wet	39.9		97.0	80-120	1.33	20	

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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2002 - EPA 3050B											
Matrix Spike (B9I2002-MS1)			Source: 0904018-04			Prepared: 09/20/09		Analyzed: 09/21/09			
Antimony	36.3	0.58	0.0064	mg/kg dry	46.4	<0.58	78.2	75-125			
Arsenic	43.7	0.58	0.12	mg/kg dry	46.4	5.85	81.6	75-125			
Beryllium	3.89	0.29	0.013	mg/kg dry	4.64	<0.29	81.0	75-125			
Cadmium	38.6	0.29	0.029	mg/kg dry	46.4	<0.29	83.2	75-125			
Chromium	54.6	0.58	0.014	mg/kg dry	46.4	14.3	87.0	75-125			
Copper	51.3	1.2	0.081	mg/kg dry	46.4	11.4	86.0	75-125			
Lead	47.9	1.2	0.040	mg/kg dry	46.4	8.24	85.4	75-125			
Nickel	55.3	0.58	0.016	mg/kg dry	46.4	17.6	81.4	75-125			
Selenium	36.0	1.2	0.13	mg/kg dry	46.4	<1.2	77.5	75-125			
Silver	3.57	0.29	0.010	mg/kg dry	4.64	<0.29	76.9	75-125			
Thallium	37.3	2.3	0.15	mg/kg dry	46.4	<2.3	80.4	75-125			
Zinc	27.6	1.2	0.26	mg/kg dry	46.4	<1.2	59.6	75-125			M2
Matrix Spike Dup (B9I2002-MSD1)											
Source: 0904018-04					Prepared: 09/20/09		Analyzed: 09/21/09				
Antimony	37.8	0.58	0.0064	mg/kg dry	46.4	<0.58	81.5	75-125	4.12	20	
Arsenic	44.7	0.58	0.12	mg/kg dry	46.4	5.85	83.7	75-125	2.18	20	
Beryllium	4.03	0.29	0.013	mg/kg dry	4.64	<0.29	84.1	75-125	3.63	20	
Cadmium	39.7	0.29	0.029	mg/kg dry	46.4	<0.29	85.5	75-125	2.78	20	
Chromium	56.8	0.58	0.014	mg/kg dry	46.4	14.3	91.5	75-125	3.82	20	
Copper	53.3	1.2	0.081	mg/kg dry	46.4	11.4	90.2	75-125	3.71	20	
Lead	48.3	1.2	0.040	mg/kg dry	46.4	8.24	86.4	75-125	1.03	20	
Nickel	57.5	0.58	0.016	mg/kg dry	46.4	17.6	86.1	75-125	3.93	20	
Selenium	37.3	1.2	0.13	mg/kg dry	46.4	<1.2	80.4	75-125	3.56	20	
Silver	3.70	0.29	0.010	mg/kg dry	4.64	<0.29	79.8	75-125	3.76	20	
Thallium	39.0	2.3	0.15	mg/kg dry	46.4	<2.3	84.1	75-125	4.41	20	
Zinc	24.1	1.2	0.26	mg/kg dry	46.4	<1.2	51.9	75-125	13.7	20	M2

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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2115 - EPA 7471A											
Blank (B9I2115-BLK1)											
						Prepared: 09/21/09 Analyzed: 09/22/09					
Mercury	< 0.10	0.10	0.0018	mg/kg wet							
LCS (B9I2115-BS1)											
						Prepared: 09/21/09 Analyzed: 09/22/09					
Mercury	0.225	0.10	0.0018	mg/kg wet	0.200		112	80-120			
LCS Dup (B9I2115-BSD1)											
						Prepared: 09/21/09 Analyzed: 09/22/09					
Mercury	0.226	0.10	0.0018	mg/kg wet	0.200		113	80-120	0.443	20	
Matrix Spike (B9I2115-MS1)											
						Source: 0904018-04 Prepared: 09/21/09 Analyzed: 09/22/09					
Mercury	0.245	0.12	0.0021	mg/kg dry	0.233	<0.12	94.0	75-125			
Matrix Spike Dup (B9I2115-MSD1)											
						Source: 0904018-04 Prepared: 09/21/09 Analyzed: 09/22/09					
Mercury	0.269	0.12	0.0021	mg/kg dry	0.233	<0.12	104	75-125	9.05	20	

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PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I1410 - General Preparation											
Duplicate (B9I1410-DUP1)							Source: 0903945-10				Prepared: 09/14/09 Analyzed: 09/15/09
% Solids	83.0			%		85.0			2.38	20	
Duplicate (B9I1410-DUP2)							Source: 0903975-01				Prepared: 09/14/09 Analyzed: 09/15/09
% Solids	80.0			%		87.0			8.38	20	
Duplicate (B9I1410-DUP3)							Source: 0904010-02				Prepared: 09/14/09 Analyzed: 09/15/09
% Solids	95.0			%		95.0			0.00	20	
Duplicate (B9I1410-DUP4)							Source: 0904018-07				Prepared: 09/14/09 Analyzed: 09/15/09
% Solids	87.0			%		87.0			0.00	20	

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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9I1503 - EPA 3510C (Sep Funnel)

Blank (B9I1503-BLK1)

Prepared: 09/15/09 Analyzed: 09/16/09

1,2,4-Trichlorobenzene	< 0.19	10	0.19	ug/L							
1,2-Dichlorobenzene	< 0.23	10	0.23	ug/L							
1,2-Diphenylhydrazine as Azobenzene	< 0.24	10	0.24	ug/L							
1,3-Dichlorobenzene	< 0.21	10	0.21	ug/L							
1,4-Dichlorobenzene	< 0.22	10	0.22	ug/L							
2,3,4,6-Tetrachlorophenol	< 0.61	10	0.61	ug/L							
2,4,5-Trichlorophenol	< 0.80	10	0.80	ug/L							
2,4,6-Trichlorophenol	< 0.48	10	0.48	ug/L							
2,4-Dichlorophenol	< 0.47	10	0.47	ug/L							
2,4-Dimethylphenol	< 1.6	10	1.6	ug/L							
2,4-Dinitrophenol	< 1.0	10	1.0	ug/L							
2,4-Dinitrotoluene	< 0.33	10	0.33	ug/L							
2,6-Dichlorophenol	< 0.48	10	0.48	ug/L							
2,6-Dinitrotoluene	< 0.36	10	0.36	ug/L							
2-Chloronaphthalene	< 0.28	10	0.28	ug/L							
2-Chlorophenol	< 0.45	10	0.45	ug/L							
2-Methylnaphthalene	< 0.66	10	0.66	ug/L							
2-Methylphenol	< 0.63	10	0.63	ug/L							
2-Nitroaniline	< 0.72	10	0.72	ug/L							
2-Nitrophenol	< 0.90	10	0.90	ug/L							
3,3'-Dichlorobenzidine	< 7.3	25	7.3	ug/L							
3-Nitroaniline	< 1.2	10	1.2	ug/L							
4,6-Dinitro-2-methylphenol	< 0.65	10	0.65	ug/L							
4-Bromophenyl phenyl ether	< 0.17	10	0.17	ug/L							
4-Chloro-3-methylphenol	< 0.55	10	0.55	ug/L							
4-Chloroaniline	< 2.3	10	2.3	ug/L							
4-Chlorophenyl phenyl ether	< 0.25	10	0.25	ug/L							
4-Methylphenol	< 0.79	10	0.79	ug/L							
4-Nitroaniline	< 0.59	10	0.59	ug/L							
4-Nitrophenol	< 1.2	10	1.2	ug/L							
Acenaphthene	< 0.36	10	0.36	ug/L							
Acenaphthylene	< 0.25	10	0.25	ug/L							
Aniline	< 2.2	10	2.2	ug/L							
Anthracene	< 0.37	10	0.37	ug/L							
Benzidine	< 18	100	18	ug/L							
Benzo (a) anthracene	< 0.37	10	0.37	ug/L							
Benzo (a) pyrene	< 0.29	10	0.29	ug/L							
Benzo (b) fluoranthene	< 0.22	10	0.22	ug/L							
Benzo (g,h,i) perylene	< 0.26	10	0.26	ug/L							

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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9I1503 - EPA 3510C (Sep Funnel)

Blank (B9I1503-BLK1)

Prepared: 09/15/09 Analyzed: 09/16/09

Benzo (k) fluoranthene	< 0.31	10	0.31	ug/L							
Benzoic acid	< 1.2	10	1.2	ug/L							
Benzyl alcohol	< 0.54	10	0.54	ug/L							
Bis(2-chloroethoxy)methane	< 0.18	10	0.18	ug/L							
Bis(2-chloroethyl)ether	< 0.17	10	0.17	ug/L							
Bis(2-chloroisopropyl)ether	< 0.19	10	0.19	ug/L							
Bis(2-ethylhexyl)phthalate	< 0.43	10	0.43	ug/L							
Butyl benzyl phthalate	< 0.37	10	0.37	ug/L							
Carbazole	< 0.26	10	0.26	ug/L							
Chrysene	< 0.27	10	0.27	ug/L							
Dibenz (a,h) anthracene	< 0.23	10	0.23	ug/L							
Dibenzofuran	< 0.39	10	0.39	ug/L							
Diethyl phthalate	< 0.23	10	0.23	ug/L							
Dimethyl phthalate	< 0.24	10	0.24	ug/L							
Di-n-butyl phthalate	< 0.28	10	0.28	ug/L							
Di-n-octyl phthalate	< 0.38	10	0.38	ug/L							
Fluoranthene	< 0.39	10	0.39	ug/L							
Fluorene	< 0.40	10	0.40	ug/L							
Hexachlorobenzene	< 0.20	10	0.20	ug/L							
Hexachlorobutadiene	< 0.26	10	0.26	ug/L							
Hexachlorocyclopentadiene	< 0.31	10	0.31	ug/L							
Hexachloroethane	< 0.31	10	0.31	ug/L							
Indeno (1,2,3-cd) pyrene	< 0.31	10	0.31	ug/L							
Isophorone	< 0.23	10	0.23	ug/L							
Naphthalene	< 0.37	10	0.37	ug/L							
Nitrobenzene	< 0.39	10	0.39	ug/L							
N-Nitrosodimethylamine	< 0.95	10	0.95	ug/L							
N-Nitrosodi-n-propylamine	< 0.21	10	0.21	ug/L							
N-Nitrosodiphenylamine	< 0.23	10	0.23	ug/L							
Pentachlorophenol	< 0.59	10	0.59	ug/L							
Phenanthrene	< 0.39	10	0.39	ug/L							
Phenol	< 0.57	10	0.57	ug/L							
Pyrene	< 0.47	10	0.47	ug/L							
Surrogate: 2,4,6-Tribromophenol	84.8			ug/L	100		84.8	48.5-114			
Surrogate: 2-Fluorobiphenyl	62.8			ug/L	100		62.8	41.7-98.4			
Surrogate: 2-Fluorophenol	37.7			ug/L	100		37.7	30-93.5			
Surrogate: Nitrobenzene-d5	67.9			ug/L	100		67.9	47.4-97.8			
Surrogate: Phenol-d6	35.2			ug/L	100		35.2	30-91.5			
Surrogate: Terphenyl-d14	73.7			ug/L	100		73.7	30-108			

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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B911503 - EPA 3510C (Sep Funnel)

LCS (B911503-BS1)

Prepared: 09/15/09 Analyzed: 09/16/09

1,2,4-Trichlorobenzene	58.6	10	0.19	ug/L	100		58.6	48.2-88.3			
1,4-Dichlorobenzene	53.4	10	0.22	ug/L	100		53.4	42.8-82.2			
2,4-Dinitrotoluene	90.1	10	0.33	ug/L	100		90.1	64.6-98.9			
2-Chlorophenol	62.9	10	0.45	ug/L	100		62.9	56.5-88.1			
4-Chloro-3-methylphenol	75.0	10	0.55	ug/L	100		75.0	63.4-95.2			
4-Nitrophenol	60.6	10	1.2	ug/L	100		60.6	51.3-90.6			
Anthracene	84.4	10	0.37	ug/L	100		84.4	66.7-92.8			
Benzo (a) anthracene	91.4	10	0.37	ug/L	100		91.4	72.7-97.2			
Benzo (a) pyrene	86.3	10	0.29	ug/L	100		86.3	66.4-101			
Chrysene	90.9	10	0.27	ug/L	100		90.9	71.5-98.1			
Fluoranthene	83.5	10	0.39	ug/L	100		83.5	68.8-94			
Fluorene	80.1	10	0.40	ug/L	100		80.1	64.2-94.4			
N-Nitrosodi-n-propylamine	85.8	10	0.21	ug/L	100		85.8	63.6-92.8			
Pentachlorophenol	87.5	10	0.59	ug/L	100		87.5	60.2-101			
Phenanthrene	85.6	10	0.39	ug/L	100		85.6	68.1-94.8			
Phenol	43.1	10	0.57	ug/L	100		43.1	39.6-71			
Surrogate: 2,4,6-Tribromophenol	87.9			ug/L	100		87.9	48.5-114			
Surrogate: 2-Fluorobiphenyl	70.5			ug/L	100		70.5	41.7-98.4			
Surrogate: 2-Fluorophenol	49.7			ug/L	100		49.7	30-93.5			
Surrogate: Nitrobenzene-d5	82.4			ug/L	100		82.4	47.4-97.8			
Surrogate: Phenol-d6	44.1			ug/L	100		44.1	30-91.5			
Surrogate: Terphenyl-d14	83.3			ug/L	100		83.3	30-108			

LCS Dup (B911503-BSD1)

Prepared: 09/15/09 Analyzed: 09/16/09

1,2,4-Trichlorobenzene	60.1	10	0.19	ug/L	100		60.1	48.2-88.3	2.60	20	
1,4-Dichlorobenzene	55.1	10	0.22	ug/L	100		55.1	42.8-82.2	3.10	20	
2,4-Dinitrotoluene	91.5	10	0.33	ug/L	100		91.5	64.6-98.9	1.51	20	
2-Chlorophenol	63.6	10	0.45	ug/L	100		63.6	56.5-88.1	1.07	20	
4-Chloro-3-methylphenol	77.9	10	0.55	ug/L	100		77.9	63.4-95.2	3.85	20	
4-Nitrophenol	61.0	10	1.2	ug/L	100		61.0	51.3-90.6	0.653	20	
Anthracene	86.3	10	0.37	ug/L	100		86.3	66.7-92.8	2.22	20	
Benzo (a) anthracene	93.9	10	0.37	ug/L	100		93.9	72.7-97.2	2.77	20	
Benzo (a) pyrene	88.6	10	0.29	ug/L	100		88.6	66.4-101	2.61	20	
Chrysene	93.0	10	0.27	ug/L	100		93.0	71.5-98.1	2.27	20	
Fluoranthene	85.6	10	0.39	ug/L	100		85.6	68.8-94	2.41	20	
Fluorene	81.1	10	0.40	ug/L	100		81.1	64.2-94.4	1.22	20	
N-Nitrosodi-n-propylamine	86.4	10	0.21	ug/L	100		86.4	63.6-92.8	0.697	20	
Pentachlorophenol	89.1	10	0.59	ug/L	100		89.1	60.2-101	1.80	20	
Phenanthrene	87.4	10	0.39	ug/L	100		87.4	68.1-94.8	2.15	20	
Phenol	41.6	10	0.57	ug/L	100		41.6	39.6-71	3.47	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B911503 - EPA 3510C (Sep Funnel)

LCS Dup (B911503-BSD1)

Prepared: 09/15/09 Analyzed: 09/16/09

Surrogate: 2,4,6-Tribromophenol	90.1			ug/L	100		90.1	48.5-114			
Surrogate: 2-Fluorobiphenyl	69.6			ug/L	100		69.6	41.7-98.4			
Surrogate: 2-Fluorophenol	47.8			ug/L	100		47.8	30-93.5			
Surrogate: Nitrobenzene-d5	82.3			ug/L	100		82.3	47.4-97.8			
Surrogate: Phenol-d6	42.3			ug/L	100		42.3	30-91.5			
Surrogate: Terphenyl-d14	85.4			ug/L	100		85.4	30-108			

Matrix Spike (B911503-MS1)

Source: 0904005-01

Prepared: 09/15/09 Analyzed: 09/16/09

1,2,4-Trichlorobenzene	69.3	10	0.19	ug/L	101	<10	69.0	43.8-87.4			
1,4-Dichlorobenzene	61.4	10	0.22	ug/L	101	<10	61.1	43.7-78.7			
2,4-Dinitrotoluene	89.5	10	0.33	ug/L	101	<10	89.1	52.8-100			
2-Chlorophenol	60.7	10	0.45	ug/L	101	<10	60.4	30.1-95			
4-Chloro-3-methylphenol	73.8	10	0.55	ug/L	101	<10	73.5	44.8-98.7			
4-Nitrophenol	60.1	10	1.2	ug/L	101	<10	59.8	32.5-99.6			
Anthracene	83.9	10	0.37	ug/L	101	<10	83.5	44.8-97.6			
Benzo (a) anthracene	88.6	10	0.37	ug/L	101	<10	88.2	30-115			
Benzo (a) pyrene	82.5	10	0.29	ug/L	101	<10	82.1	30-110			
Chrysene	87.3	10	0.27	ug/L	101	<10	86.9	30-115			
Fluoranthene	82.6	10	0.39	ug/L	101	<10	82.1	37.4-103			
Fluorene	80.7	10	0.40	ug/L	101	<10	80.3	49.6-92.1			
N-Nitrosodi-n-propylamine	83.2	10	0.21	ug/L	101	<10	82.8	44.9-100			
Pentachlorophenol	86.5	10	0.59	ug/L	101	<10	86.0	31.2-123			
Phenanthrene	84.8	10	0.39	ug/L	101	<10	84.4	47-99.1			
Phenol	42.5	10	0.57	ug/L	101	<10	42.3	30-79.5			
Surrogate: 2,4,6-Tribromophenol	85.1			ug/L	101		84.6	48.5-114			
Surrogate: 2-Fluorobiphenyl	72.9			ug/L	101		72.5	41.7-98.4			
Surrogate: 2-Fluorophenol	47.5			ug/L	101		47.2	30-93.5			
Surrogate: Nitrobenzene-d5	80.6			ug/L	101		80.2	47.4-97.8			
Surrogate: Phenol-d6	43.1			ug/L	101		42.8	30-91.5			
Surrogate: Terphenyl-d14	74.1			ug/L	101		73.8	30-108			

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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B911703 - EPA 3545 ASE Extraction

Blank (B911703-BLK1)

Prepared & Analyzed: 09/17/09

1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3'-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Neppi	Work Order #: 0904018 Date Reported: 09/25/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B911703 - EPA 3545 ASE Extraction

Blank (B911703-BLK1)

Prepared & Analyzed: 09/17/09

Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	4.34			mg/kg wet	6.67		65.2	47.2-108			
Surrogate: 2-Fluorobiphenyl	3.67			mg/kg wet	6.67		55.0	53.2-85.1			
Surrogate: 2-Fluorophenol	3.94			mg/kg wet	6.67		59.1	48.5-90.1			
Surrogate: Nitrobenzene-d5	3.98			mg/kg wet	6.67		59.7	49.1-86.9			
Surrogate: Phenol-d6	4.24			mg/kg wet	6.67		63.6	47.6-99.6			
Surrogate: Terphenyl-d14	4.12			mg/kg wet	6.67		61.8	43.6-112			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B911703 - EPA 3545 ASE Extraction

LCS (B911703-BS1)

Prepared & Analyzed: 09/17/09

1,2,4-Trichlorobenzene	4.70	0.33	0.027	mg/kg wet	6.67		70.5	50.7-82.1			
1,4-Dichlorobenzene	4.18	0.33	0.024	mg/kg wet	6.67		62.7	44-77			
2,4-Dinitrotoluene	4.98	0.33	0.021	mg/kg wet	6.67		74.7	56.7-81.7			
2-Chlorophenol	4.78	0.67	0.038	mg/kg wet	6.67		71.7	52.3-88.2			
4-Chloro-3-methylphenol	4.87	0.67	0.040	mg/kg wet	6.67		73.0	53.4-87			
4-Nitrophenol	5.26	0.67	0.099	mg/kg wet	6.67		78.9	55.7-87.1			
Anthracene	5.24	0.33	0.025	mg/kg wet	6.67		78.6	65.3-92			
Benzo (a) anthracene	5.59	0.33	0.027	mg/kg wet	6.67		83.8	69-95.3			
Benzo (a) pyrene	5.55	0.33	0.027	mg/kg wet	6.67		83.3	68.5-98.2			
Chrysene	5.48	0.33	0.033	mg/kg wet	6.67		82.2	68.6-94.2			
Fluoranthene	5.13	0.33	0.024	mg/kg wet	6.67		77.0	64.3-94.6			
Fluorene	4.90	0.33	0.018	mg/kg wet	6.67		73.5	61.9-89.4			
N-Nitrosodi-n-propylamine	5.11	0.33	0.025	mg/kg wet	6.67		76.7	55.5-91.1			
Pentachlorophenol	4.26	0.67	0.096	mg/kg wet	6.67		64.0	54.7-74.6			
Phenanthrene	5.10	0.33	0.019	mg/kg wet	6.67		76.5	64.3-90.9			
Phenol	4.71	0.67	0.057	mg/kg wet	6.67		70.7	49.7-85.4			
<i>Surrogate: 2,4,6-Tribromophenol</i>	5.54			mg/kg wet	6.67		83.0	47.2-108			
<i>Surrogate: 2-Fluorobiphenyl</i>	4.57			mg/kg wet	6.67		68.5	53.2-85.1			
<i>Surrogate: 2-Fluorophenol</i>	5.01			mg/kg wet	6.67		75.2	48.5-90.1			
<i>Surrogate: Nitrobenzene-d5</i>	5.04			mg/kg wet	6.67		75.6	49.1-86.9			
<i>Surrogate: Phenol-d6</i>	5.36			mg/kg wet	6.67		80.5	47.6-99.6			
<i>Surrogate: Terphenyl-d14</i>	5.20			mg/kg wet	6.67		78.0	43.6-112			

Matrix Spike (B911703-MS1)

Source: 0904018-04

Prepared & Analyzed: 09/17/09

1,2,4-Trichlorobenzene	5.35	0.38	0.031	mg/kg dry	7.75	<0.38	69.0	51-77.5			
1,4-Dichlorobenzene	4.64	0.38	0.028	mg/kg dry	7.75	<0.38	59.8	41.7-73.4			
2,4-Dinitrotoluene	5.60	0.38	0.024	mg/kg dry	7.75	<0.38	72.3	50-84.8			
2-Chlorophenol	5.45	0.78	0.044	mg/kg dry	7.75	<0.78	70.3	47.8-90.8			
4-Chloro-3-methylphenol	5.63	0.78	0.047	mg/kg dry	7.75	<0.78	72.6	48.4-95.1			
4-Nitrophenol	6.12	0.78	0.12	mg/kg dry	7.75	<0.78	78.9	44-105			
Anthracene	5.99	0.38	0.029	mg/kg dry	7.75	<0.38	77.2	60.2-97.3			
Benzo (a) anthracene	6.33	0.38	0.031	mg/kg dry	7.75	<0.38	81.6	59.8-102			
Benzo (a) pyrene	6.33	0.38	0.031	mg/kg dry	7.75	<0.38	81.6	57.2-105			
Chrysene	6.22	0.38	0.038	mg/kg dry	7.75	<0.38	80.3	59.2-102			
Fluoranthene	5.84	0.38	0.028	mg/kg dry	7.75	<0.38	75.4	50.4-108			
Fluorene	5.73	0.38	0.021	mg/kg dry	7.75	<0.38	73.9	57.8-94.4			
N-Nitrosodi-n-propylamine	5.77	0.38	0.029	mg/kg dry	7.75	<0.38	74.5	46.2-96.2			
Pentachlorophenol	5.30	0.78	0.11	mg/kg dry	7.75	<0.78	68.4	53.6-80.4			
Phenanthrene	5.90	0.38	0.022	mg/kg dry	7.75	<0.38	76.1	58.4-97.5			
Phenol	5.39	0.78	0.066	mg/kg dry	7.75	<0.78	69.5	44-88.5			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B911703 - EPA 3545 ASE Extraction

Matrix Spike (B911703-MS1)

Source: 0904018-04

Prepared & Analyzed: 09/17/09

Surrogate: 2,4,6-Tribromophenol	6.36			mg/kg dry	7.75		82.0	47.2-108			
Surrogate: 2-Fluorobiphenyl	5.25			mg/kg dry	7.75		67.8	53.2-85.1			
Surrogate: 2-Fluorophenol	5.65			mg/kg dry	7.75		72.9	48.5-90.1			
Surrogate: Nitrobenzene-d5	5.70			mg/kg dry	7.75		73.5	49.1-86.9			
Surrogate: Phenol-d6	6.02			mg/kg dry	7.75		77.7	47.6-99.6			
Surrogate: Terphenyl-d14	5.71			mg/kg dry	7.75		73.6	43.6-112			

Matrix Spike Dup (B911703-MSD1)

Source: 0904018-04

Prepared & Analyzed: 09/17/09

1,2,4-Trichlorobenzene	5.15	0.38	0.031	mg/kg dry	7.75	<0.38	66.5	51-77.5	3.73	15.7	
1,4-Dichlorobenzene	4.39	0.38	0.028	mg/kg dry	7.75	<0.38	56.7	41.7-73.4	5.40	14.7	
2,4-Dinitrotoluene	5.67	0.38	0.024	mg/kg dry	7.75	<0.38	73.1	50-84.8	1.16	20.5	
2-Chlorophenol	5.29	0.78	0.044	mg/kg dry	7.75	<0.78	68.3	47.8-90.8	2.97	19.8	
4-Chloro-3-methylphenol	5.52	0.78	0.047	mg/kg dry	7.75	<0.78	71.2	48.4-95.1	1.99	18.7	
4-Nitrophenol	6.22	0.78	0.12	mg/kg dry	7.75	<0.78	80.2	44-105	1.60	30.9	
Anthracene	6.07	0.38	0.029	mg/kg dry	7.75	<0.38	78.2	60.2-97.3	1.29	15.1	
Benzo (a) anthracene	6.37	0.38	0.031	mg/kg dry	7.75	<0.38	82.2	59.8-102	0.715	19.6	
Benzo (a) pyrene	6.39	0.38	0.031	mg/kg dry	7.75	<0.38	82.5	57.2-105	1.01	19.4	
Chrysene	6.27	0.38	0.038	mg/kg dry	7.75	<0.38	80.9	59.2-102	0.811	19.6	
Fluoranthene	5.92	0.38	0.028	mg/kg dry	7.75	<0.38	76.3	50.4-108	1.27	21	
Fluorene	5.66	0.38	0.021	mg/kg dry	7.75	<0.38	73.0	57.8-94.4	1.29	15.8	
N-Nitrosodi-n-propylamine	5.60	0.38	0.029	mg/kg dry	7.75	<0.38	72.3	46.2-96.2	2.97	17.1	
Pentachlorophenol	5.43	0.78	0.11	mg/kg dry	7.75	<0.78	70.1	53.6-80.4	2.42	22.4	
Phenanthrene	5.94	0.38	0.022	mg/kg dry	7.75	<0.38	76.7	58.4-97.5	0.674	14.3	
Phenol	5.27	0.78	0.066	mg/kg dry	7.75	<0.78	67.9	44-88.5	2.34	21.5	
Surrogate: 2,4,6-Tribromophenol	6.40			mg/kg dry	7.75		82.5	47.2-108			
Surrogate: 2-Fluorobiphenyl	5.11			mg/kg dry	7.75		66.0	53.2-85.1			
Surrogate: 2-Fluorophenol	5.42			mg/kg dry	7.75		69.9	48.5-90.1			
Surrogate: Nitrobenzene-d5	5.45			mg/kg dry	7.75		70.3	49.1-86.9			
Surrogate: Phenol-d6	5.85			mg/kg dry	7.75		75.5	47.6-99.6			
Surrogate: Terphenyl-d14	5.85			mg/kg dry	7.75		75.4	43.6-112			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Neppl	Work Order #: 0904018 Date Reported: 09/25/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B911714 - EPA 5035 Soil (Purge and Trap)

Blank (B911714-BLK1)

Prepared & Analyzed: 09/17/09

1,1,1,2-Tetrachloroethane	< 0.026	0.25	0.026	mg/kg wet							
1,1,1-Trichloroethane	< 0.033	0.25	0.033	mg/kg wet							
1,1,2,2-Tetrachloroethane	< 0.025	0.25	0.025	mg/kg wet							
1,1,2-Trichloroethane	< 0.037	0.25	0.037	mg/kg wet							
1,1,2-Trichlorotrifluoroethane	< 0.065	0.25	0.065	mg/kg wet							
1,1-Dichloroethane	< 0.024	0.25	0.024	mg/kg wet							
1,1-Dichloroethene	< 0.025	0.25	0.025	mg/kg wet							
1,1-Dichloropropene	< 0.027	0.25	0.027	mg/kg wet							
1,2,3-Trichlorobenzene	< 0.066	0.50	0.066	mg/kg wet							
1,2,3-Trichloropropane	< 0.053	0.25	0.053	mg/kg wet							
1,2,4-Trichlorobenzene	< 0.064	0.50	0.064	mg/kg wet							
1,2,4-Trimethylbenzene	< 0.020	0.25	0.020	mg/kg wet							
1,2-Dibromo-3-chloropropane	< 0.057	0.50	0.057	mg/kg wet							
1,2-Dibromoethane (EDB)	< 0.038	0.25	0.038	mg/kg wet							
1,2-Dichlorobenzene	< 0.027	0.25	0.027	mg/kg wet							
1,2-Dichloroethane	< 0.025	0.25	0.025	mg/kg wet							
1,2-Dichloropropane	< 0.028	0.25	0.028	mg/kg wet							
1,3,5-Trimethylbenzene	< 0.015	0.25	0.015	mg/kg wet							
1,3-Dichlorobenzene	< 0.028	0.25	0.028	mg/kg wet							
1,3-Dichloropropane	< 0.017	0.25	0.017	mg/kg wet							
1,4-Dichlorobenzene	< 0.018	0.25	0.018	mg/kg wet							
2,2-Dichloropropane	< 0.068	0.50	0.068	mg/kg wet							
2-Butanone	< 0.12	2.0	0.12	mg/kg wet							
2-Chlorotoluene	< 0.018	0.25	0.018	mg/kg wet							
4-Chlorotoluene	< 0.029	0.25	0.029	mg/kg wet							
Acetone	< 0.32	2.0	0.32	mg/kg wet							
Allyl chloride	< 0.067	0.50	0.067	mg/kg wet							
Benzene	< 0.015	0.25	0.015	mg/kg wet							
Bromobenzene	< 0.019	0.25	0.019	mg/kg wet							
Bromochloromethane	< 0.025	0.25	0.025	mg/kg wet							
Bromodichloromethane	< 0.035	0.25	0.035	mg/kg wet							
Bromoform	< 0.080	0.50	0.080	mg/kg wet							
Bromomethane	< 0.14	0.50	0.14	mg/kg wet							
Carbon tetrachloride	< 0.027	0.25	0.027	mg/kg wet							
Chlorobenzene	< 0.025	0.25	0.025	mg/kg wet							
Chloroethane	< 0.073	0.25	0.073	mg/kg wet							
Chloroform	< 0.042	0.25	0.042	mg/kg wet							
Chloromethane	< 0.041	0.25	0.041	mg/kg wet							
cis-1,2-Dichloroethene	< 0.046	0.25	0.046	mg/kg wet							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B911714 - EPA 5035 Soil (Purge and Trap)

Blank (B911714-BLK1)

Prepared & Analyzed: 09/17/09

cis-1,3-Dichloropropene	< 0.023	0.25	0.023	mg/kg wet							
Dibromochloromethane	< 0.032	0.25	0.032	mg/kg wet							
Dibromomethane	< 0.046	0.25	0.046	mg/kg wet							
Dichlorodifluoromethane	< 0.082	0.50	0.082	mg/kg wet							
Dichlorofluoromethane	< 0.044	0.25	0.044	mg/kg wet							
Ethyl ether	< 0.048	0.50	0.048	mg/kg wet							
Ethylbenzene	< 0.022	0.25	0.022	mg/kg wet							
Hexachlorobutadiene	< 0.13	1.0	0.13	mg/kg wet							
Isopropylbenzene	< 0.023	0.25	0.023	mg/kg wet							
m,p-Xylene	< 0.088	0.50	0.088	mg/kg wet							
Methyl isobutyl ketone	< 0.092	0.50	0.092	mg/kg wet							
Methyl tert-butyl ether	< 0.017	0.25	0.017	mg/kg wet							
Methylene chloride	< 0.17	1.0	0.17	mg/kg wet							
Naphthalene	< 0.065	0.50	0.065	mg/kg wet							
n-Butylbenzene	< 0.032	0.25	0.032	mg/kg wet							
n-Propylbenzene	< 0.014	0.25	0.014	mg/kg wet							
o-Xylene	< 0.031	0.25	0.031	mg/kg wet							
p-Isopropyltoluene	< 0.030	0.25	0.030	mg/kg wet							
sec-Butylbenzene	< 0.010	0.25	0.010	mg/kg wet							
Styrene	< 0.040	0.25	0.040	mg/kg wet							
tert-Butylbenzene	< 0.018	0.25	0.018	mg/kg wet							
Tetrachloroethene	< 0.035	0.25	0.035	mg/kg wet							
Tetrahydrofuran	< 0.10	2.0	0.10	mg/kg wet							
Toluene	< 0.028	0.25	0.028	mg/kg wet							
trans-1,2-Dichloroethene	< 0.022	0.25	0.022	mg/kg wet							
trans-1,3-Dichloropropene	< 0.035	0.25	0.035	mg/kg wet							
Trichloroethene	< 0.040	0.25	0.040	mg/kg wet							
Trichlorofluoromethane	< 0.032	0.25	0.032	mg/kg wet							
Vinyl chloride	< 0.023	0.25	0.023	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	49.2			ug/L	50.0		98.3	80-120			
Surrogate: Dibromofluoromethane	48.7			ug/L	50.0		97.4	80-120			
Surrogate: Toluene-d8	47.1			ug/L	50.0		94.2	80-120			

LCS (B911714-BS1)

Prepared & Analyzed: 09/17/09

1,1,2,2-Tetrachloroethane	50.2			ug/L	50.0		100	80-120			
1,1-Dichloroethane	47.2			ug/L	50.0		94.5	78.8-120			
1,1-Dichloroethene	46.4			ug/L	50.0		92.8	75-125			
1,3,5-Trimethylbenzene	53.0			ug/L	50.0		106	80-120			
1,4-Dichlorobenzene	50.6			ug/L	50.0		101	75-125			
2-Chlorotoluene	52.8			ug/L	50.0		106	80-120			

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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B911714 - EPA 5035 Soil (Purge and Trap)

LCS (B911714-BS1)

Prepared & Analyzed: 09/17/09

Benzene	45.1			ug/L	50.0		90.2	80-120			
Bromoform	54.4			ug/L	50.0		109	77.1-125			
Chlorobenzene	50.9			ug/L	50.0		102	80-120			
Chloroform	47.8			ug/L	50.0		95.5	77.3-120			
Ethylbenzene	52.1			ug/L	50.0		104	80-120			
n-Butylbenzene	48.4			ug/L	50.0		96.7	70.1-125			
n-Propylbenzene	52.5			ug/L	50.0		105	75-120			
Toluene	45.5			ug/L	50.0		90.9	80-120			
Trichloroethene	49.7			ug/L	50.0		99.3	80-120			
Vinyl chloride	48.8			ug/L	50.0		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	53.0			ug/L	50.0		106	80-120			
Surrogate: Dibromofluoromethane	48.5			ug/L	50.0		96.9	80-120			
Surrogate: Toluene-d8	48.2			ug/L	50.0		96.4	80-120			

Matrix Spike (B911714-MS1)

Source: 0904018-04

Prepared & Analyzed: 09/17/09

1,1,2,2-Tetrachloroethane	51.4			ug/L	50.0	<	103	80-120			
1,1-Dichloroethane	46.4			ug/L	50.0	<	92.8	77.5-120			
1,1-Dichloroethene	45.2			ug/L	50.0	<	90.5	76.1-125			
1,3,5-Trimethylbenzene	53.8			ug/L	50.0	<	108	80-120			
1,4-Dichlorobenzene	50.2			ug/L	50.0	<	100	75-125			
2-Chlorotoluene	52.9			ug/L	50.0	<	106	76.9-120			
Benzene	44.6			ug/L	50.0	<	89.3	80-120			
Bromoform	54.2			ug/L	50.0	<	108	80-125			
Chlorobenzene	51.2			ug/L	50.0	<	102	80-120			
Chloroform	46.9			ug/L	50.0	<	93.8	80-120			
Ethylbenzene	51.5			ug/L	50.0	<	103	80-120			
n-Butylbenzene	50.4			ug/L	50.0	<	101	74.7-125			
n-Propylbenzene	53.3			ug/L	50.0	<	107	75-120			
Toluene	45.0			ug/L	50.0	<	90.0	80-120			
Trichloroethene	47.7			ug/L	50.0	<	95.5	80-120			
Vinyl chloride	44.8			ug/L	50.0	<	89.6	70-125			
Surrogate: 4-Bromofluorobenzene	50.4			ug/L	50.0		101	80-120			
Surrogate: Dibromofluoromethane	47.6			ug/L	50.0		95.2	80-120			
Surrogate: Toluene-d8	46.9			ug/L	50.0		93.9	80-120			

Matrix Spike Dup (B911714-MSD1)

Source: 0904018-04

Prepared & Analyzed: 09/17/09

1,1,2,2-Tetrachloroethane	51.9			ug/L	50.0	<	104	80-120	1.14	20	
1,1-Dichloroethane	47.5			ug/L	50.0	<	95.1	77.5-120	2.45	20	
1,1-Dichloroethene	47.8			ug/L	50.0	<	95.6	76.1-125	5.54	20	
1,3,5-Trimethylbenzene	54.9			ug/L	50.0	<	110	80-120	1.99	20	

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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B911714 - EPA 5035 Soil (Purge and Trap)											
Matrix Spike Dup (B911714-MSD1)			Source: 0904018-04			Prepared & Analyzed: 09/17/09					
1,4-Dichlorobenzene	52.3			ug/L	50.0	<	105	75-125	4.12	20	
2-Chlorotoluene	55.1			ug/L	50.0	<	110	76.9-120	4.11	20	
Benzene	45.8			ug/L	50.0	<	91.7	80-120	2.62	20	
Bromoform	54.8			ug/L	50.0	<	110	80-125	1.00	20	
Chlorobenzene	52.8			ug/L	50.0	<	106	80-120	3.14	20	
Chloroform	47.8			ug/L	50.0	<	95.7	80-120	1.99	20	
Ethylbenzene	53.8			ug/L	50.0	<	108	80-120	4.35	20	
n-Butylbenzene	53.1			ug/L	50.0	<	106	74.7-125	5.30	20	
n-Propylbenzene	55.3			ug/L	50.0	<	111	75-120	3.60	20	
Toluene	46.2			ug/L	50.0	<	92.5	80-120	2.71	20	
Trichloroethene	50.5			ug/L	50.0	<	101	80-120	5.62	20	
Vinyl chloride	46.1			ug/L	50.0	<	92.2	70-125	2.86	20	
Surrogate: 4-Bromofluorobenzene	49.4			ug/L	50.0		98.8	80-120			
Surrogate: Dibromofluoromethane	48.3			ug/L	50.0		96.6	80-120			
Surrogate: Toluene-d8	47.2			ug/L	50.0		94.5	80-120			

Batch B911810 - EPA 5030 Water (Purge and Trap)											
Blank (B911810-BLK1)			Prepared & Analyzed: 09/18/09								
1,1,1,2-Tetrachloroethane	< 0.28	1.0	0.28	ug/L							
1,1,1-Trichloroethane	< 0.17	1.0	0.17	ug/L							
1,1,2,2-Tetrachloroethane	< 0.13	1.0	0.13	ug/L							
1,1,2-Trichloroethane	< 0.19	1.0	0.19	ug/L							
1,1,2-Trichlorotrifluoroethane	< 0.28	1.0	0.28	ug/L							
1,1-Dichloroethane	< 0.11	1.0	0.11	ug/L							
1,1-Dichloroethene	< 0.12	1.0	0.12	ug/L							
1,1-Dichloropropene	< 0.15	1.0	0.15	ug/L							
1,2,3-Trichlorobenzene	< 0.47	5.0	0.47	ug/L							
1,2,3-Trichloropropane	< 0.24	2.5	0.24	ug/L							
1,2,4-Trichlorobenzene	< 0.32	5.0	0.32	ug/L							
1,2,4-Trimethylbenzene	< 0.17	1.0	0.17	ug/L							
1,2-Dibromo-3-chloropropane	< 0.60	5.0	0.60	ug/L							
1,2-Dibromoethane (EDB)	< 0.37	2.5	0.37	ug/L							
1,2-Dichlorobenzene	< 0.16	1.0	0.16	ug/L							
1,2-Dichloroethane	< 0.18	1.0	0.18	ug/L							
1,2-Dichloropropane	< 0.21	1.0	0.21	ug/L							
1,3,5-Trimethylbenzene	< 0.18	1.0	0.18	ug/L							
1,3-Dichlorobenzene	< 0.21	1.0	0.21	ug/L							
1,3-Dichloropropane	< 0.15	1.0	0.15	ug/L							
1,4-Dichlorobenzene	< 0.17	1.0	0.17	ug/L							
2,2-Dichloropropane	< 0.58	5.0	0.58	ug/L							

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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9I1810 - EPA 5030 Water (Purge and Trap)

Blank (B9I1810-BLK1)

Prepared & Analyzed: 09/18/09

2-Butanone	< 0.67	20	0.67	ug/L							
2-Chlorotoluene	< 0.17	1.0	0.17	ug/L							
4-Chlorotoluene	< 0.14	1.0	0.14	ug/L							
Acetone	< 2.8	20	2.8	ug/L							
Allyl chloride	< 0.76	5.0	0.76	ug/L							
Benzene	< 0.093	1.0	0.093	ug/L							
Bromobenzene	< 0.17	1.0	0.17	ug/L							
Bromochloromethane	< 0.21	1.0	0.21	ug/L							
Bromodichloromethane	< 0.22	1.0	0.22	ug/L							
Bromoform	< 0.50	5.0	0.50	ug/L							
Bromomethane	< 0.95	5.0	0.95	ug/L							
Carbon tetrachloride	< 0.16	1.0	0.16	ug/L							
Chlorobenzene	< 0.15	1.0	0.15	ug/L							
Chloroethane	< 0.46	2.5	0.46	ug/L							
Chloroform	< 0.19	1.0	0.19	ug/L							
Chloromethane	< 0.37	2.5	0.37	ug/L							
cis-1,2-Dichloroethene	< 0.19	1.0	0.19	ug/L							
cis-1,3-Dichloropropene	< 0.16	1.0	0.16	ug/L							
Dibromochloromethane	< 0.50	2.5	0.50	ug/L							
Dibromomethane	< 0.30	2.5	0.30	ug/L							
Dichlorodifluoromethane	< 0.58	5.0	0.58	ug/L							
Dichlorofluoromethane	< 0.31	1.0	0.31	ug/L							
Ethyl ether	< 0.53	5.0	0.53	ug/L							
Ethylbenzene	< 0.21	1.0	0.21	ug/L							
Hexachlorobutadiene	< 0.76	10	0.76	ug/L							
Isopropylbenzene	< 0.17	1.0	0.17	ug/L							
m,p-Xylene	< 0.42	2.0	0.42	ug/L							
Methyl isobutyl ketone	< 1.1	5.0	1.1	ug/L							
Methyl tert-butyl ether	< 0.13	1.0	0.13	ug/L							
Methylene chloride	< 0.65	5.0	0.65	ug/L							
Naphthalene	< 0.40	5.0	0.40	ug/L							
n-Butylbenzene	< 0.32	2.5	0.32	ug/L							
n-Propylbenzene	< 0.13	1.0	0.13	ug/L							
o-Xylene	< 0.18	1.0	0.18	ug/L							
p-Isopropyltoluene	< 0.30	2.5	0.30	ug/L							
sec-Butylbenzene	< 0.22	1.0	0.22	ug/L							
Styrene	< 0.13	1.0	0.13	ug/L							
tert-Butylbenzene	< 0.19	1.0	0.19	ug/L							
Tetrachloroethene	< 0.20	1.0	0.20	ug/L							

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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9I1810 - EPA 5030 Water (Purge and Trap)

Blank (B9I1810-BLK1)

Prepared & Analyzed: 09/18/09

Tetrahydrofuran	< 0.77	20	0.77	ug/L							
Toluene	< 0.21	1.0	0.21	ug/L							
trans-1,2-Dichloroethene	< 0.29	1.0	0.29	ug/L							
trans-1,3-Dichloropropene	< 0.17	1.0	0.17	ug/L							
Trichloroethene	< 0.20	1.0	0.20	ug/L							
Trichlorofluoromethane	< 0.17	1.0	0.17	ug/L							
Vinyl chloride	< 0.087	1.0	0.087	ug/L							
Surrogate: 4-Bromofluorobenzene	59.7			ug/L	55.0		109	80-121			
Surrogate: Dibromofluoromethane	56.1			ug/L	55.0		102	79.9-121			
Surrogate: Toluene-d8	55.5			ug/L	55.0		101	80-120			

LCS (B9I1810-BS1)

Prepared & Analyzed: 09/18/09

1,1,1,2-Tetrachloroethane	52.1	1.0	0.13	ug/L	50.0		104	80-121			
1,1-Dichloroethane	46.3	1.0	0.11	ug/L	50.0		92.6	80-125			
1,1-Dichloroethene	44.5	1.0	0.12	ug/L	50.0		89.0	80-125			
1,3,5-Trimethylbenzene	52.8	1.0	0.18	ug/L	50.0		106	75.4-125			
1,4-Dichlorobenzene	52.9	1.0	0.17	ug/L	50.0		106	75-125			
2-Chlorotoluene	51.2	1.0	0.17	ug/L	50.0		102	75.4-125			
Benzene	49.0	1.0	0.093	ug/L	50.0		97.9	80-120			
Bromoform	54.7	5.0	0.50	ug/L	50.0		109	80-120			
Chlorobenzene	54.2	1.0	0.15	ug/L	50.0		108	80-120			
Chloroform	46.3	1.0	0.19	ug/L	50.0		92.6	80-123			
Ethylbenzene	54.2	1.0	0.21	ug/L	50.0		108	80-120			
n-Butylbenzene	51.3	2.5	0.32	ug/L	50.0		103	75-125			
n-Propylbenzene	53.9	1.0	0.13	ug/L	50.0		108	75.8-125			
Toluene	50.8	1.0	0.21	ug/L	50.0		102	80-120			
Trichloroethene	50.0	1.0	0.20	ug/L	50.0		100	80-120			
Vinyl chloride	42.7	1.0	0.087	ug/L	50.0		85.4	75-130			
Surrogate: 4-Bromofluorobenzene	59.6			ug/L	55.0		108	80-121			
Surrogate: Dibromofluoromethane	53.8			ug/L	55.0		97.8	79.9-121			
Surrogate: Toluene-d8	53.8			ug/L	55.0		97.8	80-120			

Matrix Spike (B9I1810-MS1)

Source: 0903969-01

Prepared & Analyzed: 09/18/09

1,1,1,2-Tetrachloroethane	51.1	1.0	0.13	ug/L	50.0	<1.0	102	76.8-125			
1,1-Dichloroethane	45.0	1.0	0.11	ug/L	50.0	<1.0	89.9	80-125			
1,1-Dichloroethene	42.7	1.0	0.12	ug/L	50.0	<1.0	85.4	80-125			
1,3,5-Trimethylbenzene	51.3	1.0	0.18	ug/L	50.0	<1.0	103	75-125			
1,4-Dichlorobenzene	51.8	1.0	0.17	ug/L	50.0	<1.0	104	75-125			
2-Chlorotoluene	48.5	1.0	0.17	ug/L	50.0	<1.0	97.0	75-125			
Benzene	46.2	1.0	0.093	ug/L	50.0	<1.0	92.4	80-120			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B911810 - EPA 5030 Water (Purge and Trap)

Matrix Spike (B911810-MS1)	Source: 0903969-01				Prepared & Analyzed: 09/18/09						
Bromoform	52.5	5.0	0.50	ug/L	50.0	<5.0	105	80-120			
Chlorobenzene	50.1	1.0	0.15	ug/L	50.0	<1.0	100	80-120			
Chloroform	44.8	1.0	0.19	ug/L	50.0	<1.0	89.7	79.8-125			
Ethylbenzene	50.8	1.0	0.21	ug/L	50.0	<1.0	102	80-120			
n-Butylbenzene	48.6	2.5	0.32	ug/L	50.0	<2.5	97.2	75-130			
n-Propylbenzene	50.7	1.0	0.13	ug/L	50.0	<1.0	101	75-125			
Toluene	48.3	1.0	0.21	ug/L	50.0	<1.0	96.7	80-120			
Trichloroethene	47.8	1.0	0.20	ug/L	50.0	<1.0	95.6	80-120			
Vinyl chloride	40.8	1.0	0.087	ug/L	50.0	<1.0	81.7	75-130			
Surrogate: 4-Bromofluorobenzene	58.8			ug/L	55.0		107	80-121			
Surrogate: Dibromofluoromethane	53.0			ug/L	55.0		96.4	79.9-121			
Surrogate: Toluene-d8	54.8			ug/L	55.0		99.6	80-120			

Matrix Spike Dup (B911810-MSD1)	Source: 0903969-01				Prepared & Analyzed: 09/18/09						
1,1,2,2-Tetrachloroethane	51.6	1.0	0.13	ug/L	50.0	<1.0	103	76.8-125	0.917	20	
1,1-Dichloroethane	45.8	1.0	0.11	ug/L	50.0	<1.0	91.5	80-125	1.79	20	
1,1-Dichloroethene	44.4	1.0	0.12	ug/L	50.0	<1.0	88.8	80-125	3.85	20	
1,3,5-Trimethylbenzene	51.8	1.0	0.18	ug/L	50.0	<1.0	104	75-125	0.985	20	
1,4-Dichlorobenzene	51.5	1.0	0.17	ug/L	50.0	<1.0	103	75-125	0.477	20	
2-Chlorotoluene	50.1	1.0	0.17	ug/L	50.0	<1.0	100	75-125	3.21	20	
Benzene	48.6	1.0	0.093	ug/L	50.0	<1.0	97.2	80-120	5.08	20	
Bromoform	52.5	5.0	0.50	ug/L	50.0	<5.0	105	80-120	0.0663	20	
Chlorobenzene	50.3	1.0	0.15	ug/L	50.0	<1.0	101	80-120	0.494	20	
Chloroform	46.2	1.0	0.19	ug/L	50.0	<1.0	92.5	79.8-125	3.08	20	
Ethylbenzene	50.2	1.0	0.21	ug/L	50.0	<1.0	100	80-120	1.21	20	
n-Butylbenzene	50.8	2.5	0.32	ug/L	50.0	<2.5	102	75-130	4.50	20	
n-Propylbenzene	51.6	1.0	0.13	ug/L	50.0	<1.0	103	75-125	1.83	20	
Toluene	50.8	1.0	0.21	ug/L	50.0	<1.0	102	80-120	4.93	20	
Trichloroethene	48.4	1.0	0.20	ug/L	50.0	<1.0	96.8	80-120	1.34	20	
Vinyl chloride	42.2	1.0	0.087	ug/L	50.0	<1.0	84.4	75-130	3.27	20	
Surrogate: 4-Bromofluorobenzene	60.7			ug/L	55.0		110	80-121			
Surrogate: Dibromofluoromethane	54.6			ug/L	55.0		99.2	79.9-121			
Surrogate: Toluene-d8	56.8			ug/L	55.0		103	80-120			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904018 Date Reported: 09/25/09
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Notes and Definitions

- M2 Matrix spike recovery was low, the associated blank spike recovery was acceptable.
- J Parameter was present between the MDL and RL and should be considered an estimated value
- H3b The trip-blank sample was received and analyzed past holding time.
- < Less than value listed
- dry Sample results reported on a dry weight basis
- NA Not applicable. The %RPD is not calculated from values less than the reporting limit.
- MDL Method Detection Limit
- RL Reporting Limit
- RPD Relative Percent Difference
- LCS Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
- MS Matrix Spike = Laboratory Fortified Matrix (LFM)

LEGEND

Technical Services, Inc.

www.legend-group.com

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

BARR
4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

01/10/18

Chain of Custody

Project Number: 2319-BOS.07 SIR1 300

Project Name: UMA SSI/R1

Sample Origination State: IL (use two letter postal state abbreviation)

COC Number: **NO 29017**

COC	of	Number of Containers/Preservative		Collection Date (mm/dd/yyyy)	Collection Time (hh:mm)	Depth Unit (m./ft. or in.)	Start Depth	Stop Depth	Matrix	Type	On Ice?	Date	Time	Date	Time
		Water	Soil												
01	1	1	1	9-10-09	0910	-	-	-	X	Soil	N	9-10-09	07:30	9-11-09	10:40
02	1	1	1	9-10-09	0900	-	-	-	X	Soil	N	9-10-09	07:30	9-11-09	10:40
03	2	1	1	9-10-09	1145	2 ft	1	2	X	Soil	N	9-10-09	11:45	9-11-09	10:40
04	2	3	3	9-10-09	1300	2 ft	1	2	X	Soil	N	9-10-09	13:00	9-11-09	10:40
05	4	1	1	9-10-09	1200	-	-	-	X	Soil	N	9-10-09	12:00	9-11-09	10:40
06	2	1	1	9-10-09	1500	-	-	-	X	Soil	N	9-10-09	15:00	9-11-09	10:40
07	3	1	1	9-10-09	1630	3 ft	1	3	X	Soil	N	9-10-09	16:30	9-11-09	10:40
08	5	3	1	9-10-09	1700	-	-	-	X	Soil	N	9-10-09	17:00	9-11-09	10:40
09	1	1	1							Soil	N				
10	1	1	1							Soil	N				

Common Parameter/Container - Preservation Key

- #1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
- #2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicide/Pesticide/PCBs
- #3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
- #4 - Nutrients = COD, TOC, Phosphorus, Ammonia Nitrogen, TKN

Relinquished By: Bill Penick

Relinquished By: Bill Penick

Received by: Bill Penick

Received by: Bill Penick

Relinquished By: _____ Date: _____ Time: _____
 Received by: _____ Date: _____ Time: _____
 Samples Shipped Via: Air Freight Federal Express Sampler Other: _____
 Air Bill Number: _____

Distribution: White-Original, Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator
 @ WASHBY SCALE RK 5.6°

Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV	Minnesota SRV	Minnesota Tier II Industrial SRV
Metals										
Antimony	7440-36-0	Soil/Solid	6010B	0.0055	0.50	mg/kg	---	2.7	12	100
Arsenic	7440-38-2	Soil/Solid	6010B	0.10	0.50	mg/kg	---	15.1	9	20
Beryllium	7440-41-7	Soil/Solid	6010B	0.011	0.25	mg/kg	---	1.4	55	230
Cadmium	7440-43-9	Soil/Solid	6010B	0.025	0.25	mg/kg	---	4.4	25	200
Chromium	7440-47-3	Soil/Solid	6010B	0.012	0.50	mg/kg	---	1000000 (S)	44000 (S)	100000 (S)
Copper	7440-50-8	Soil/Solid	6010B	0.070	1.0	mg/kg	---	400	100	9000
Lead	7439-92-1	Soil/Solid	6010B	0.034	1.0	mg/kg	---	525	300	700
Nickel	7440-02-0	Soil/Solid	6010B	0.014	0.25	mg/kg	---	88	550	2500
Selenium	7782-49-2	Soil/Solid	6010B	0.11	1.0	mg/kg	---	1.5	150	1300
Silver	7440-22-4	Soil/Solid	6010B	0.0090	0.25	mg/kg	---	3.9	160	1300
Thallium	7440-28-0	Soil/Solid	6010B	0.13	2.0	mg/kg	---	---	3	21
Zinc	7440-66-6	Soil/Solid	6010B	0.22	1.0	mg/kg	---	1500	8700	73000
Metals										
Antimony	7440-36-0	Water/Liquid	6020	0.046	0.500	ug/L	6	---	---	---
Arsenic	7440-38-2	Water/Liquid	6010B	2	10.000	ug/L	---	---	---	---
Beryllium	7440-41-7	Water/Liquid	6020	0.027	0.5000	ug/L	0.08	---	---	---
Cadmium	7440-43-9	Water/Liquid	6010B	0.099	1.0000	ug/L	4	---	---	---
Chromium	7440-47-3	Water/Liquid	6010B	0.24	10.000	ug/L	100 (5)	---	---	---
Copper	7440-50-8	Water/Liquid	6010B	1.4	20.000	ug/L	---	---	---	---
Lead	7439-92-1	Water/Liquid	6010B	0.68	3.0000	ug/L	---	---	---	---
Nickel	7440-02-0	Water/Liquid	6010B	0.28	5.0000	ug/L	100	---	---	---
Selenium	7782-49-2	Water/Liquid	6010B	2.2	20.000	ug/L	30	---	---	---
Silver	7440-22-4	Water/Liquid	6010B	0.18	5.0000	ug/L	30	---	---	---
Thallium	7440-28-0	Water/Liquid	6020	0.0081	0.500	ug/L	0.6	---	---	---
Zinc	7440-66-6	Water/Liquid	6010B	4.4	20.000	ug/L	2000	---	---	---
Mercury										
Mercury	7439-97-6	Soil/Solid	7471A	0.0031	0.10	mg/kg	---	1.6 C	0.5	1.5
Mercury	7439-97-6	Water/Liquid	7470A	0.00031	0.00020	mg/L	---	---	---	---
Nitrate/Nitrite Nitrogen as N (Braun)										
N+N Nitrogen as N	NA	Water/Liquid	SM4500-NO3-F	0.007	0.02	mg/L	10 (3)	---	---	---
Total Kjeldahl Nitrogen (Braun)										
TKN as N	NA	Water/Liquid	SM4500-NH3-C	0.17	0.5	mg/L	---	---	---	---
Perchlorate (TA)										
Perchlorate (TA)	NA	Water/Liquid	314	---	4	ug/L	---	---	---	---
Nitrocellulose (TA)										
Nitrocellulose (TA)	NA	Soil/Solid	353.2Mod	0.78	0.5	mg/kg	---	---	---	---
Nitrocellulose (TA)										
Nitrocellulose (TA)	NA	Water/Liquid	353.2Mod	0.124	0.5	mg/L	---	---	---	---
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	---	---	56	125
4,4'-DDE	72-55-9	Soil/Solid	8081A	0.0014	0.040	mg/kg	---	---	40	80
4,4'-DDT	50-29-3	Soil/Solid	8081A	0.0020	0.040	mg/kg	---	---	15	88
<i>p</i> -Chlordane	5103-71-9	Soil/Solid	8081A	0.0015	0.040	mg/kg	---	---	---	---
Aldrin	309-00-2	Soil/Solid	8081A	0.0012	0.040	mg/kg	---	---	1	2
alpha-BHC	319-84-6	Soil/Solid	8081A	0.0011	0.040	mg/kg	---	---	2	3.5
beta-BHC	319-85-7	Soil/Solid	8081A	0.0015	0.040	mg/kg	---	---	7	15
delta-BHC	319-88-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	---	---	---	---
Dieldrin	60-57-1	Soil/Solid	8081A	0.0014	0.040	mg/kg	---	---	0.8	2
Endosulfan I	959-98-8	Soil/Solid	8081A	0.0013	0.040	mg/kg	---	---	---	---
Endosulfan II	891-86-1	Soil/Solid	8081A	0.0016	0.040	mg/kg	---	---	---	---
Endosulfan sulfate	1031-07-6	Soil/Solid	8081A	0.0016	0.040	mg/kg	---	---	---	---
Endrin	72-20-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	---	---	8	56
Endrin aldehyde	7421-93-4	Soil/Solid	8081A	0.0041	0.040	mg/kg	---	---	---	---
Endrin ketone	53494-70-5	Soil/Solid	8081A	0.0016	0.040	mg/kg	---	---	---	---
gamma-BHC (Lindane)	58-89-9	Soil/Solid	8081A	0.0012	0.040	mg/kg	---	---	9	15
gamma-Chlordane	5596-34-7	Soil/Solid	8081A	0.0017	0.040	mg/kg	---	---	---	---
Heptachlor	76-44-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	---	---	2	3.5
Heptachlor epoxide	1024-57-3	Soil/Solid	8081A	0.0012	0.040	mg/kg	---	---	0.4	3
Methoxychlor	72-43-5	Soil/Solid	8081A	0.0019	0.040	mg/kg	---	---	11	50
Toxaphene	8001-35-2	Soil/Solid	8081A	0.015	0.080	mg/kg	---	---	13	28
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Water/Liquid	8081A	0.028	0.40	ug/L	1	---	---	---
4,4'-DDE	72-55-9	Water/Liquid	8081A	0.037	0.40	ug/L	---	---	---	---
4,4'-DDT	50-29-3	Water/Liquid	8081A	0.031	0.40	ug/L	1	---	---	---
<i>p</i> -Chlordane	5103-71-9	Water/Liquid	8081A	0.030	0.40	ug/L	---	---	---	---
Aldrin	309-00-2	Water/Liquid	8081A	0.036	0.40	ug/L	---	---	---	---
alpha-BHC	319-84-6	Water/Liquid	8081A	0.028	0.40	ug/L	---	---	---	---
beta-BHC	319-85-7	Water/Liquid	8081A	0.026	0.40	ug/L	---	---	---	---
delta-BHC	319-88-8	Water/Liquid	8081A	0.023	0.40	ug/L	---	---	---	---
Dieldrin	60-57-1	Water/Liquid	8081A	0.031	0.40	ug/L	0.006 (4)	---	---	---
Endosulfan I	959-98-8	Water/Liquid	8081A	0.032	0.40	ug/L	---	---	---	---
Endosulfan II	891-86-1	Water/Liquid	8081A	0.035	0.40	ug/L	---	---	---	---

P:\Mpls\23 MN\192319B05 UMore park environmental\WorkFiles\Phase II Investigation\WO#1 and #6\Phase II Work Plan\SSI\RI Work Plan\SAP\2.0\Part 2-QAPP\Tables\Table 1 of 7

Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MNH Health Risk Limits	Minnesota Tier SLV	Minnesota SRV	Minnesota Tier II Industrial SRV
Endosulfan sulfate	1031-07-8	Water/Liquid	8081A	0.034	0.40	ug/L	--	--	--	--
Erdrin	72-20-8	Water/Liquid	8081A	0.029	0.40	ug/L	--	--	--	--
Erdrin aldehyde	741-93-4	Water/Liquid	8081A	0.044	0.40	ug/L	--	--	--	--
Erdrin ketone	53494-70-5	Water/Liquid	8081A	0.031	0.40	ug/L	--	--	--	--
gamma-BHC (Lindane)	59-89-9	Water/Liquid	8081A	0.024	0.40	ug/L	--	--	--	--
gamma-Chlordane	5566-34-7	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Heptachlor	76-44-8	Water/Liquid	8081A	0.028	0.40	ug/L	0.08	--	--	--
Heptachlor epoxide	1024-57-3	Water/Liquid	8081A	0.030	0.40	ug/L	0.04	--	--	--
Methoxychlor	72-43-5	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Toxaphene	8001-35-2	Water/Liquid	8081A	0.069	1.00	ug/L	0.3	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Propachlor	1918-16-7	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Ethalfuratin	55283-68-6	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Desopropylatrazine	1007-28-9	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Trifluralin	1582-09-8	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Desethylatrazine	6190-65-4	Soil/Solid	8270C	0.011	0.04	mg/kg	--	--	--	--
Phorate	298-02-2	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Prometon	1610-18-0	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Simazine	122-34-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Atrazine	1912-24-9	Soil/Solid	8270C	0.0100	0.04	mg/kg	--	--	--	--
Propazine	139-40-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Terbufos	13071-79-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	0.6	3.5
Fonofos	644-22-9	Soil/Solid	8270C	0.0040	0.04	mg/kg	--	--	--	--
Triallate	2303-17-5	Soil/Solid	8270C	0.0050	0.04	mg/kg	--	--	--	--
Metribuzin	21087-64-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Dimethenamid	87674-69-8	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Acetochlor	34265-82-1	Soil/Solid	8270C	0.010	0.04	mg/kg	--	--	--	--
Alachlor	15972-80-8	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Cyanazine	21725-46-2	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Metolachlor	51218-45-2	Soil/Solid	8270C	0.0030	0.04	mg/kg	--	--	435	3300
Chlorpyrifos	2921-88-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Pendimethalin	40487-42-1	Soil/Solid	8270C	0.016	0.04	mg/kg	--	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Water/Liquid	8270C	0.22	0.50	ug/L	200	--	--	--
Propachlor	1918-16-7	Water/Liquid	8270C	0.14	0.50	ug/L	--	--	--	--
Ethalfuratin	55283-68-6	Water/Liquid	8270C	0.47	0.50	ug/L	300 (1)	--	--	--
Desopropylatrazine	1007-28-9	Water/Liquid	8270C	0.26	0.50	ug/L	--	--	--	--
Trifluralin	1582-09-8	Water/Liquid	8270C	0.21	0.50	ug/L	5 (1)	--	--	--
Desethylatrazine	6190-65-4	Water/Liquid	8270C	0.29	0.50	ug/L	--	--	--	--
Phorate	298-02-2	Water/Liquid	8270C	0.59	1.00	ug/L	1 (1)	--	--	--
Prometon	1610-18-0	Water/Liquid	8270C	0.29	0.50	ug/L	100	--	--	--
Simazine	122-34-9	Water/Liquid	8270C	0.32	0.50	ug/L	4 (3)	--	--	--
Atrazine	1912-24-9	Water/Liquid	8270C	0.24	0.50	ug/L	3 (3)	--	--	--
Propazine	139-40-2	Water/Liquid	8270C	0.21	0.50	ug/L	10 (1)	--	--	--
Terbufos	13071-79-9	Water/Liquid	8270C	0.54	1.00	ug/L	0.2 (1)	--	--	--
Fonofos	644-22-9	Water/Liquid	8270C	0.30	0.50	ug/L	10 (1)	--	--	--
Triallate	2303-17-5	Water/Liquid	8270C	0.34	0.50	ug/L	9 (1)	--	--	--
Metribuzin	21087-64-9	Water/Liquid	8270C	0.35	0.50	ug/L	200	--	--	--
Dimethenamid	87674-69-8	Water/Liquid	8270C	0.24	0.50	ug/L	40 (1)	--	--	--
Acetochlor	34265-82-1	Water/Liquid	8270C	0.25	0.50	ug/L	9 (4)	--	--	--
Alachlor	15972-80-8	Water/Liquid	8270C	0.19	0.50	ug/L	5 (4)	--	--	--
Cyanazine	21725-46-2	Water/Liquid	8270C	0.48	0.50	ug/L	1	--	--	--
Metolachlor	51218-45-2	Water/Liquid	8270C	0.28	0.50	ug/L	300 (4)	--	--	--
Chlorpyrifos	2921-88-2	Water/Liquid	8270C	0.34	0.50	ug/L	20 (1)	--	--	--
Pendimethalin	40487-42-1	Water/Liquid	8270C	0.25	0.50	ug/L	--	--	--	--
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
MCPA	94-74-6	Soil/Solid	8270C	0.014	0.50	mg/kg	--	16	--	110
2,4-D	94-75-7	Soil/Solid	8270C	0.012	0.50	mg/kg	--	285	--	2200
Trichlopyr	55336-06-3	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
Pentachlorophenol	87-86-6	Soil/Solid	8270C	0.007	0.50	mg/kg	--	80	--	120
2,4,5-T.P.	93-72-1	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	--	--
2,4,5-T	93-76-5	Soil/Solid	8270C	0.009	0.50	mg/kg	--	290	--	2150
Dinoseb	88-85-7	Soil/Solid	8270C	0.005	0.50	mg/kg	--	--	--	--
2,4-D.B.	94-82-6	Soil/Solid	8270C	0.011	0.50	mg/kg	--	226	--	1750
Bentazone	25057-89-0	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	--	--
Picloram	1918-02-1	Soil/Solid	8270C	0.011	0.50	mg/kg	--	2000	--	15000
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Water/Liquid	8270C	0.38	0.50	ug/L	200	--	--	--

Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Level	Minnesota Tier 1 SLV	Minnesota SRV	Minnesota Tier 2 Industrial SRV
MCPA	94-74-6	Water/Liquid	8270C	0.29	0.50	ug/L	--	--	--	--
2,4-D	94-75-7	Water/Liquid	8270C	0.26	0.50	ug/L	70	--	--	--
Trichlorpyr	55336-06-3	Water/Liquid	8270C	0.41	0.50	ug/L	300 (1)	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.39	0.50	ug/L	1 (3)	--	--	--
2,4,5-T-P	93-72-1	Water/Liquid	8270C	0.28	0.50	ug/L	50 (3)	--	--	--
2,4,5-T	93-76-5	Water/Liquid	8270C	0.31	0.50	ug/L	--	--	--	--
Dinoseb	68-65-7	Water/Liquid	8270C	0.34	0.50	ug/L	7 (1)	--	--	--
2,4-D-B	94-82-6	Water/Liquid	8270C	0.15	0.50	ug/L	60 (1)	--	--	--
Bentazone	25057-89-0	Water/Liquid	8270C	0.22	0.50	ug/L	200 (1)	--	--	--
Picloram	1918-02-1	Water/Liquid	8270C	0.25	0.50	ug/L	500	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Soil/Solid	8082	0.017	0.20	mg/kg	--	--	--	--
Aroclor 1221	11104-26-2	Soil/Solid	8082	0.039	0.20	mg/kg	--	--	--	--
Aroclor 1232	11141-16-5	Soil/Solid	8082	0.019	0.20	mg/kg	--	--	--	--
Aroclor 1242	53469-21-9	Soil/Solid	8082	0.016	0.20	mg/kg	--	--	--	--
Aroclor 1248	12672-29-6	Soil/Solid	8082	0.0078	0.20	mg/kg	--	--	--	--
Aroclor 1254	11097-69-1	Soil/Solid	8082	0.0071	0.20	mg/kg	--	--	--	--
Aroclor 1260	11096-82-5	Soil/Solid	8082	0.015	0.20	mg/kg	--	--	--	--
PCBs - Water										
Aroclor 1016	12674-11-2	Water/Liquid	8082	0.41	2.0	ug/L	--	--	--	--
Aroclor 1221	11104-26-2	Water/Liquid	8082	0.36	2.0	ug/L	--	--	--	--
Aroclor 1232	11141-16-5	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1242	53469-21-9	Water/Liquid	8082	0.58	2.0	ug/L	--	--	--	--
Aroclor 1248	12672-29-6	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1254	11097-69-1	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1260	11096-82-5	Water/Liquid	8082	0.32	2.0	ug/L	--	--	--	--
VOCs - Soil/Solid										
1,1,1,2-Tetrachloroethane	800-20-6	Soil/Solid	8260B	0.019	0.25	mg/kg	--	1.4	31	51
1,1,1-Trichloroethane	71-55-6	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	3.5	140	472
1,1,2,2-Tetrachloroethane	79-34-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	0.005	3.5	6.5
1,1,2-Trichloroethane	79-00-5	Soil/Solid	8260B	0.022	0.25	mg/kg	--	0.010	9	14
1,1,2-Trichloro-1,2,2,2-tetrafluoroethane	76-13-1	Soil/Solid	8260B	0.052	0.25	mg/kg	--	2580	3745	5430
1,1-Dichloroethane	78-34-3	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.18	34	65
1,1-Dichloroethene	78-35-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.025	20	60
1,1-Dichloropropene	563-58-6	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Soil/Solid	8260B	0.063	0.50	mg/kg	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.35	--	--
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8260B	0.052	0.50	mg/kg	--	0.31	200	965
1,2,4-Trimethylbenzene	95-63-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	8	25
1,2-Dibromo-3-chloropropane	96-12-6	Soil/Solid	8260B	0.079	0.50	mg/kg	--	0.001	--	--
1,2-Dibromochloroethane (EDB)	106-93-4	Soil/Solid	8260B	0.0656	0.25	mg/kg	--	0.00001	0.3	0.5
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8260B	0.0055	0.25	mg/kg	--	8.1	26	75
1,2-Dichloroethane	107-06-2	Soil/Solid	8260B	0.030	0.25	mg/kg	--	0.010	4	6
1,2-Dichloropropane	78-87-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.011	4	6
1,3,5-Trimethylbenzene	108-67-6	Soil/Solid	8260B	0.0077	0.25	mg/kg	--	--	3	10
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8260B	0.015	0.25	mg/kg	--	4.2	26	200
1,3-Dichloropropane	142-28-9	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.13	30	50
2,2-Dichloropropane	594-20-7	Soil/Solid	8260B	0.034	0.50	mg/kg	--	--	--	--
2-Butanone	78-93-3	Soil/Solid	8260B	0.069	0.50	mg/kg	--	--	5600	19000
2-Chlorotoluene	95-49-8	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	436	436
4-Chlorotoluene	106-43-4	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	--	--
Acetone	67-64-1	Soil/Solid	8260B	0.16	2.0	mg/kg	--	0.7	340	1000
Allyl chloride	107-05-1	Soil/Solid	8260B	0.016	0.50	mg/kg	--	0.032	--	--
Benzene	71-43-2	Soil/Solid	8260B	0.0070	0.25	mg/kg	--	0.034	6	10
Bromobenzene	108-86-1	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
Bromochloromethane	74-97-5	Soil/Solid	8260B	0.021	0.25	mg/kg	--	0.15	--	--
Bromodichloromethane	75-27-4	Soil/Solid	8260B	0.020	0.25	mg/kg	--	0.013	10	17
Bromoform	75-25-2	Soil/Solid	8260B	0.015	0.50	mg/kg	--	0.14	370	650
Bromomethane	74-83-9	Soil/Solid	8260B	0.012	0.50	mg/kg	--	0.5	0.7	2
Carbon tetrachloride	56-23-5	Soil/Solid	8260B	0.018	0.25	mg/kg	--	0.023	0.3	0.9
Chlorobenzene	108-90-7	Soil/Solid	8260B	0.011	0.25	mg/kg	--	1.1	11	32
Chloroethane	75-00-3	Soil/Solid	8260B	0.045	0.25	mg/kg	--	--	1000	3000
Chloroform	67-66-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.17	2.5	4
Chloromethane	74-87-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.008	6	23
cis-1,2-Dichloroethene	156-58-2	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.14	8	22
cis-1,3-Dichloropropene	10061-01-5	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	0.005 M	--	--
Dibromochloromethane	124-48-1	Soil/Solid	8260B	0.014	0.25	mg/kg	--	0.03	12	20
Dibromomethane	74-95-3	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	260	1850
Dichlorodifluoromethane	75-71-8	Soil/Solid	8260B	0.035	0.50	mg/kg	--	38	16	50
Dichlorofluoromethane	75-43-4	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
Ethyl ether	60-29-7	Soil/Solid	8260B	0.017	0.50	mg/kg	--	1.2	--	--
Ethylbenzene	100-41-4	Soil/Solid	8260B	0.011	0.25	mg/kg	--	4.7	200	200
Hexachlorobutadiene	87-68-3	Soil/Solid	8260B	0.11	1.0	mg/kg	--	25	6	37
Isopropylbenzene	98-82-8	Soil/Solid	8260B	0.019	0.25	mg/kg	--	18	30	87

Table 1
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Quality Assurance Project Plan, SS/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV	Minnesota SRV	Minnesota Tier Industrial SRV
m,p-Xylene	108-38-3/ 106-42-3	Soil/Solid	8260B	0.024	0.50	mg/kg	—	45 M	45 M	130 M
Methyl isobutyl ketone	108-10-1	Soil/Solid	8260B	0.031	0.50	mg/kg	—	0.42	1700	9000
Methyl tert-butyl ether	1634-04-4	Soil/Solid	8260B	0.018	0.25	mg/kg	—	0.027	—	—
Methylene chloride	75-09-2	Soil/Solid	8260B	0.043	1.0	mg/kg	—	0.068	97	158
Naphthalene	91-20-3	Soil/Solid	8260B	0.060	0.50	mg/kg	—	7.5	10	28
n-Butylbenzene	104-51-8	Soil/Solid	8260B	0.012	0.25	mg/kg	—	—	30	92
n-Propylbenzene	103-65-1	Soil/Solid	8260B	0.013	0.25	mg/kg	—	—	30	93
o-Xylene	95-47-6	Soil/Solid	8260B	0.015	0.25	mg/kg	—	—	—	—
p-Isopropyltoluene	95-87-6	Soil/Solid	8260B	0.014	0.25	mg/kg	—	45 M	45 M	130 M
sec-Butylbenzene	135-96-8	Soil/Solid	8260B	0.012	0.25	mg/kg	—	—	25	70
Styrene	100-42-5	Soil/Solid	8260B	0.012	0.25	mg/kg	—	1.9	210	600
tert-Butylbenzene	98-06-6	Soil/Solid	8260B	0.0073	0.25	mg/kg	—	—	30	90
Tetrachloroethene	127-18-4	Soil/Solid	8260B	0.016	0.25	mg/kg	—	0.068	72	131
Tetrahydrofuran	109-99-9	Soil/Solid	8260B	0.068	2.0	mg/kg	—	0.16	—	—
Toluene	108-88-3	Soil/Solid	8260B	0.0063	0.25	mg/kg	—	6.4	107	305
trans-1,2-Dichloroethene	156-60-5	Soil/Solid	8260B	0.016	0.25	mg/kg	—	—	17	33
trans-1,3-Dichloropropene	10081-02-6	Soil/Solid	8260B	0.013	0.25	mg/kg	—	0.005 M	—	—
Trichloroethene	79-01-6	Soil/Solid	8260B	0.013	0.25	mg/kg	—	0.14	29	46
Trichlorofluoromethane	75-69-4	Soil/Solid	8260B	0.035	0.25	mg/kg	—	22	67	195
Vinyl chloride	75-01-4	Soil/Solid	8260B	0.031	0.25	mg/kg	—	0.001	0.8	2.2
VOCS - Water/Liquid										
1,1,1,2-Tetrachloroethane	630-20-6	Water/Liquid	8260B	0.083	1.0	ug/L	70	—	—	—
1,1,1-Trichloroethane	71-55-8	Water/Liquid	8260B	0.058	1.0	ug/L	9000 (4)	—	—	—
1,1,2,2-Tetrachloroethane	79-34-5	Water/Liquid	8260B	0.084	1.0	ug/L	2	—	—	—
1,1,2-Trichloroethane	79-00-5	Water/Liquid	8260B	0.15	1.0	ug/L	3	—	—	—
1,1,2-Trichlorotrifluoroethane	78-13-1	Water/Liquid	8260B	0.10	1.0	ug/L	200000	—	—	—
1,1-Dichloroethane	75-34-3	Water/Liquid	8260B	0.094	1.0	ug/L	100 (7)	—	—	—
1,1-Dichloroethene	75-35-4	Water/Liquid	8260B	0.10	1.0	ug/L	200	—	—	—
1,1-Dichloropropane	583-59-8	Water/Liquid	8260B	0.099	1.0	ug/L	—	—	—	—
1,2,3-Trichlorobenzene	87-51-6	Water/Liquid	8260B	0.40	5.0	ug/L	—	—	—	—
1,2,3-Trichloropropane	95-16-4	Water/Liquid	8260B	0.13	2.5	ug/L	40	—	—	—
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8260B	0.52	5.0	ug/L	—	—	—	—
1,2,4-Trimethylbenzene	95-63-6	Water/Liquid	8260B	0.052	1.0	ug/L	—	—	—	—
1,2-Dibromo-3-chloropropane	96-12-8	Water/Liquid	8260B	1.2	5.0	ug/L	—	—	—	—
1,2-Dibromoethane (EDB)	106-93-4	Water/Liquid	8260B	0.10	2.5	ug/L	0.004	—	—	—
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8260B	0.12	1.0	ug/L	900	—	—	—
1,2-Dichloroethane	107-06-2	Water/Liquid	8260B	0.084	1.0	ug/L	4	—	—	—
1,2-Dichloropropane	78-67-5	Water/Liquid	8260B	0.13	1.0	ug/L	5	—	—	—
1,3,5-Trimethylbenzene	108-67-8	Water/Liquid	8260B	0.066	1.0	ug/L	100 (4) (6)	—	—	—
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8260B	0.094	1.0	ug/L	—	—	—	—
1,3-Dichloropropane	142-28-9	Water/Liquid	8260B	0.074	1.0	ug/L	—	—	—	—
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8260B	0.053	1.0	ug/L	10	—	—	—
2,2-Dichloropropane	594-20-7	Water/Liquid	8260B	0.23	5.0	ug/L	—	—	—	—
2-Butanone	78-93-3	Water/Liquid	8260B	0.58	20	ug/L	4000	—	—	—
2-Chlorotoluene	95-49-8	Water/Liquid	8260B	0.077	1.0	ug/L	—	—	—	—
4-Chlorotoluene	106-43-4	Water/Liquid	8260B	0.059	1.0	ug/L	—	—	—	—
Acetone	67-64-1	Water/Liquid	8260B	0.89	20	ug/L	700	—	—	—
Allyl chloride	107-05-1	Water/Liquid	8260B	0.28	5.0	ug/L	30	—	—	—
Benzene	71-43-2	Water/Liquid	8260B	0.047	1.0	ug/L	2 (4)	—	—	—
Bromobenzene	108-96-1	Water/Liquid	8260B	0.084	1.0	ug/L	—	—	—	—
Bromochloromethane	74-87-5	Water/Liquid	8260B	0.075	1.0	ug/L	—	—	—	—
Bromodichloromethane	75-27-4	Water/Liquid	8260B	0.13	1.0	ug/L	8	—	—	—
Bromoform	75-25-2	Water/Liquid	8260B	0.074	5.0	ug/L	40	—	—	—
Bromomethane	74-83-9	Water/Liquid	8260B	0.26	5.0	ug/L	10	—	—	—
Carbon tetrachloride	56-23-5	Water/Liquid	8260B	0.074	1.0	ug/L	3	—	—	—
Chlorobenzene	108-90-7	Water/Liquid	8260B	0.025	1.0	ug/L	100	—	—	—
Chloroethane	75-00-3	Water/Liquid	8260B	0.26	2.5	ug/L	—	—	—	—
Chloroform	67-56-3	Water/Liquid	8260B	0.056	1.0	ug/L	30 (4) (6)	—	—	—
Chloromethane	74-87-3	Water/Liquid	8260B	0.059	2.5	ug/L	—	—	—	—
cis-1,2-Dichloroethene	156-59-2	Water/Liquid	8260B	0.12	1.0	ug/L	50 (4)	—	—	—
cis-1,3-Dichloropropene	10081-01-5	Water/Liquid	8260B	0.11	1.0	ug/L	—	—	—	—
Dibromochloromethane	124-48-1	Water/Liquid	8260B	0.084	2.5	ug/L	10	—	—	—
Dibromomethane	74-95-3	Water/Liquid	8260B	0.14	2.5	ug/L	—	—	—	—
Dichlorodifluoromethane	75-71-8	Water/Liquid	8260B	0.39	5.0	ug/L	700 (4)	—	—	—
Dichlorofluoromethane	75-43-4	Water/Liquid	8260B	0.070	1.0	ug/L	—	—	—	—
Ethyl ether	60-29-7	Water/Liquid	8260B	0.10	5.0	ug/L	1000	—	—	—
Ethylbenzene	100-41-4	Water/Liquid	8260B	0.056	1.0	ug/L	700	—	—	—
Hexachlorobutadiene	87-68-3	Water/Liquid	8260B	0.58	10	ug/L	1	—	—	—
Isopropylbenzene	98-82-8	Water/Liquid	8260B	0.068	1.0	ug/L	300	—	—	—
m,p-Xylene	108-38-3	106-42-3	Water/Liquid	8260B	0.14	2.0	ug/L	10000 M	—	—
Methyl isobutyl ketone	108-10-1	Water/Liquid	8260B	0.13	5.0	ug/L	300	—	—	—
Methyl tert-butyl ether	1634-04-4	Water/Liquid	8260B	0.079	1.0	ug/L	—	—	—	—

Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier 1 SLV ^a	Minnesota Tier 5 ^b	Minnesota Tier II Industrial SRV
Methylene chloride	75-09-2	Water/Liquid	8260B	0.29	5.0	ug/L	5 (3)	---	---	---
Naphthalene	91-20-3	Water/Liquid	8260B	0.38	5.0	ug/L	300	---	---	---
n-Butylbenzene	104-81-6	Water/Liquid	8260B	0.094	2.5	ug/L	---	---	---	---
n-Propylbenzene	103-65-1	Water/Liquid	8260B	0.079	1.0	ug/L	---	---	---	---
o-Xylene	95-47-5	Water/Liquid	8260B	0.074	1.0	ug/L	10000 M	---	---	---
p-Isopropyltoluene	95-87-6	Water/Liquid	8260B	0.087	2.5	ug/L	---	---	---	---
sec-Butylbenzene	135-98-8	Water/Liquid	8260B	0.030	1.0	ug/L	---	---	---	---
Styrene	100-42-5	Water/Liquid	8260B	0.072	1.0	ug/L	---	---	---	---
tert-Butylbenzene	98-06-6	Water/Liquid	8260B	0.046	1.0	ug/L	---	---	---	---
Tetrachloroethene	127-18-4	Water/Liquid	8260B	0.10	1.0	ug/L	5 (3)	---	---	---
Tetrahydrofuran	109-99-9	Water/Liquid	8260B	0.76	20	ug/L	---	---	---	---
Toluene	108-88-3	Water/Liquid	8260B	0.036	1.0	ug/L	1000	---	---	---
trans-1,2-Dichloroethene	156-60-5	Water/Liquid	8260B	0.14	1.0	ug/L	100	---	---	---
trans-1,3-Dichloropropene	10081-02-6	Water/Liquid	8260B	0.082	1.0	ug/L	---	---	---	---
Trichloroethene	79-01-5	Water/Liquid	8260B	0.067	1.0	ug/L	5 (3)	---	---	---
Trichlorofluoromethane	75-69-4	Water/Liquid	8260B	0.17	1.0	ug/L	2000	---	---	---
Vinyl chloride	75-01-4	Water/Liquid	8260B	0.10	1.0	ug/L	0.2 (4)	---	---	---
Semi-Volatiles Organics										
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8270C	0.020	0.33	mg/kg	---	0.31	200	985
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8270C	0.012	0.33	mg/kg	---	8.1	26	75
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Soil/Solid	8270C	0.039	0.33	mg/kg	---	---	---	---
1,3-Dichlorobenzene	641-73-1	Soil/Solid	8270C	0.014	0.33	mg/kg	---	4.2	26	200
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8270C	0.013	0.33	mg/kg	---	0.13	30	60
2,3,4,6-Tetrachlorophenol	58-90-2	Soil/Solid	8270C	0.072	0.67	mg/kg	---	---	696	3700
2,4,5-Trichlorophenol	95-95-4	Soil/Solid	8270C	0.039	0.67	mg/kg	---	---	1920	10600
2,4,6-Trichlorophenol	68-06-2	Soil/Solid	8270C	0.081	0.67	mg/kg	---	0.21	595	1060
2,4-Dichlorophenol	120-83-2	Soil/Solid	8270C	0.046	0.67	mg/kg	---	0.076	48	230
2,4-Dimethylphenol	105-67-9	Soil/Solid	8270C	0.079	0.67	mg/kg	---	0.34	390	1925
2,4-Dinitrophenol	51-28-5	Soil/Solid	8270C	0.064	0.67	mg/kg	---	0.014	---	---
2,4-Dinitrotoluene	121-14-2	Soil/Solid	8270C	0.044	0.33	mg/kg	---	0.001	50	365
2,6-Dichlorophenol	87-65-0	Soil/Solid	8270C	0.042	0.67	mg/kg	---	---	---	---
2,6-Dinitrotoluene	606-20-2	Soil/Solid	8270C	0.040	0.33	mg/kg	---	0.001	25	175
2-Chloronaphthalene	91-58-7	Soil/Solid	8270C	0.018	0.33	mg/kg	---	---	---	---
2-Chlorophenol	95-57-8	Soil/Solid	8270C	0.029	0.67	mg/kg	---	0.26	---	---
2-Methylnaphthalene	91-57-6	Soil/Solid	8270C	0.021	0.33	mg/kg	---	---	100	369
2-Methylphenol	95-48-7	Soil/Solid	8270C	0.019	0.67	mg/kg	---	0.064	75	352
2-Nitroaniline	88-74-4	Soil/Solid	8270C	0.041	0.33	mg/kg	---	---	---	---
2-Nitrophenol	88-75-5	Soil/Solid	8270C	0.040	0.67	mg/kg	---	0.60	---	---
3,3'-Dichlorobenzidine	91-94-1	Soil/Solid	8270C	0.21	1.6	mg/kg	---	0.36	25	50
3-Nitroaniline	99-09-2	Soil/Solid	8270C	0.041	0.33	mg/kg	---	---	---	---
4,6-Dinitro-2-methylphenol	534-62-1	Soil/Solid	8270C	0.097	0.67	mg/kg	---	---	---	---
4-Bromophenyl phenyl ether	101-55-3	Soil/Solid	8270C	0.044	0.33	mg/kg	---	---	---	---
4-Chloro-3-methylphenol	59-50-7	Soil/Solid	8270C	0.075	0.67	mg/kg	---	---	---	---
4-Chloroaniline	106-47-8	Soil/Solid	8270C	0.022	0.67	mg/kg	---	---	---	---
4-Chlorophenyl phenyl ether	7005-72-3	Soil/Solid	8270C	0.024	0.33	mg/kg	---	---	---	---
4-Methylphenol	106-44-5	Soil/Solid	8270C	0.017	0.67	mg/kg	---	0.033	10	59
4-Nitroaniline	100-01-6	Soil/Solid	8270C	0.044	0.33	mg/kg	---	---	---	---
4-Nitrophenol	100-02-7	Soil/Solid	8270C	0.081	0.67	mg/kg	---	---	---	---
Acenaphthene	83-32-9	Soil/Solid	8270C	0.020	0.33	mg/kg	---	50	1200	5260
Acenaphthylene	208-96-8	Soil/Solid	8270C	0.031	0.33	mg/kg	---	---	---	---
Aniline	62-53-3	Soil/Solid	8270C	0.034	0.67	mg/kg	---	---	---	---
Anthracene	120-12-7	Soil/Solid	8270C	0.043	0.33	mg/kg	---	942	7880	45400
Benzenzidine	92-87-5	Soil/Solid	8270C	0.71	2.5	mg/kg	---	---	---	---
Benzo (a) anthracene	66-55-3	Soil/Solid	8270C	0.045	0.33	mg/kg	---	10.2 T	2 T	3 T
Benzo (a) pyrene	50-32-6	Soil/Solid	8270C	0.049	0.33	mg/kg	---	10.2 T	2 T	3 T
Benzo (b) fluoranthene	205-99-2	Soil/Solid	8270C	0.048	0.33	mg/kg	---	10.2 T	2 T	3 T
Benzo (g,h,i) perylene	191-24-2	Soil/Solid	8270C	0.050	0.33	mg/kg	---	---	---	---
Benzo (k) fluoranthene	207-08-9	Soil/Solid	8270C	0.053	0.33	mg/kg	---	10.2 T	2 T	3 T
Benzoic acid	65-85-0	Soil/Solid	8270C	0.036	0.33	mg/kg	---	30	50000	100000
Benzyl alcohol	100-51-6	Soil/Solid	8270C	0.11	0.67	mg/kg	---	---	8700	56000
Bis(2-chloroethoxy)methane	111-91-1	Soil/Solid	8270C	0.021	0.33	mg/kg	---	---	---	---
Bis(2-chloroethyl)ether	111-44-4	Soil/Solid	8270C	0.013	0.33	mg/kg	---	0.001	2.5	5
Bis(2-chloroisopropyl)ether	39638-32-9	Soil/Solid	8270C	0.017	0.33	mg/kg	---	---	---	---
Bis(2-ethoxy)phthalate	117-81-7	Soil/Solid	8270C	0.046	0.33	mg/kg	---	40	670	2100
Butyl benzyl phthalate	85-68-7	Soil/Solid	8270C	0.047	0.33	mg/kg	---	28	580	3700
Carbazole	86-74-8	Soil/Solid	8270C	0.044	0.33	mg/kg	---	---	700	1310
Chrysene	218-01-9	Soil/Solid	8270C	0.049	0.33	mg/kg	---	10.2 T	2 T	3 T
Dibenz (a,h) anthracene	53-70-3	Soil/Solid	8270C	0.053	0.33	mg/kg	---	10.2 T	2 T	3 T
Dibenzofuran	132-64-9	Soil/Solid	8270C	0.022	0.33	mg/kg	---	---	104	610

Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
Umore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV *	Minnesota SRV **	Minnesota Tier II Industrial SRV ***
Diethyl phthalate	84-66-2	Soil/Solid	8270C	0.045	0.33	mg/kg	---	18	---	---
Dimethyl phthalate	131-11-3	Soil/Solid	8270C	0.043	0.33	mg/kg	---	172	---	---
Di-n-butyl phthalate	84-74-2	Soil/Solid	8270C	0.054	0.33	mg/kg	---	23	2440	16300
Fluoranthene	117-54-0	Soil/Solid	8270C	0.056	0.33	mg/kg	---	---	520	3700
Fluorene	85-73-7	Soil/Solid	8270C	0.047	0.33	mg/kg	---	295	1090	5800
Hexachlorobenzene	118-74-1	Soil/Solid	8270C	0.011	0.33	mg/kg	---	47	850	4120
Hexachlorobutadiene	87-68-3	Soil/Solid	8270C	0.035	0.33	mg/kg	---	0.32	5	9
Hexachlorocyclopentadiene	77-47-4	Soil/Solid	8270C	0.030	0.33	mg/kg	---	25	6	37
Hexachloroethane	67-72-1	Soil/Solid	8270C	0.018	0.33	mg/kg	---	0.050	2	6
Indeno (1,2,3-cd) pyrene	193-39-5	Soil/Solid	8270C	0.042	0.33	mg/kg	---	10.2 T	2 T	3 T
Isophorone	78-59-1	Soil/Solid	8270C	0.018	0.33	mg/kg	---	0.16	---	---
Naphthalene	91-20-3	Soil/Solid	8270C	0.015	0.33	mg/kg	---	7.5	10	28
Nitrobenzene	98-95-3	Soil/Solid	8270C	0.014	0.33	mg/kg	---	---	---	---
N-Nitrosodimethylamine	62-75-9	Soil/Solid	8270C	0.028	0.33	mg/kg	---	0.82	---	---
N-Nitrosodi-n-propylamine	621-64-7	Soil/Solid	8270C	0.014	0.33	mg/kg	---	---	0.7	1.2
N-Nitrosodiphenylamine ***	86-30-6	Soil/Solid	8270C	0.045	0.33	mg/kg	---	0.88	1950	3720
Diphenylamine ***	122-39-4	Soil/Solid	8270C	---	---	---	---	---	---	---
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.081	0.67	mg/kg	---	0.034	80	120
Permethrin	85-01-8	Soil/Solid	8270C	0.026	0.33	mg/kg	---	---	---	---
Phenol	108-95-2	Soil/Solid	8270C	0.027	0.67	mg/kg	---	7.8	1500	20203
Pyrene	129-00-9	Soil/Solid	8270C	0.046	0.33	mg/kg	---	272	890	5800
2,4-Dinitrotoluene (DNT)	121-14-2	Soil/Solid	8270C	0.063	3.0	mg/kg	---	0.001	50	356
2,6-Dinitrotoluene (DNT)	608-20-2	Soil/Solid	8270C	0.13	3.0	mg/kg	---	0.001	25	175
Semi-Volatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8270C	0.26	10	ug/L	---	---	---	---
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8270C	0.21	10	ug/L	---	---	---	---
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Water/Liquid	8270C	0.20	10	ug/L	600	---	---	---
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8270C	0.21	10	ug/L	---	---	---	---
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8270C	0.18	10	ug/L	10	---	---	---
2,3,4,5-Tetrachlorophenol	58-90-2	Water/Liquid	8270C	1.0	10	ug/L	---	---	---	---
2,4,5-Trichlorophenol	95-95-4	Water/Liquid	8270C	0.85	10	ug/L	---	---	---	---
2,4,6-Trichlorophenol	88-06-2	Water/Liquid	8270C	0.89	10	ug/L	30	---	---	---
2,4-Dichlorophenol	120-83-2	Water/Liquid	8270C	0.78	10	ug/L	20	---	---	---
2,4-Dimethylphenol	105-67-9	Water/Liquid	8270C	0.50	10	ug/L	100	---	---	---
2,4-Dinitrophenol	51-28-5	Water/Liquid	8270C	0.78	10	ug/L	0.5 (2)	---	---	---
2,4-Dinitrotoluene	121-14-2	Water/Liquid	8270C	0.49	10	ug/L	---	---	---	---
2,6-Dichlorophenol	87-65-0	Water/Liquid	8270C	0.78	10	ug/L	0.5 (2)	---	---	---
2,6-Dinitrotoluene	606-20-2	Water/Liquid	8270C	0.39	10	ug/L	---	---	---	---
2-Chloronaphthalene	91-68-7	Water/Liquid	8270C	0.20	10	ug/L	---	---	---	---
2-Chlorophenol	95-57-8	Water/Liquid	8270C	0.66	10	ug/L	30	---	---	---
2-Methylnaphthalene	81-57-6	Water/Liquid	8270C	0.82	10	ug/L	---	---	---	---
2-Methylphenol	95-48-7	Water/Liquid	8270C	0.77	10	ug/L	30	---	---	---
2-Nitroaniline	80-74-4	Water/Liquid	8270C	0.92	10	ug/L	---	---	---	---
2-Nitrophenol	88-75-5	Water/Liquid	8270C	1.0	10	ug/L	---	---	---	---
3,3'-Dichlorobenzidine	91-94-1	Water/Liquid	8270C	7.1	25	ug/L	0.8	---	---	---
3-Nitroaniline	99-09-2	Water/Liquid	8270C	0.95	10	ug/L	---	---	---	---
4,6-Dinitro-2-methylphenol	634-82-1	Water/Liquid	8270C	0.90	10	ug/L	---	---	---	---
4-Bromophenyl phenyl ether	101-55-3	Water/Liquid	8270C	0.19	10	ug/L	---	---	---	---
4-Chloro-3-methylphenol	89-50-7	Water/Liquid	8270C	0.79	10	ug/L	---	---	---	---
4-Chloroaniline	106-47-8	Water/Liquid	8270C	1.0	10	ug/L	---	---	---	---
4-Chlorophenol	106-48-9	Water/Liquid	8270C	NA	NA	ug/L	---	---	---	---
4-Chlorophenyl phenyl ether	7005-72-3	Water/Liquid	8270C	0.15	10	ug/L	---	---	---	---
4-Methylphenol	106-44-5	Water/Liquid	8270C	0.82	10	ug/L	3	---	---	---
4-Nitroaniline	100-01-6	Water/Liquid	8270C	0.93	10	ug/L	---	---	---	---
4-Nitrophenol	100-02-7	Water/Liquid	8270C	1.2	10	ug/L	---	---	---	---
Acenaphthene	83-32-9	Water/Liquid	8270C	0.15	10	ug/L	400	---	---	---
Acenaphthylene	208-96-8	Water/Liquid	8270C	0.17	10	ug/L	---	---	---	---
Aniline	62-53-3	Water/Liquid	8270C	0.97	10	ug/L	---	---	---	---
Anthracene	120-12-7	Water/Liquid	8270C	0.18	10	ug/L	2000	---	---	---
Benzidine	92-87-5	Water/Liquid	8270C	23	100	ug/L	---	---	---	---
Benzo (a) anthracene	56-55-3	Water/Liquid	8270C	0.18	10	ug/L	---	---	---	---
Benzo (a) pyrene	50-32-8	Water/Liquid	8270C	0.22	10	ug/L	---	---	---	---
Benzo (b) fluoranthene	205-99-2	Water/Liquid	8270C	0.18	10	ug/L	---	---	---	---
Benzo (g,h,i) perylene	191-24-2	Water/Liquid	8270C	0.24	10	ug/L	---	---	---	---
Benzo (k) fluoranthene	207-08-9	Water/Liquid	8270C	0.21	10	ug/L	---	---	---	---
Benzoic acid	65-85-0	Water/Liquid	8270C	0.75	10	ug/L	30000	---	---	---
Benzyl alcohol	100-51-6	Water/Liquid	8270C	0.66	10	ug/L	---	---	---	---
Bis(2-chloroethoxy)methane	111-91-1	Water/Liquid	8270C	0.21	10	ug/L	---	---	---	---

P:\Mpls23\MN192319B05 Umore park environmental\WorkFiles\Phase II Investigation\WO#1 and #6\Phase II Work Plan\SSI_RI Work Plan\SAFV2.0\Part 2-QAPPTables\Table 1 of 7

Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier I SLV	Minnesota SRV	Minnesota Tier II Industrial SRV
Bis(2-chloroethyl) ether	111-44-4	Water/Liquid	8270C	0.21	10	ug/L	0.3	--	--	--
Bis(2-chloroisopropyl) ether	39638-32-8	Water/Liquid	8270C	0.14	10	ug/L	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Water/Liquid	8270C	0.45	10	ug/L	20 (1)	--	--	--
Butyl benzyl phthalate	85-68-7	Water/Liquid	8270C	0.33	10	ug/L	100	--	--	--
Carbazole	86-74-8	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Chrysene	218-01-9	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
Dibenz (a,h) anthracene	53-70-3	Water/Liquid	8270C	0.25	10	ug/L	--	--	--	--
Dibenzofuran	132-64-9	Water/Liquid	8270C	0.27	10	ug/L	--	--	--	--
Diethyl phthalate	84-66-2	Water/Liquid	8270C	0.32	10	ug/L	6000	--	--	--
Dimethyl phthalate	131-11-3	Water/Liquid	8270C	0.26	10	ug/L	70000	--	--	--
Di-n-butyl phthalate	84-74-2	Water/Liquid	8270C	0.33	10	ug/L	700	--	--	--
Di-n-octyl phthalate	117-84-0	Water/Liquid	8270C	0.42	10	ug/L	--	--	--	--
Fluoranthene	206-44-0	Water/Liquid	8270C	0.23	10	ug/L	300	--	--	--
Fluorene	86-73-7	Water/Liquid	8270C	0.16	10	ug/L	300	--	--	--
Hexachlorobenzene	118-74-1	Water/Liquid	8270C	0.15	10	ug/L	0.2	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8270C	0.34	10	ug/L	1	--	--	--
Hexachlorocyclopentadiene	77-47-4	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Hexachloroethane	67-72-1	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
Isophthalene	78-58-1	Water/Liquid	8270C	0.23	10	ug/L	100	--	--	--
Naphthalene	91-20-3	Water/Liquid	8270C	0.19	10	ug/L	300	--	--	--
Nitrobenzene	98-95-3	Water/Liquid	8270C	0.26	10	ug/L	--	--	--	--
N-Nitrosodimethylamine	62-76-9	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
N-Nitrosodi-n-propylamine	621-64-7	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
N-Nitrosodiphenylamine ***	86-30-6	Water/Liquid	8270C	0.27	10	ug/L	70	--	--	--
Diphenylamine ***	122-39-4	Water/Liquid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.99	10	ug/L	1 (3)	--	--	--
Phenanthrene	85-01-8	Water/Liquid	8270C	0.13	10	ug/L	--	--	--	--
Phenol	106-95-2	Water/Liquid	8270C	0.59	10	ug/L	4000	--	--	--
Pyrene	129-00-0	Water/Liquid	8270C	0.24	10	ug/L	200	--	--	--

- Notes:**
- M - the values with this notation indicate the limit is for all combined isomers of this compound
 - T - the values with this notation represent the limit for the total carcinogenic PAHs as BaP
 - C - Mercury as mercuric chloride
 - (TA) - Legend Technical Services, Inc. will subcontract this analysis to Test America, West Sacramento, California.
 - (Braun) - Legend Technical Services, Inc. will subcontract this analysis to Braun Intertec, Minneapolis, MN.
 - (1) Not a HRL but a Health Based Value (HBV)
 - (2) (SRL)-Specific Risk Level (water concentration which corresponds to a riskof 1E-5.
 - (3) Not a HRL but an EPA Maximum Contaminant Level (MCL).
 - (4) Value is representative of the lowest exposure duration published in the 2008 Health Risk Limits.
 - (5) Value represents the criteria for Chromium, hexavalent.
 - (6) Set at short-term HRL.
 - (7) Not a HRL, but a Risk Assessment Advice (RAA).
 - (8) Value represents the criteria for Chromium, Trivalent.
 - (9) - Minnesota Department of Health, Health Risk Limit (HRL) unless noted otherwise.
 - * - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Leaching Value (SLV)
 - † - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Reference Value (SRV)
 - ‡ - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Tier II Industrial SRV.



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September 28, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0904032
RE: 23190B05.07

Enclosed are the results of analyses for samples received by the laboratory on 09/14/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

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Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904032 Date Reported: 09/28/09
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SOC4-GP2_1-3	0904032-01	Soil	09/11/09 09:15	09/14/09 13:15
SOC4-GP3_1-3	0904032-02	Soil	09/11/09 10:00	09/14/09 13:15
SOC1-GP3R	0904032-03	Water	09/11/09 11:15	09/14/09 13:15

Shipping Container Information

Default Cooler Temperature (°C): 8.7

Received on ice: Yes Temperature blank was present Received on ice pack: No
Received on melt water: No Ambient: No Acceptable (IH/ISO only): No
Custody seals: Yes

Case Narrative:

MN Certification does not apply to carbazole in the 8270C analysis.

Beryllium recoveries in the MS/MSD samples for 6020 batch B9I2003 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was not associated with this work order.

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904032 Date Reported: 09/28/09
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DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC1-GP3R (0904032-03) Water Sampled: 09/11/09 11:15 Received: 09/14/09 13:15										
Antimony	<0.046	0.50	0.046	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Arsenic	<10	10	2.0	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9I2109	09/21/09	09/22/09	EPA 7470A (Dissolved)	
Nickel	<5.0	5.0	0.28	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B9I2003	09/20/09	09/21/09	EPA 6020 (Dissolved)	
Zinc	<20	20	4.4	ug/L	1	B9I2004	09/20/09	09/21/09	EPA 6010B (Dissolved)	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Neppl	Work Order #: 0904032 Date Reported: 09/28/09
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PERCENT SOLIDS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP2_1-3 (0904032-01) Soil Sampled: 09/11/09 09:15 Received: 09/14/09 13:15										
% Solids	90			%	1	B9I2310	09/23/09	09/23/09	% calculation	
SOC4-GP3_1-3 (0904032-02) Soil Sampled: 09/11/09 10:00 Received: 09/14/09 13:15										
% Solids	87			%	1	B9I2310	09/23/09	09/23/09	% calculation	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904032 Date Reported: 09/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP2_1-3 (0904032-01) Soil Sampled: 09/11/09 09:15 Received: 09/14/09 13:15										
1,2,4-Trichlorobenzene	<0.030	0.37	0.030	mg/kg dry	1	B911804	09/18/09	09/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.042	0.74	0.042	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.027	0.74	0.027	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.039	0.74	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.039	0.74	0.039	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.74	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.064	0.74	0.064	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.023	0.37	0.023	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.048	0.74	0.048	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.042	0.74	0.042	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.039	0.74	0.039	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.040	0.74	0.040	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.43	1.8	0.43	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.082	0.74	0.082	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.044	0.74	0.044	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.12	0.74	0.12	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.030	0.74	0.030	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.74	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	J
Acenaphthylene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.74	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
Benzidine	<0.80	2.8	0.80	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.030	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.030	0.37	0.030	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.038	0.37	0.038	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.033	0.37	0.033	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904032 Date Reported: 09/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP2_1-3 (0904032-01) Soil Sampled: 09/11/09 09:15 Received: 09/14/09 13:15										
Benzo (k) fluoranthene	<0.034	0.37	0.034	mg/kg dry	1	B911804	09/18/09	09/18/09	EPA 8270C	
Benzoic acid	<0.064	0.37	0.064	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.13	0.74	0.13	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.023	0.37	0.023	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.022	0.37	0.022	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.023	0.37	0.023	mg/kg dry	1	"	"	"	"	
Carbazole	<0.024	0.37	0.024	mg/kg dry	1	"	"	"	"	
Chrysene	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.038	0.37	0.038	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.37	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.041	0.37	0.041	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.027	0.37	0.027	mg/kg dry	1	"	"	"	"	
Fluorene	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.37	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.037	0.37	0.037	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.046	0.37	0.046	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.031	0.37	0.031	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.036	0.37	0.036	mg/kg dry	1	"	"	"	"	
Isophorone	<0.019	0.37	0.019	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.032	0.37	0.032	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.033	0.37	0.033	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.036	0.37	0.036	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.028	0.37	0.028	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.020	0.37	0.020	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.74	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.021	0.37	0.021	mg/kg dry	1	"	"	"	"	
Phenol	<0.063	0.74	0.063	mg/kg dry	1	"	"	"	"	
Pyrene	<0.026	0.37	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	85.1			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	68.3			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	72.8			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	73.2			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	79.2			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	69.3			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Neppi	Work Order #: 0904032 Date Reported: 09/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP3_1-3 (0904032-02) Soil Sampled: 09/11/09 10:00 Received: 09/14/09 13:15										
1,2,4-Trichlorobenzene	<0.031	0.38	0.031	mg/kg dry	1	B911804	09/18/09	09/18/09	EPA 8270C	
1,2-Dichlorobenzene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
1,3-Dichlorobenzene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
1,4-Dichlorobenzene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.028	0.77	0.028	mg/kg dry	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dichlorophenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2,4-Dimethylphenol	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
2,4-Dinitrophenol	<0.067	0.77	0.067	mg/kg dry	1	"	"	"	"	
2,4-Dinitrotoluene	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
2,6-Dichlorophenol	<0.049	0.77	0.049	mg/kg dry	1	"	"	"	"	
2,6-Dinitrotoluene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chloronaphthalene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
2-Chlorophenol	<0.044	0.77	0.044	mg/kg dry	1	"	"	"	"	
2-Methylnaphthalene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
2-Methylphenol	<0.040	0.77	0.040	mg/kg dry	1	"	"	"	"	
2-Nitroaniline	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
2-Nitrophenol	<0.041	0.77	0.041	mg/kg dry	1	"	"	"	"	
3,3'-Dichlorobenzidine	<0.45	1.8	0.45	mg/kg dry	1	"	"	"	"	
3-Nitroaniline	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.085	0.77	0.085	mg/kg dry	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.046	0.77	0.046	mg/kg dry	1	"	"	"	"	
4-Chloroaniline	<0.13	0.77	0.13	mg/kg dry	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Methylphenol	<0.031	0.77	0.031	mg/kg dry	1	"	"	"	"	
4-Nitroaniline	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
4-Nitrophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Acenaphthene	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Acenaphthylene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Aniline	<0.10	0.77	0.10	mg/kg dry	1	"	"	"	"	
Anthracene	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Benzidine	<0.83	2.9	0.83	mg/kg dry	1	"	"	"	"	
Benzo (a) anthracene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (a) pyrene	<0.031	0.38	0.031	mg/kg dry	1	"	"	"	"	
Benzo (b) fluoranthene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904032 Date Reported: 09/28/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SOC4-GP3_1-3 (0904032-02) Soil Sampled: 09/11/09 10:00 Received: 09/14/09 13:15										
Benzo (k) fluoranthene	<0.036	0.38	0.036	mg/kg dry	1	B911804	09/18/09	09/18/09	EPA 8270C	
Benzoic acid	<0.067	0.38	0.067	mg/kg dry	1	"	"	"	"	
Benzyl alcohol	<0.14	0.77	0.14	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.023	0.38	0.023	mg/kg dry	1	"	"	"	"	
Butyl benzyl phthalate	<0.024	0.38	0.024	mg/kg dry	1	"	"	"	"	
Carbazole	<0.025	0.38	0.025	mg/kg dry	1	"	"	"	"	
Chrysene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.039	0.38	0.039	mg/kg dry	1	"	"	"	"	
Dibenzofuran	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Diethyl phthalate	<0.017	0.38	0.017	mg/kg dry	1	"	"	"	"	
Dimethyl phthalate	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Di-n-butyl phthalate	<0.043	0.38	0.043	mg/kg dry	1	"	"	"	"	
Di-n-octyl phthalate	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
Fluoranthene	<0.028	0.38	0.028	mg/kg dry	1	"	"	"	"	
Fluorene	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Hexachlorobenzene	<0.018	0.38	0.018	mg/kg dry	1	"	"	"	"	
Hexachlorobutadiene	<0.038	0.38	0.038	mg/kg dry	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.047	0.38	0.047	mg/kg dry	1	"	"	"	"	
Hexachloroethane	<0.032	0.38	0.032	mg/kg dry	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
Isophorone	<0.020	0.38	0.020	mg/kg dry	1	"	"	"	"	
Naphthalene	<0.033	0.38	0.033	mg/kg dry	1	"	"	"	"	
Nitrobenzene	<0.034	0.38	0.034	mg/kg dry	1	"	"	"	"	
N-Nitrosodimethylamine	<0.037	0.38	0.037	mg/kg dry	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.029	0.38	0.029	mg/kg dry	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.021	0.38	0.021	mg/kg dry	1	"	"	"	"	
Pentachlorophenol	<0.11	0.77	0.11	mg/kg dry	1	"	"	"	"	
Phenanthrene	<0.022	0.38	0.022	mg/kg dry	1	"	"	"	"	
Phenol	<0.066	0.77	0.066	mg/kg dry	1	"	"	"	"	
Pyrene	<0.026	0.38	0.026	mg/kg dry	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	83.3			47.2-108 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	64.2			53.2-85.1 %		"	"	"	"	
Surrogate: 2-Fluorophenol	68.5			48.5-90.1 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	68.9			49.1-86.9 %		"	"	"	"	
Surrogate: Phenol-d6	75.7			47.6-99.6 %		"	"	"	"	
Surrogate: Terphenyl-d14	69.4			43.6-112 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904032 Date Reported: 09/28/09
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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9I2003 - EPA 200.8 Digestion

Blank (B9I2003-BLK1)

Prepared: 09/20/09 Analyzed: 09/23/09

Antimony	< 0.046	0.50	0.046	ug/L							
Beryllium	< 0.027	0.50	0.027	ug/L							
Thallium	< 0.0081	0.50	0.0081	ug/L							

LCS (B9I2003-BS1)

Prepared: 09/20/09 Analyzed: 09/24/09

Antimony	23.1	0.50	0.046	ug/L	20.0		116	80-120			
Beryllium	22.4	0.50	0.027	ug/L	20.0		112	80-120			
Thallium	20.6	0.50	0.0081	ug/L	20.0		103	80-120			

LCS Dup (B9I2003-BSD1)

Prepared: 09/20/09 Analyzed: 09/23/09

Antimony	22.1	0.50	0.046	ug/L	20.0		111	80-120	4.30	20	
Beryllium	21.9	0.50	0.027	ug/L	20.0		109	80-120	2.42	20	
Thallium	21.5	0.50	0.0081	ug/L	20.0		108	80-120	4.58	20	

Matrix Spike (B9I2003-MS1)

Source: 0903921-02

Prepared: 09/20/09 Analyzed: 09/23/09

Antimony	15.7	0.50	0.046	ug/L	20.0	0.542	75.8	75-125			
Beryllium	4.78	0.50	0.027	ug/L	20.0	<0.50	23.9	75-125			M2
Thallium	21.7	0.50	0.0081	ug/L	20.0	<0.50	108	75-125			

Matrix Spike Dup (B9I2003-MSD1)

Source: 0903921-02

Prepared: 09/20/09 Analyzed: 09/23/09

Antimony	19.0	0.50	0.046	ug/L	20.0	0.542	92.2	75-125	19.0	20	
Beryllium	4.96	0.50	0.027	ug/L	20.0	<0.50	24.8	75-125	3.76	20	M2
Thallium	21.7	0.50	0.0081	ug/L	20.0	<0.50	108	75-125	0.323	20	

Batch B9I2004 - EPA 200.7/3005A Digestion

Blank (B9I2004-BLK1)

Prepared & Analyzed: 09/20/09

Arsenic	< 10	10	2.0	ug/L							
Cadmium	< 1.0	1.0	0.099	ug/L							
Chromium	< 10	10	0.24	ug/L							
Copper	< 20	20	1.4	ug/L							
Lead	< 3.0	3.0	0.68	ug/L							
Nickel	< 5.0	5.0	0.28	ug/L							
Selenium	< 20	20	2.2	ug/L							
Silver	< 5.0	5.0	0.18	ug/L							
Zinc	< 20	20	4.4	ug/L							

LCS (B9I2004-BS1)

Prepared: 09/20/09 Analyzed: 09/21/09

Arsenic	332	10	2.0	ug/L	399		83.2	80-120			
Cadmium	353	1.0	0.099	ug/L	399		88.4	80-120			
Chromium	366	10	0.24	ug/L	399		91.8	80-120			
Copper	338	20	1.4	ug/L	399		84.7	80-120			
Lead	357	3.0	0.68	ug/L	399		89.4	80-120			
Nickel	360	5.0	0.28	ug/L	399		90.3	80-120			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904032 Date Reported: 09/28/09
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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9I2004 - EPA 200.7/3005A Digestion

LCS (B9I2004-BS1)

Prepared: 09/20/09 Analyzed: 09/21/09

Selenium	330	20	2.2	ug/L	399		82.8	80-120			
Silver	34.1	5.0	0.18	ug/L	39.9		85.4	80-120			
Zinc	343	20	4.4	ug/L	399		86.0	80-120			

LCS Dup (B9I2004-BSD1)

Prepared: 09/20/09 Analyzed: 09/21/09

Arsenic	338	10	2.0	ug/L	399		84.8	80-120	1.84	20	
Cadmium	362	1.0	0.099	ug/L	399		90.7	80-120	2.59	20	
Chromium	367	10	0.24	ug/L	399		92.1	80-120	0.260	20	
Copper	340	20	1.4	ug/L	399		85.3	80-120	0.643	20	
Lead	368	3.0	0.68	ug/L	399		92.1	80-120	2.95	20	
Nickel	364	5.0	0.28	ug/L	399		91.3	80-120	1.01	20	
Selenium	333	20	2.2	ug/L	399		83.4	80-120	0.634	20	
Silver	33.8	5.0	0.18	ug/L	39.9		84.6	80-120	0.933	20	
Zinc	348	20	4.4	ug/L	399		87.2	80-120	1.31	20	

Matrix Spike (B9I2004-MS1)

Source: 0904026-01

Prepared: 09/20/09 Analyzed: 09/21/09

Arsenic	343	10	2.0	ug/L	399	<10	86.0	75-125			
Cadmium	358	1.0	0.099	ug/L	399	<1.0	89.8	75-125			
Chromium	364	10	0.24	ug/L	399	<10	91.2	75-125			
Copper	343	20	1.4	ug/L	399	<20	85.9	75-125			
Lead	362	3.0	0.68	ug/L	399	<3.0	90.7	75-125			
Nickel	361	5.0	0.28	ug/L	399	28.1	83.5	75-125			
Selenium	338	20	2.2	ug/L	399	<20	84.6	75-125			
Silver	33.9	5.0	0.18	ug/L	39.9	<5.0	85.0	75-125			
Zinc	347	20	4.4	ug/L	399	<20	87.0	75-125			

Matrix Spike Dup (B9I2004-MSD1)

Source: 0904026-01

Prepared: 09/20/09 Analyzed: 09/21/09

Arsenic	347	10	2.0	ug/L	399	<10	86.9	75-125	1.02	20	
Cadmium	358	1.0	0.099	ug/L	399	<1.0	89.6	75-125	0.192	20	
Chromium	361	10	0.24	ug/L	399	<10	90.4	75-125	0.798	20	
Copper	345	20	1.4	ug/L	399	<20	86.4	75-125	0.605	20	
Lead	361	3.0	0.68	ug/L	399	<3.0	90.4	75-125	0.319	20	
Nickel	362	5.0	0.28	ug/L	399	28.1	83.6	75-125	0.141	20	
Selenium	341	20	2.2	ug/L	399	<20	85.5	75-125	1.09	20	
Silver	33.8	5.0	0.18	ug/L	39.9	<5.0	84.8	75-125	0.148	20	
Zinc	366	20	4.4	ug/L	399	<20	91.7	75-125	5.18	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Neppi	Work Order #: 0904032 Date Reported: 09/28/09
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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2109 - EPA 245.1/7470A Digestion											
Blank (B9I2109-BLK1)											
Mercury	< 0.20	0.20	0.018	ug/L							Prepared: 09/21/09 Analyzed: 09/22/09
LCS (B9I2109-BS1)											
Mercury	2.12	0.20	0.018	ug/L	2.00		106	80-120			Prepared: 09/21/09 Analyzed: 09/22/09
LCS Dup (B9I2109-BSD1)											
Mercury	2.16	0.20	0.018	ug/L	2.00		108	80-120	1.87	20	Prepared: 09/21/09 Analyzed: 09/22/09
Matrix Spike (B9I2109-MS1)											
						Source: 0904075-01					Prepared: 09/21/09 Analyzed: 09/22/09
Mercury	1.97	0.20	0.018	ug/L	2.00	<0.20	98.5	75-125			
Matrix Spike Dup (B9I2109-MSD1)											
						Source: 0904075-01					Prepared: 09/21/09 Analyzed: 09/22/09
Mercury	2.07	0.20	0.018	ug/L	2.00	<0.20	104	75-125	4.95	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Neppl	Work Order #: 0904032 Date Reported: 09/28/09
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PERCENT SOLIDS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9I2310 - General Preparation											
Duplicate (B9I2310-DUP1)											
	Source: 0904140-04		Prepared & Analyzed: 09/23/09								
% Solids	94.0			%		94.0			0.00	20	
Duplicate (B9I2310-DUP2)											
	Source: 0904140-14		Prepared & Analyzed: 09/23/09								
% Solids	89.0			%		88.0			1.13	20	
Duplicate (B9I2310-DUP3)											
	Source: 0904173-01		Prepared & Analyzed: 09/23/09								
% Solids	32.0			%		32.0			0.00	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Neppl	Work Order #: 0904032 Date Reported: 09/28/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B911804 - EPA 3545 ASE Extraction

Blank (B911804-BLK1)

Prepared & Analyzed: 09/18/09

1,2,4-Trichlorobenzene	< 0.027	0.33	0.027	mg/kg wet							
1,2-Dichlorobenzene	< 0.025	0.33	0.025	mg/kg wet							
1,2-Diphenylhydrazine as Azobenzene	< 0.020	0.33	0.020	mg/kg wet							
1,3-Dichlorobenzene	< 0.023	0.33	0.023	mg/kg wet							
1,4-Dichlorobenzene	< 0.024	0.33	0.024	mg/kg wet							
2,3,4,6-Tetrachlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2,4,5-Trichlorophenol	< 0.024	0.67	0.024	mg/kg wet							
2,4,6-Trichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dichlorophenol	< 0.035	0.67	0.035	mg/kg wet							
2,4-Dimethylphenol	< 0.090	0.67	0.090	mg/kg wet							
2,4-Dinitrophenol	< 0.058	0.67	0.058	mg/kg wet							
2,4-Dinitrotoluene	< 0.021	0.33	0.021	mg/kg wet							
2,6-Dichlorophenol	< 0.043	0.67	0.043	mg/kg wet							
2,6-Dinitrotoluene	< 0.019	0.33	0.019	mg/kg wet							
2-Chloronaphthalene	< 0.019	0.33	0.019	mg/kg wet							
2-Chlorophenol	< 0.038	0.67	0.038	mg/kg wet							
2-Methylnaphthalene	< 0.028	0.33	0.028	mg/kg wet							
2-Methylphenol	< 0.035	0.67	0.035	mg/kg wet							
2-Nitroaniline	< 0.020	0.33	0.020	mg/kg wet							
2-Nitrophenol	< 0.036	0.67	0.036	mg/kg wet							
3,3'-Dichlorobenzidine	< 0.39	1.6	0.39	mg/kg wet							
3-Nitroaniline	< 0.033	0.33	0.033	mg/kg wet							
4,6-Dinitro-2-methylphenol	< 0.074	0.67	0.074	mg/kg wet							
4-Bromophenyl phenyl ether	< 0.017	0.33	0.017	mg/kg wet							
4-Chloro-3-methylphenol	< 0.040	0.67	0.040	mg/kg wet							
4-Chloroaniline	< 0.11	0.67	0.11	mg/kg wet							
4-Chlorophenyl phenyl ether	< 0.023	0.33	0.023	mg/kg wet							
4-Methylphenol	< 0.027	0.67	0.027	mg/kg wet							
4-Nitroaniline	< 0.023	0.33	0.023	mg/kg wet							
4-Nitrophenol	< 0.099	0.67	0.099	mg/kg wet							
Acenaphthene	< 0.028	0.33	0.028	mg/kg wet							
Acenaphthylene	< 0.023	0.33	0.023	mg/kg wet							
Aniline	< 0.090	0.67	0.090	mg/kg wet							
Anthracene	< 0.025	0.33	0.025	mg/kg wet							
Benzidine	< 0.72	2.5	0.72	mg/kg wet							
Benzo (a) anthracene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (a) pyrene	< 0.027	0.33	0.027	mg/kg wet							
Benzo (b) fluoranthene	< 0.034	0.33	0.034	mg/kg wet							
Benzo (g,h,i) perylene	< 0.030	0.33	0.030	mg/kg wet							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Neppi	Work Order #: 0904032 Date Reported: 09/28/09
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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B911804 - EPA 3545 ASE Extraction

Blank (B911804-BLK1)

Prepared & Analyzed: 09/18/09

Benzo (k) fluoranthene	< 0.031	0.33	0.031	mg/kg wet							
Benzoic acid	< 0.058	0.33	0.058	mg/kg wet							
Benzyl alcohol	< 0.12	0.67	0.12	mg/kg wet							
Bis(2-chloroethoxy)methane	< 0.021	0.33	0.021	mg/kg wet							
Bis(2-chloroethyl)ether	< 0.024	0.33	0.024	mg/kg wet							
Bis(2-chloroisopropyl)ether	< 0.022	0.33	0.022	mg/kg wet							
Bis(2-ethylhexyl)phthalate	< 0.020	0.33	0.020	mg/kg wet							
Butyl benzyl phthalate	< 0.021	0.33	0.021	mg/kg wet							
Carbazole	< 0.022	0.33	0.022	mg/kg wet							
Chrysene	< 0.033	0.33	0.033	mg/kg wet							
Dibenz (a,h) anthracene	< 0.034	0.33	0.034	mg/kg wet							
Dibenzofuran	< 0.019	0.33	0.019	mg/kg wet							
Diethyl phthalate	< 0.015	0.33	0.015	mg/kg wet							
Dimethyl phthalate	< 0.018	0.33	0.018	mg/kg wet							
Di-n-butyl phthalate	< 0.037	0.33	0.037	mg/kg wet							
Di-n-octyl phthalate	< 0.025	0.33	0.025	mg/kg wet							
Fluoranthene	< 0.024	0.33	0.024	mg/kg wet							
Fluorene	< 0.018	0.33	0.018	mg/kg wet							
Hexachlorobenzene	< 0.016	0.33	0.016	mg/kg wet							
Hexachlorobutadiene	< 0.033	0.33	0.033	mg/kg wet							
Hexachlorocyclopentadiene	< 0.041	0.33	0.041	mg/kg wet							
Hexachloroethane	< 0.028	0.33	0.028	mg/kg wet							
Indeno (1,2,3-cd) pyrene	< 0.032	0.33	0.032	mg/kg wet							
Isophorone	< 0.017	0.33	0.017	mg/kg wet							
Naphthalene	< 0.029	0.33	0.029	mg/kg wet							
Nitrobenzene	< 0.030	0.33	0.030	mg/kg wet							
N-Nitrosodimethylamine	< 0.032	0.33	0.032	mg/kg wet							
N-Nitrosodi-n-propylamine	< 0.025	0.33	0.025	mg/kg wet							
N-Nitrosodiphenylamine	< 0.018	0.33	0.018	mg/kg wet							
Pentachlorophenol	< 0.096	0.67	0.096	mg/kg wet							
Phenanthrene	< 0.019	0.33	0.019	mg/kg wet							
Phenol	< 0.057	0.67	0.057	mg/kg wet							
Pyrene	< 0.023	0.33	0.023	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	4.42			mg/kg wet	6.67		66.3	47.2-108			
Surrogate: 2-Fluorobiphenyl	3.70			mg/kg wet	6.67		55.5	53.2-85.1			
Surrogate: 2-Fluorophenol	3.91			mg/kg wet	6.67		58.7	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.00			mg/kg wet	6.67		60.0	49.1-86.9			
Surrogate: Phenol-d6	4.20			mg/kg wet	6.67		63.0	47.6-99.6			
Surrogate: Terphenyl-d14	4.12			mg/kg wet	6.67		61.9	43.6-112			

Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Project: 23190B05.07
Project Number: 23190B05.07 SIRI 300
Project Manager: Ms. Kelly Neppi

Work Order #: 0904032
Date Reported: 09/28/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B911804 - EPA 3545 ASE Extraction

LCS (B911804-BS1)

Prepared & Analyzed: 09/18/09

1,2,4-Trichlorobenzene	4.11	0.33	0.027	mg/kg wet	6.67		61.6	50.7-82.1			
1,4-Dichlorobenzene	3.59	0.33	0.024	mg/kg wet	6.67		53.8	44-77			
2,4-Dinitrotoluene	4.56	0.33	0.021	mg/kg wet	6.67		68.5	56.7-81.7			
2-Chlorophenol	4.19	0.67	0.038	mg/kg wet	6.67		62.8	52.3-88.2			
4-Chloro-3-methylphenol	4.49	0.67	0.040	mg/kg wet	6.67		67.3	53.4-87			
4-Nitrophenol	4.84	0.67	0.099	mg/kg wet	6.67		72.6	55.7-87.1			
Anthracene	4.79	0.33	0.025	mg/kg wet	6.67		71.9	65.3-92			
Benzo (a) anthracene	5.07	0.33	0.027	mg/kg wet	6.67		76.1	69-95.3			
Benzo (a) pyrene	5.03	0.33	0.027	mg/kg wet	6.67		75.5	68.5-98.2			
Chrysene	4.96	0.33	0.033	mg/kg wet	6.67		74.4	68.6-94.2			
Fluoranthene	4.76	0.33	0.024	mg/kg wet	6.67		71.4	64.3-94.6			
Fluorene	4.55	0.33	0.018	mg/kg wet	6.67		68.2	61.9-89.4			
N-Nitrosodi-n-propylamine	4.54	0.33	0.025	mg/kg wet	6.67		68.1	55.5-91.1			
Pentachlorophenol	4.02	0.67	0.096	mg/kg wet	6.67		60.3	54.7-74.6			
Phenanthrene	4.66	0.33	0.019	mg/kg wet	6.67		70.0	64.3-90.9			
Phenol	4.17	0.67	0.057	mg/kg wet	6.67		62.5	49.7-85.4			
Surrogate: 2,4,6-Tribromophenol	5.08			mg/kg wet	6.67		76.3	47.2-108			
Surrogate: 2-Fluorobiphenyl	4.05			mg/kg wet	6.67		60.8	53.2-85.1			
Surrogate: 2-Fluorophenol	4.32			mg/kg wet	6.67		64.8	48.5-90.1			
Surrogate: Nitrobenzene-d5	4.36			mg/kg wet	6.67		65.4	49.1-86.9			
Surrogate: Phenol-d6	4.69			mg/kg wet	6.67		70.3	47.6-99.6			
Surrogate: Terphenyl-d14	4.55			mg/kg wet	6.67		68.2	43.6-112			

Matrix Spike (B911804-MS1)

Source: 0904029-09

Prepared & Analyzed: 09/18/09

1,2,4-Trichlorobenzene	5.16	0.40	0.033	mg/kg dry	8.12	<0.40	63.6	51-77.5			
1,4-Dichlorobenzene	4.43	0.40	0.029	mg/kg dry	8.12	<0.40	54.6	41.7-73.4			
2,4-Dinitrotoluene	5.55	0.40	0.025	mg/kg dry	8.12	<0.40	68.4	50-84.8			
2-Chlorophenol	5.22	0.81	0.046	mg/kg dry	8.12	<0.81	64.3	47.8-90.8			
4-Chloro-3-methylphenol	5.53	0.81	0.048	mg/kg dry	8.12	<0.81	68.1	48.4-95.1			
4-Nitrophenol	6.14	0.81	0.12	mg/kg dry	8.12	<0.81	75.7	44-105			
Anthracene	5.94	0.40	0.030	mg/kg dry	8.12	<0.40	73.2	60.2-97.3			
Benzo (a) anthracene	6.17	0.40	0.033	mg/kg dry	8.12	<0.40	76.0	59.8-102			
Benzo (a) pyrene	6.05	0.40	0.033	mg/kg dry	8.12	<0.40	74.5	57.2-105			
Chrysene	6.08	0.40	0.040	mg/kg dry	8.12	<0.40	74.8	59.2-102			
Fluoranthene	5.72	0.40	0.029	mg/kg dry	8.12	<0.40	70.5	50.4-108			
Fluorene	5.67	0.40	0.022	mg/kg dry	8.12	<0.40	69.8	57.8-94.4			
N-Nitrosodi-n-propylamine	5.61	0.40	0.030	mg/kg dry	8.12	<0.40	69.1	46.2-96.2			
Pentachlorophenol	5.49	0.81	0.12	mg/kg dry	8.12	<0.81	67.6	53.6-80.4			
Phenanthrene	5.82	0.40	0.023	mg/kg dry	8.12	<0.40	71.7	58.4-97.5			
Phenol	5.20	0.81	0.069	mg/kg dry	8.12	<0.81	64.1	44-88.5			

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23190B05.07
 Project Number: 23190B05.07 SIRI 300
 Project Manager: Ms. Kelly Nepl

Work Order #: 0904032
 Date Reported: 09/28/09

SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B911804 - EPA 3545 ASE Extraction

Matrix Spike (B911804-MS1)

Source: 0904029-09

Prepared & Analyzed: 09/18/09

Surrogate: 2,4,6-Tribromophenol	6.39			mg/kg dry	8.12		78.7	47.2-108			
Surrogate: 2-Fluorobiphenyl	5.12			mg/kg dry	8.12		63.1	53.2-85.1			
Surrogate: 2-Fluorophenol	5.41			mg/kg dry	8.12		66.7	48.5-90.1			
Surrogate: Nitrobenzene-d5	5.54			mg/kg dry	8.12		68.2	49.1-86.9			
Surrogate: Phenol-d6	5.89			mg/kg dry	8.12		72.5	47.6-99.6			
Surrogate: Terphenyl-d14	5.64			mg/kg dry	8.12		69.5	43.6-112			

Matrix Spike Dup (B911804-MSD1)

Source: 0904029-09

Prepared & Analyzed: 09/18/09

1,2,4-Trichlorobenzene	5.25	0.40	0.033	mg/kg dry	8.12	<0.40	64.6	51-77.5	1.59	15.7	
1,4-Dichlorobenzene	4.53	0.40	0.029	mg/kg dry	8.12	<0.40	55.9	41.7-73.4	2.26	14.7	
2,4-Dinitrotoluene	5.39	0.40	0.025	mg/kg dry	8.12	<0.40	66.4	50-84.8	2.92	20.5	
2-Chlorophenol	5.29	0.81	0.046	mg/kg dry	8.12	<0.81	65.2	47.8-90.8	1.36	19.8	
4-Chloro-3-methylphenol	5.50	0.81	0.048	mg/kg dry	8.12	<0.81	67.8	48.4-95.1	0.438	18.7	
4-Nitrophenol	5.90	0.81	0.12	mg/kg dry	8.12	<0.81	72.7	44-105	3.97	30.9	
Anthracene	5.87	0.40	0.030	mg/kg dry	8.12	<0.40	72.3	60.2-97.3	1.22	15.1	
Benzo (a) anthracene	5.96	0.40	0.033	mg/kg dry	8.12	<0.40	73.4	59.8-102	3.48	19.6	
Benzo (a) pyrene	5.93	0.40	0.033	mg/kg dry	8.12	<0.40	73.1	57.2-105	1.97	19.4	
Chrysene	5.94	0.40	0.040	mg/kg dry	8.12	<0.40	73.1	59.2-102	2.34	19.6	
Fluoranthene	5.65	0.40	0.029	mg/kg dry	8.12	<0.40	69.5	50.4-108	1.31	21	
Fluorene	5.62	0.40	0.022	mg/kg dry	8.12	<0.40	69.2	57.8-94.4	0.775	15.8	
N-Nitrosodi-n-propylamine	5.71	0.40	0.030	mg/kg dry	8.12	<0.40	70.3	46.2-96.2	1.70	17.1	
Pentachlorophenol	5.31	0.81	0.12	mg/kg dry	8.12	<0.81	65.4	53.6-80.4	3.39	22.4	
Phenanthrene	5.78	0.40	0.023	mg/kg dry	8.12	<0.40	71.2	58.4-97.5	0.804	14.3	
Phenol	5.32	0.81	0.069	mg/kg dry	8.12	<0.81	65.6	44-88.5	2.30	21.5	
Surrogate: 2,4,6-Tribromophenol	6.22			mg/kg dry	8.12		76.6	47.2-108			
Surrogate: 2-Fluorobiphenyl	5.21			mg/kg dry	8.12		64.2	53.2-85.1			
Surrogate: 2-Fluorophenol	5.42			mg/kg dry	8.12		66.8	48.5-90.1			
Surrogate: Nitrobenzene-d5	5.59			mg/kg dry	8.12		68.8	49.1-86.9			
Surrogate: Phenol-d6	5.96			mg/kg dry	8.12		73.4	47.6-99.6			
Surrogate: Terphenyl-d14	5.48			mg/kg dry	8.12		67.6	43.6-112			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Neppl	Work Order #: 0904032 Date Reported: 09/28/09
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Notes and Definitions

M2 Matrix spike recovery was low, the associated blank spike recovery was acceptable.
J Parameter was present between the MDL and RL and should be considered an estimated value
< Less than value listed
dry Sample results reported on a dry weight basis
NA Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL Method Detection Limit
RL Reporting Limit
RPD Relative Percent Difference
LCS Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS Matrix Spike = Laboratory Fortified Matrix (LFM)

LEGEND

Technical Services, Inc.

www.legend-group.com

88 Empire Drive
 St Paul, MN 55103
 Tel: 651-642-1150
 Fax: 651-642-1239

Chain of Custody
 4700 West 77th Street
 Minneapolis, MN 55435-4803
 (952) 832-2600

Project Number: 2319-BOS.07 SIRI 300

Project Name: WMA SSI/R

Sample Origin: State M (use two letter postal state abbreviation)

COC Number: NO 29018

Location	Start Depth	Stop Depth	Depth Unit (in./ft. or in.)	Matrix			Collection Time (hh:mm)	Collection Date (mm/dd/yyyy)	On Ice?	Relinquished By	Relinquished Date	Date	Time
				Soil	Water	Other							
1. SOCH-GP2(-3)	1	3	ft	X	X	X	0915	9-11-09	Y	WJ Conduite	9/14/09	1000	
2. SOCH-GP3(-3)	1	3	ft	X	X	X	1000	9-11-09	Y				
3. SOCH-GP3 (Dup)	---	---	---	X	X	X	1115	9-11-09	Y				
4. FBH (Groundwater)	---	---	---	X	X	X	1200	9-11-09	Y				
5. FB-2 (leapside)	---	---	---	X	X	X	1205	9-11-09	Y				

- Common Parameter/Container - Preservation Key**
- #1 - Volatile Organics = BTEX, GRO, TPH, 8260 Full List
 - #2 - Semivolatile Organics = PAHs, PCP, Dioxins, 8270 Full List, Herbicides/Pesticides/PCBs
 - #3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
 - #4 - Nutrients = COD, TOC, Phosphorus, Ammonia, Nitrogen, TKN

Relinquished By: WJ Conduite
 Relinquished Date: 9/14/09
 Date: 9/14/09
 Time: 13:15

Received By: [Signature]
 Date: 9/14/09
 Time: 13:15

Air Bill Number: _____
 Distribution: White-Original Accompanies Shipment to Lab, Yellow - Field Copy, Pink - Lab Coordinator

PR - study sent, 8.7°C

HLG'S TOP FORMS/CHAIN OF CUSTODY FORM 2009 HLG Rev. 09/10/09

Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV	Minnesota SRV	Minnesota Tier II Industrial SRV
Metals										
Antimony	7440-36-0	Soil/Solid	6010B	0.0055	0.50	mg/kg	--	2.7	12	100
Arsenic	7440-38-2	Soil/Solid	6010B	0.10	0.50	mg/kg	--	15.1	9	20
Beryllium	7440-41-7	Soil/Solid	6010B	0.011	0.25	mg/kg	--	1.4	55	230
Cadmium	7440-43-9	Soil/Solid	6010B	0.025	0.25	mg/kg	--	4.4	25	200
Chromium	7440-47-3	Soil/Solid	6010B	0.012	0.50	mg/kg	--	1000000 (8)	44000 (8)	100000 (8)
Copper	7440-50-8	Soil/Solid	6010B	0.070	1.0	mg/kg	--	400	100	9000
Lead	7439-92-1	Soil/Solid	6010B	0.034	1.0	mg/kg	--	525	300	700
Nickel	7440-02-0	Soil/Solid	6010B	0.014	0.25	mg/kg	--	88	550	2500
Selenium	7782-49-2	Soil/Solid	6010B	0.11	1.0	mg/kg	--	1.5	160	1300
Silver	7440-22-4	Soil/Solid	6010B	0.0090	0.25	mg/kg	--	3.9	160	1300
Thallium	7440-28-0	Soil/Solid	6010B	0.13	2.0	mg/kg	--	--	3	21
Zinc	7440-66-6	Soil/Solid	6010B	0.22	1.0	mg/kg	--	1500	8700	75000
Metals										
Antimony	7440-36-0	Water/Liquid	6020	0.046	0.500	ug/L	6	--	--	--
Arsenic	7440-38-2	Water/Liquid	6010B	2	10.000	ug/L	--	--	--	--
Beryllium	7440-41-7	Water/Liquid	6020	0.027	0.5000	ug/L	0.08	--	--	--
Cadmium	7440-43-9	Water/Liquid	6010B	0.099	1.0000	ug/L	4	--	--	--
Chromium	7440-47-3	Water/Liquid	6010B	0.24	10.000	ug/L	100 (5)	--	--	--
Copper	7440-50-8	Water/Liquid	6010B	1.4	20.000	ug/L	--	--	--	--
Lead	7439-92-1	Water/Liquid	6010B	0.68	3.0000	ug/L	--	--	--	--
Nickel	7440-02-0	Water/Liquid	6010B	0.28	5.0000	ug/L	100	--	--	--
Selenium	7782-49-2	Water/Liquid	6010B	2.2	20.000	ug/L	30	--	--	--
Silver	7440-22-4	Water/Liquid	6010B	0.18	5.0000	ug/L	30	--	--	--
Thallium	7440-28-0	Water/Liquid	6020	0.0081	0.500	ug/L	0.8	--	--	--
Zinc	7440-66-6	Water/Liquid	6010B	4.4	20.000	ug/L	2000	--	--	--
Mercury										
Mercury	7439-97-6	Soil/Solid	7471A	0.0031	0.10	mg/kg	--	1.6 C	0.5	1.5
Mercury	7439-97-6	Water/Liquid	7470A	0.00031	0.00020	mg/L	--	--	--	--
Nitrate-Nitrite Nitrogen as N (Braun)										
N+N Nitrogen as N	NA	Water/Liquid	SM4500-NO3-F	0.007	0.02	mg/L	10 (3)	--	--	--
Total Kjeldahl Nitrogen (Braun)										
TKN as N	NA	Water/Liquid	SM4500-NH3-C	0.17	0.5	mg/L	--	--	--	--
Perchlorate (TA)										
Perchlorate	NA	Water/Liquid	314	--	4	ug/L	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose (TA)	NA	Soil/Solid	353.2Mod	0.78	0.5	mg/kg	--	--	--	--
Nitrocellulose (TA)										
Nitrocellulose	NA	Water/Liquid	353.2Mod	0.124	0.5	mg/L	--	--	--	--
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	56	125
4,4'-DDE	72-55-9	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	40	80
4,4'-DDT	50-29-3	Soil/Solid	8081A	0.0020	0.040	mg/kg	--	--	15	88
a-Chlordane	5103-71-9	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Aldrin	309-00-2	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	1	2
alpha-BHC	319-84-6	Soil/Solid	8081A	0.0011	0.040	mg/kg	--	--	2	3.5
beta-BHC	319-85-7	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	7	15
delta-BHC	319-88-8	Soil/Solid	8081A	0.0015	0.040	mg/kg	--	--	--	--
Dieldrin	60-57-1	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	0.8	2
Endosulfan I	959-98-8	Soil/Solid	8081A	0.0013	0.040	mg/kg	--	--	--	--
Endosulfan II	891-86-1	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endosulfan sulfate	1031-07-6	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
Endrin	72-20-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	8	56
Endrin aldehyde	7421-93-4	Soil/Solid	8081A	0.0041	0.040	mg/kg	--	--	--	--
Endrin ketone	53494-70-5	Soil/Solid	8081A	0.0016	0.040	mg/kg	--	--	--	--
gamma-BHC (Lindane)	58-89-9	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	9	15
gamma-Chlordane	5596-34-7	Soil/Solid	8081A	0.0017	0.040	mg/kg	--	--	--	--
Heptachlor	76-44-8	Soil/Solid	8081A	0.0014	0.040	mg/kg	--	--	2	3.5
Heptachlor epoxide	1024-57-3	Soil/Solid	8081A	0.0012	0.040	mg/kg	--	--	0.4	3
Methoxychlor	72-43-5	Soil/Solid	8081A	0.0019	0.040	mg/kg	--	--	11	50
Toxaphene	8001-35-2	Soil/Solid	8081A	0.015	0.080	mg/kg	--	--	13	28
Organochlorine Pesticides										
4,4'-DDD	72-54-8	Water/Liquid	8081A	0.026	0.40	ug/L	1	--	--	--
4,4'-DDE	72-55-9	Water/Liquid	8081A	0.037	0.40	ug/L	--	--	--	--
4,4'-DDT	50-29-3	Water/Liquid	8081A	0.031	0.40	ug/L	1	--	--	--
a-Chlordane	5103-71-9	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Aldrin	309-00-2	Water/Liquid	8081A	0.036	0.40	ug/L	--	--	--	--
alpha-BHC	319-84-6	Water/Liquid	8081A	0.028	0.40	ug/L	--	--	--	--
beta-BHC	319-85-7	Water/Liquid	8081A	0.026	0.40	ug/L	--	--	--	--
delta-BHC	319-88-8	Water/Liquid	8081A	0.023	0.40	ug/L	--	--	--	--
Dieldrin	60-57-1	Water/Liquid	8081A	0.031	0.40	ug/L	0.006 (4)	--	--	--
Endosulfan I	959-98-8	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Endosulfan II	891-86-1	Water/Liquid	8081A	0.035	0.40	ug/L	--	--	--	--

P:\Mpls\23 MN\192319B05 UMore park environmental\WorkFiles\Phase II Investigation\WO#1 and #6\Phase II Work Plan\SSI\RI Work Plan\SAP\2.0\Part 2-QAPP\Tables\Table 1 of 7

Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MNH Health Risk Limits	Minnesota Tier SLV	Minnesota SRV	Minnesota Tier II Industrial SRV
Endosulfan sulfate	1031-07-8	Water/Liquid	8081A	0.034	0.40	ug/L	--	--	--	--
Erdrin	72-20-8	Water/Liquid	8081A	0.029	0.40	ug/L	--	--	--	--
Erdrin aldehyde	741-93-4	Water/Liquid	8081A	0.044	0.40	ug/L	--	--	--	--
Erdrin ketone	53494-70-5	Water/Liquid	8081A	0.031	0.40	ug/L	--	--	--	--
gamma-BHC (Lindane)	59-89-9	Water/Liquid	8081A	0.024	0.40	ug/L	--	--	--	--
gamma-Chlordane	5566-34-7	Water/Liquid	8081A	0.030	0.40	ug/L	--	--	--	--
Heptachlor	76-44-8	Water/Liquid	8081A	0.028	0.40	ug/L	0.08	--	--	--
Heptachlor epoxide	1024-57-3	Water/Liquid	8081A	0.030	0.40	ug/L	0.04	--	--	--
Methoxychlor	72-43-5	Water/Liquid	8081A	0.032	0.40	ug/L	--	--	--	--
Toxaphene	8001-35-2	Water/Liquid	8081A	0.069	1.00	ug/L	0.3	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Propachlor	1918-16-7	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Ethalfuratin	55283-68-6	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Desopropylatrazine	1007-28-9	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Trifluralin	1582-09-8	Soil/Solid	8270C	0.014	0.04	mg/kg	--	--	--	--
Desethylatrazine	6190-65-4	Soil/Solid	8270C	0.011	0.04	mg/kg	--	--	--	--
Phorate	298-02-2	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Prometon	1610-18-0	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Simazine	122-34-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Atrazine	1912-24-9	Soil/Solid	8270C	0.0100	0.04	mg/kg	--	--	--	--
Propazine	139-40-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Terbufos	13071-79-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	0.6	3.5
Fonofos	644-22-9	Soil/Solid	8270C	0.0040	0.04	mg/kg	--	--	--	--
Triallate	2303-17-5	Soil/Solid	8270C	0.0050	0.04	mg/kg	--	--	--	--
Metribuzin	21087-64-9	Soil/Solid	8270C	0.0090	0.04	mg/kg	--	--	--	--
Dimethenamid	87674-69-8	Soil/Solid	8270C	0.0060	0.04	mg/kg	--	--	--	--
Acetochlor	34265-82-1	Soil/Solid	8270C	0.010	0.04	mg/kg	--	--	--	--
Alachlor	15972-80-8	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Cyanazine	21725-46-2	Soil/Solid	8270C	0.0080	0.04	mg/kg	--	--	--	--
Metolachlor	51218-45-2	Soil/Solid	8270C	0.0030	0.04	mg/kg	--	--	435	3300
Chlorpyrifos	2921-88-2	Soil/Solid	8270C	0.0070	0.04	mg/kg	--	--	--	--
Pendimethalin	40487-42-1	Soil/Solid	8270C	0.015	0.04	mg/kg	--	--	--	--
MDA List 1 Pesticides (Braun)										
EPTC	759-94-4	Water/Liquid	8270C	0.22	0.50	ug/L	200	--	--	--
Propachlor	1918-16-7	Water/Liquid	8270C	0.14	0.50	ug/L	--	--	--	--
Ethalfuratin	55283-68-6	Water/Liquid	8270C	0.47	0.50	ug/L	300 (1)	--	--	--
Desopropylatrazine	1007-28-9	Water/Liquid	8270C	0.26	0.50	ug/L	--	--	--	--
Trifluralin	1582-09-8	Water/Liquid	8270C	0.21	0.50	ug/L	5 (1)	--	--	--
Desethylatrazine	6190-65-4	Water/Liquid	8270C	0.29	0.50	ug/L	--	--	--	--
Phorate	298-02-2	Water/Liquid	8270C	0.59	1.00	ug/L	1 (1)	--	--	--
Prometon	1610-18-0	Water/Liquid	8270C	0.29	0.50	ug/L	100	--	--	--
Simazine	122-34-9	Water/Liquid	8270C	0.32	0.50	ug/L	4 (3)	--	--	--
Atrazine	1912-24-9	Water/Liquid	8270C	0.24	0.50	ug/L	3 (3)	--	--	--
Propazine	139-40-2	Water/Liquid	8270C	0.21	0.50	ug/L	10 (1)	--	--	--
Terbufos	13071-79-9	Water/Liquid	8270C	0.54	1.00	ug/L	0.2 (1)	--	--	--
Fonofos	644-22-9	Water/Liquid	8270C	0.30	0.50	ug/L	10 (1)	--	--	--
Triallate	2303-17-5	Water/Liquid	8270C	0.34	0.50	ug/L	9 (1)	--	--	--
Metribuzin	21087-64-9	Water/Liquid	8270C	0.35	0.50	ug/L	200	--	--	--
Dimethenamid	87674-69-8	Water/Liquid	8270C	0.24	0.50	ug/L	40 (1)	--	--	--
Acetochlor	34265-82-1	Water/Liquid	8270C	0.25	0.50	ug/L	9 (4)	--	--	--
Alachlor	15972-80-8	Water/Liquid	8270C	0.19	0.50	ug/L	5 (4)	--	--	--
Cyanazine	21725-46-2	Water/Liquid	8270C	0.48	0.50	ug/L	1	--	--	--
Metolachlor	51218-45-2	Water/Liquid	8270C	0.28	0.50	ug/L	300 (4)	--	--	--
Chlorpyrifos	2921-88-2	Water/Liquid	8270C	0.34	0.50	ug/L	20 (1)	--	--	--
Pendimethalin	40487-42-1	Water/Liquid	8270C	0.25	0.50	ug/L	--	--	--	--
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
MCPA	94-74-6	Soil/Solid	8270C	0.014	0.50	mg/kg	--	16	--	110
2,4-D	94-75-7	Soil/Solid	8270C	0.012	0.50	mg/kg	--	285	--	2200
Trichlopyr	55336-06-3	Soil/Solid	8270C	0.008	0.50	mg/kg	--	--	--	--
Pentachlorophenol	87-86-6	Soil/Solid	8270C	0.007	0.50	mg/kg	--	80	--	120
2,4,5-T.P.	93-72-1	Soil/Solid	8270C	0.007	0.50	mg/kg	--	--	--	--
2,4,5-T	93-76-5	Soil/Solid	8270C	0.009	0.50	mg/kg	--	290	--	2150
Dinoseb	88-85-7	Soil/Solid	8270C	0.005	0.50	mg/kg	--	--	--	--
2,4-D.B.	94-82-6	Soil/Solid	8270C	0.011	0.50	mg/kg	--	226	--	1750
Bentazone	25057-89-0	Soil/Solid	8270C	0.009	0.50	mg/kg	--	--	--	--
Picloram	1918-02-1	Soil/Solid	8270C	0.011	0.50	mg/kg	--	2000	--	15000
MDA List 2 Pesticides (Braun)										
Dicamba	1918-00-9	Water/Liquid	8270C	0.38	0.50	ug/L	200	--	--	--

Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Level	Minnesota Tier SLV	Minnesota SRV	Minnesota Tier II Industrial SRV
MCPA	94-74-6	Water/Liquid	8270C	0.29	0.30	ug/L	--	--	--	--
2,4-D	94-75-7	Water/Liquid	8270C	0.26	0.50	ug/L	70	--	--	--
Trichlorpyr	55336-06-3	Water/Liquid	8270C	0.41	0.50	ug/L	300 (1)	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.39	0.50	ug/L	1 (3)	--	--	--
2,4,5-T-P	93-72-1	Water/Liquid	8270C	0.28	0.50	ug/L	50 (3)	--	--	--
2,4,5-T	93-76-5	Water/Liquid	8270C	0.31	0.50	ug/L	--	--	--	--
Dinoseb	68-65-7	Water/Liquid	8270C	0.34	0.50	ug/L	7 (1)	--	--	--
2,4-D-B	94-82-6	Water/Liquid	8270C	0.15	0.50	ug/L	60 (1)	--	--	--
Bentazone	25057-89-0	Water/Liquid	8270C	0.22	0.50	ug/L	200 (1)	--	--	--
Picloram	1918-02-1	Water/Liquid	8270C	0.25	0.50	ug/L	500	--	--	--
PCBs										
Aroclor 1016	12674-11-2	Soil/Solid	8082	0.017	0.20	mg/kg	--	--	--	--
Aroclor 1221	11104-26-2	Soil/Solid	8082	0.039	0.20	mg/kg	--	--	--	--
Aroclor 1232	11141-16-5	Soil/Solid	8082	0.019	0.20	mg/kg	--	--	--	--
Aroclor 1242	53469-21-9	Soil/Solid	8082	0.016	0.20	mg/kg	--	--	--	--
Aroclor 1248	12672-29-6	Soil/Solid	8082	0.0078	0.20	mg/kg	--	--	--	--
Aroclor 1254	11097-69-1	Soil/Solid	8082	0.0071	0.20	mg/kg	--	--	--	--
Aroclor 1260	11096-82-5	Soil/Solid	8082	0.015	0.20	mg/kg	--	--	--	--
PCBs - Water/Liquid										
Aroclor 1016	12674-11-2	Water/Liquid	8082	0.41	2.0	ug/L	--	--	--	--
Aroclor 1221	11104-26-2	Water/Liquid	8082	0.36	2.0	ug/L	--	--	--	--
Aroclor 1232	11141-16-5	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1242	53469-21-9	Water/Liquid	8082	0.58	2.0	ug/L	--	--	--	--
Aroclor 1248	12672-29-6	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1254	11097-69-1	Water/Liquid	8082	0.25	2.0	ug/L	--	--	--	--
Aroclor 1260	11096-82-5	Water/Liquid	8082	0.32	2.0	ug/L	--	--	--	--
VOCs - Soil/Solid										
1,1,1,2-Tetrachloroethane	830-20-6	Soil/Solid	8260B	0.019	0.25	mg/kg	--	1.4	31	51
1,1,1-Trichloroethane	71-55-6	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	3.5	140	472
1,1,2,2-Tetrachloroethane	79-34-5	Soil/Solid	8260B	0.012	0.25	mg/kg	--	0.005	3.5	6.5
1,1,2-Trichloroethane	79-00-5	Soil/Solid	8260B	0.022	0.25	mg/kg	--	0.010	9	14
1,1,2-Trichloroethane	76-13-1	Soil/Solid	8260B	0.052	0.25	mg/kg	--	2580	3745	5430
1,1-Dichloroethane	78-34-3	Soil/Solid	8260B	0.013	0.25	mg/kg	--	0.18	34	65
1,1-Dichloroethane	75-35-4	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.025	20	60
1,1-Dichloropropane	563-58-6	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	--	--
1,2,3-Trichlorobenzene	87-61-6	Soil/Solid	8260B	0.063	0.50	mg/kg	--	--	--	--
1,2,3-Trichloropropane	96-18-4	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.31	200	965
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8260B	0.052	0.50	mg/kg	--	0.35	200	965
1,2,4-Trimethylbenzene	95-63-6	Soil/Solid	8260B	0.013	0.25	mg/kg	--	--	8	25
1,2-Dibromo-3-chloropropane	96-12-6	Soil/Solid	8260B	0.079	0.50	mg/kg	--	0.001	--	--
1,2-Dibromochloroethane (EDB)	106-93-4	Soil/Solid	8260B	0.0656	0.25	mg/kg	--	0.00001	0.3	0.5
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8260B	0.0055	0.25	mg/kg	--	8.1	26	75
1,2-Dichloroethane	107-06-2	Soil/Solid	8260B	0.030	0.25	mg/kg	--	0.010	4	6
1,2-Dichloropropane	78-87-5	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.011	4	6
1,3,5-Trimethylbenzene	108-67-6	Soil/Solid	8260B	0.0077	0.25	mg/kg	--	--	3	10
1,3-Dichlorobenzene	541-73-1	Soil/Solid	8260B	0.015	0.25	mg/kg	--	4.2	26	200
1,3-Dichloropropane	142-28-9	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.13	30	50
2,2-Dichloropropane	594-20-7	Soil/Solid	8260B	0.034	0.50	mg/kg	--	--	--	--
2-Butanone	78-93-3	Soil/Solid	8260B	0.069	2.0	mg/kg	--	--	5600	19000
2-Chlorotoluene	95-49-8	Soil/Solid	8260B	0.016	0.25	mg/kg	--	--	436	436
4-Chlorotoluene	106-43-4	Soil/Solid	8260B	0.015	0.25	mg/kg	--	--	--	--
Acetone	67-64-1	Soil/Solid	8260B	0.16	2.0	mg/kg	--	0.7	340	1000
Allyl chloride	107-05-1	Soil/Solid	8260B	0.016	0.50	mg/kg	--	0.032	--	--
Benzene	71-43-2	Soil/Solid	8260B	0.0070	0.25	mg/kg	--	0.034	6	10
Bromobenzene	108-86-1	Soil/Solid	8260B	0.017	0.25	mg/kg	--	--	--	--
Bromochloromethane	74-97-5	Soil/Solid	8260B	0.021	0.25	mg/kg	--	0.15	--	--
Bromodichloromethane	75-27-4	Soil/Solid	8260B	0.020	0.25	mg/kg	--	0.013	10	17
Bromoform	75-25-2	Soil/Solid	8260B	0.015	0.50	mg/kg	--	0.14	370	650
Bromomethane	74-83-9	Soil/Solid	8260B	0.012	0.50	mg/kg	--	0.5	0.7	2
Carbon tetrachloride	56-23-5	Soil/Solid	8260B	0.018	0.25	mg/kg	--	0.023	0.3	0.9
Chlorobenzene	108-90-7	Soil/Solid	8260B	0.011	0.25	mg/kg	--	1.1	11	32
Chloroethane	75-00-3	Soil/Solid	8260B	0.045	0.25	mg/kg	--	--	1000	3000
Chloroform	67-66-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.17	2.5	4
Chloromethane	74-87-3	Soil/Solid	8260B	0.017	0.25	mg/kg	--	0.008	6	23
cis-1,2-Dichloroethane	156-58-2	Soil/Solid	8260B	0.016	0.25	mg/kg	--	0.14	8	22
cis-1,3-Dichloropropene	10061-01-5	Soil/Solid	8260B	0.0098	0.25	mg/kg	--	0.005 M	--	--
Dibromochloromethane	124-48-1	Soil/Solid	8260B	0.014	0.25	mg/kg	--	0.03	12	20
Dibromomethane	74-95-3	Soil/Solid	8260B	0.021	0.25	mg/kg	--	--	260	1850
Dichlorodifluoromethane	75-71-8	Soil/Solid	8260B	0.035	0.50	mg/kg	--	38	16	50
Dichlorofluoromethane	75-43-4	Soil/Solid	8260B	0.014	0.25	mg/kg	--	--	--	--
Ethyl ether	60-29-7	Soil/Solid	8260B	0.017	0.50	mg/kg	--	1.2	--	--
Ethylbenzene	100-41-4	Soil/Solid	8260B	0.011	0.25	mg/kg	--	4.7	200	200
Hexachlorobutadiene	87-68-3	Soil/Solid	8260B	0.11	1.0	mg/kg	--	25	6	37
Isopropylbenzene	98-82-8	Soil/Solid	8260B	0.019	0.25	mg/kg	--	18	30	87

Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan: SS/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier SLV	Minnesota SRV	Minnesota Tier Industrial SRV
m,p-Xylene	108-38-3/ 106-42-3	Soil/Solid	8260B	0.024	0.50	mg/kg	—	45 M	45 M	130 M
Methyl isobutyl ketone	108-10-1	Soil/Solid	8260B	0.031	0.50	mg/kg	—	0.42	1700	9000
Methyl tert-butyl ether	1634-04-4	Soil/Solid	8260B	0.018	0.25	mg/kg	—	0.027	—	—
Methylene chloride	75-09-2	Soil/Solid	8260B	0.043	1.0	mg/kg	—	0.068	97	158
Naphthalene	91-20-3	Soil/Solid	8260B	0.060	0.50	mg/kg	—	7.5	10	28
n-Butylbenzene	104-51-8	Soil/Solid	8260B	0.012	0.25	mg/kg	—	—	30	92
n-Propylbenzene	103-65-1	Soil/Solid	8260B	0.013	0.25	mg/kg	—	—	30	93
o-Xylene	95-47-6	Soil/Solid	8260B	0.015	0.25	mg/kg	—	—	—	—
p-Isopropyltoluene	95-87-6	Soil/Solid	8260B	0.014	0.25	mg/kg	—	45 M	45 M	130 M
sec-Butylbenzene	135-96-8	Soil/Solid	8260B	0.012	0.25	mg/kg	—	—	25	70
Styrene	100-42-5	Soil/Solid	8260B	0.012	0.25	mg/kg	—	1.9	210	600
tert-Butylbenzene	98-06-6	Soil/Solid	8260B	0.0073	0.25	mg/kg	—	—	30	90
Tetrachloroethene	127-18-4	Soil/Solid	8260B	0.016	0.25	mg/kg	—	0.068	72	131
Tetrahydrofuran	109-99-9	Soil/Solid	8260B	0.068	2.0	mg/kg	—	0.16	—	—
Toluene	108-88-3	Soil/Solid	8260B	0.0063	0.25	mg/kg	—	6.4	107	305
trans-1,2-Dichloroethene	156-60-5	Soil/Solid	8260B	0.016	0.25	mg/kg	—	—	17	33
trans-1,3-Dichloropropene	10081-02-6	Soil/Solid	8260B	0.013	0.25	mg/kg	—	0.005 M	—	—
Trichloroethene	79-01-6	Soil/Solid	8260B	0.013	0.25	mg/kg	—	0.14	29	46
Trichlorofluoromethane	75-69-4	Soil/Solid	8260B	0.035	0.25	mg/kg	—	22	67	195
Vinyl chloride	75-01-4	Soil/Solid	8260B	0.031	0.25	mg/kg	—	0.001	0.8	2.2
VOCS - Water/Liquid										
1,1,1,2-Tetrachloroethane	630-20-6	Water/Liquid	8260B	0.083	1.0	ug/L	70	—	—	—
1,1,1-Trichloroethane	71-55-8	Water/Liquid	8260B	0.058	1.0	ug/L	9000 (4)	—	—	—
1,1,2,2-Tetrachloroethane	79-34-5	Water/Liquid	8260B	0.084	1.0	ug/L	2	—	—	—
1,1,2-Trichloroethane	79-00-5	Water/Liquid	8260B	0.15	1.0	ug/L	3	—	—	—
1,1,2-Trichlorotrifluoroethane	78-13-1	Water/Liquid	8260B	0.10	1.0	ug/L	20000	—	—	—
1,1-Dichloroethane	75-34-3	Water/Liquid	8260B	0.094	1.0	ug/L	100 (7)	—	—	—
1,1-Dichloroethene	75-35-4	Water/Liquid	8260B	0.10	1.0	ug/L	200	—	—	—
1,1-Dichloropropane	583-59-8	Water/Liquid	8260B	0.099	1.0	ug/L	—	—	—	—
1,2,3-Trichlorobenzene	87-51-6	Water/Liquid	8260B	0.40	5.0	ug/L	—	—	—	—
1,2,3-Trichloropropane	96-16-4	Water/Liquid	8260B	0.13	2.5	ug/L	40	—	—	—
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8260B	0.52	5.0	ug/L	—	—	—	—
1,2,4-Trimethylbenzene	95-63-6	Water/Liquid	8260B	0.052	1.0	ug/L	—	—	—	—
1,2-Dibromo-3-chloropropane	96-12-8	Water/Liquid	8260B	1.2	5.0	ug/L	—	—	—	—
1,2-Dibromoethane (EDB)	106-93-4	Water/Liquid	8260B	0.10	2.5	ug/L	0.004	—	—	—
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8260B	0.12	1.0	ug/L	600	—	—	—
1,2-Dichloroethane	107-06-2	Water/Liquid	8260B	0.084	1.0	ug/L	4	—	—	—
1,2-Dichloropropane	78-67-5	Water/Liquid	8260B	0.13	1.0	ug/L	5	—	—	—
1,3,5-Trimethylbenzene	108-67-8	Water/Liquid	8260B	0.066	1.0	ug/L	100 (4) (6)	—	—	—
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8260B	0.094	1.0	ug/L	—	—	—	—
1,3-Dichloropropane	142-28-9	Water/Liquid	8260B	0.074	1.0	ug/L	—	—	—	—
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8260B	0.053	1.0	ug/L	10	—	—	—
2,2-Dichloropropane	594-20-7	Water/Liquid	8260B	0.23	5.0	ug/L	—	—	—	—
2-Butanone	78-93-3	Water/Liquid	8260B	0.58	20	ug/L	4000	—	—	—
2-Chlorotoluene	95-49-8	Water/Liquid	8260B	0.077	1.0	ug/L	—	—	—	—
4-Chlorotoluene	106-43-4	Water/Liquid	8260B	0.059	1.0	ug/L	—	—	—	—
Acetone	67-64-1	Water/Liquid	8260B	0.89	20	ug/L	700	—	—	—
Allyl chloride	107-05-1	Water/Liquid	8260B	0.28	5.0	ug/L	30	—	—	—
Benzene	71-43-2	Water/Liquid	8260B	0.047	1.0	ug/L	2 (4)	—	—	—
Bromobenzene	108-96-1	Water/Liquid	8260B	0.084	1.0	ug/L	—	—	—	—
Bromochloromethane	74-87-5	Water/Liquid	8260B	0.075	1.0	ug/L	—	—	—	—
Bromodichloromethane	75-27-4	Water/Liquid	8260B	0.13	1.0	ug/L	8	—	—	—
Bromoform	75-25-2	Water/Liquid	8260B	0.074	5.0	ug/L	40	—	—	—
Bromomethane	74-83-9	Water/Liquid	8260B	0.26	5.0	ug/L	10	—	—	—
Carbon tetrachloride	56-23-5	Water/Liquid	8260B	0.074	1.0	ug/L	3	—	—	—
Chlorobenzene	108-90-7	Water/Liquid	8260B	0.025	1.0	ug/L	100	—	—	—
Chloroethane	75-00-3	Water/Liquid	8260B	0.26	2.5	ug/L	—	—	—	—
Chloroform	67-56-3	Water/Liquid	8260B	0.058	1.0	ug/L	30 (4) (6)	—	—	—
Chloromethane	74-87-3	Water/Liquid	8260B	0.059	2.5	ug/L	—	—	—	—
cis-1,2-Dichloroethene	156-59-2	Water/Liquid	8260B	0.12	1.0	ug/L	50 (4)	—	—	—
cis-1,3-Dichloropropene	10081-01-5	Water/Liquid	8260B	0.11	1.0	ug/L	—	—	—	—
Dibromochloromethane	124-48-1	Water/Liquid	8260B	0.084	2.5	ug/L	10	—	—	—
Dibromomethane	74-95-3	Water/Liquid	8260B	0.14	2.5	ug/L	—	—	—	—
Dichlorodifluoromethane	75-71-8	Water/Liquid	8260B	0.39	5.0	ug/L	700 (4)	—	—	—
Dichlorofluoromethane	75-43-4	Water/Liquid	8260B	0.070	1.0	ug/L	—	—	—	—
Ethyl ether	60-29-7	Water/Liquid	8260B	0.10	5.0	ug/L	1000	—	—	—
Ethylbenzene	100-41-4	Water/Liquid	8260B	0.056	1.0	ug/L	700	—	—	—
Hexachlorobutadiene	87-68-3	Water/Liquid	8260B	0.58	10	ug/L	1	—	—	—
Isopropylbenzene	98-82-8	Water/Liquid	8260B	0.068	1.0	ug/L	300	—	—	—
m,p-Xylene	108-38-3	106-42-3	Water/Liquid	8260B	0.14	2.0	ug/L	10000 M	—	—
Methyl isobutyl ketone	108-10-1	Water/Liquid	8260B	0.13	5.0	ug/L	300	—	—	—
Methyl tert-butyl ether	1634-04-4	Water/Liquid	8260B	0.079	1.0	ug/L	—	—	—	—

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Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier 1 SLV ^a	Minnesota Tier 2 SLV ^b	Minnesota Tier 3 Industrial SRV
Methylene chloride	75-09-2	Water/Liquid	8260B	0.29	5.0	ug/L	5 (3)	--	--	--
Naphthalene	91-20-3	Water/Liquid	8260B	0.38	5.0	ug/L	300	--	--	--
n-Butylbenzene	104-81-6	Water/Liquid	8260B	0.094	2.5	ug/L	--	--	--	--
n-Propylbenzene	103-65-1	Water/Liquid	8260B	0.079	1.0	ug/L	--	--	--	--
o-Xylene	95-47-5	Water/Liquid	8260B	0.074	1.0	ug/L	10000 M	--	--	--
p-Isopropyltoluene	95-87-6	Water/Liquid	8260B	0.087	2.5	ug/L	--	--	--	--
sec-Butylbenzene	135-98-8	Water/Liquid	8260B	0.030	1.0	ug/L	--	--	--	--
Styrene	100-42-5	Water/Liquid	8260B	0.072	1.0	ug/L	--	--	--	--
tert-Butylbenzene	98-06-6	Water/Liquid	8260B	0.046	1.0	ug/L	--	--	--	--
Tetrachloroethene	127-18-4	Water/Liquid	8260B	0.10	1.0	ug/L	5 (3)	--	--	--
Tetrahydrofuran	109-99-9	Water/Liquid	8260B	0.76	20	ug/L	--	--	--	--
Toluene	108-88-3	Water/Liquid	8260B	0.036	1.0	ug/L	1000	--	--	--
trans-1,2-Dichloroethene	156-60-5	Water/Liquid	8260B	0.14	1.0	ug/L	100	--	--	--
trans-1,3-Dichloropropene	10081-02-6	Water/Liquid	8260B	0.082	1.0	ug/L	--	--	--	--
Trichloroethene	79-01-5	Water/Liquid	8260B	0.097	1.0	ug/L	5 (3)	--	--	--
Trichlorofluoromethane	75-69-4	Water/Liquid	8260B	0.17	1.0	ug/L	2000	--	--	--
Vinyl chloride	75-01-4	Water/Liquid	8260B	0.10	1.0	ug/L	0.2 (4)	--	--	--
Semi-Volatiles Organics										
1,2,4-Trichlorobenzene	120-82-1	Soil/Solid	8270C	0.020	0.33	mg/kg	--	0.31	200	985
1,2-Dichlorobenzene	95-50-1	Soil/Solid	8270C	0.012	0.33	mg/kg	--	8.1	26	75
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Soil/Solid	8270C	0.039	0.33	mg/kg	--	--	--	--
1,3-Dichlorobenzene	641-73-1	Soil/Solid	8270C	0.014	0.33	mg/kg	--	4.2	26	200
1,4-Dichlorobenzene	106-46-7	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.13	30	50
2,3,4,6-Tetrachlorophenol	58-90-2	Soil/Solid	8270C	0.072	0.67	mg/kg	--	--	696	3700
2,4,5-Trichlorophenol	95-95-4	Soil/Solid	8270C	0.039	0.67	mg/kg	--	--	1920	10600
2,4,6-Trichlorophenol	68-06-2	Soil/Solid	8270C	0.081	0.67	mg/kg	--	0.21	595	1060
2,4-Dichlorophenol	120-83-2	Soil/Solid	8270C	0.046	0.67	mg/kg	--	0.076	48	230
2,4-Dimethylphenol	105-67-9	Soil/Solid	8270C	0.079	0.67	mg/kg	--	0.34	390	1925
2,4-Dinitrophenol	51-28-5	Soil/Solid	8270C	0.064	0.67	mg/kg	--	0.014	--	--
2,4-Dinitrotoluene	121-14-2	Soil/Solid	8270C	0.044	0.33	mg/kg	--	0.001	50	365
2,6-Dichlorophenol	87-65-0	Soil/Solid	8270C	0.042	0.67	mg/kg	--	--	--	--
2,6-Dinitrotoluene	606-20-2	Soil/Solid	8270C	0.040	0.33	mg/kg	--	0.001	25	175
2-Chloronaphthalene	91-58-7	Soil/Solid	8270C	0.018	0.33	mg/kg	--	--	--	--
2-Chlorophenol	95-57-8	Soil/Solid	8270C	0.029	0.67	mg/kg	--	0.26	--	--
2-Methylnaphthalene	91-57-6	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	100	369
2-Methylphenol	95-48-7	Soil/Solid	8270C	0.019	0.67	mg/kg	--	0.064	75	352
2-Nitroaniline	88-74-4	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
2-Nitrophenol	88-75-5	Soil/Solid	8270C	0.040	0.67	mg/kg	--	0.60	--	--
3,3'-Dichlorobenzidine	91-94-1	Soil/Solid	8270C	0.21	1.6	mg/kg	--	0.36	25	50
3-Nitroaniline	99-09-2	Soil/Solid	8270C	0.041	0.33	mg/kg	--	--	--	--
4,6-Dinitro-2-methylphenol	534-62-1	Soil/Solid	8270C	0.097	0.67	mg/kg	--	--	--	--
4-Bromophenyl phenyl ether	101-55-3	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Chloro-3-methylphenol	59-50-7	Soil/Solid	8270C	0.075	0.67	mg/kg	--	--	--	--
4-Chloroaniline	106-47-8	Soil/Solid	8270C	0.022	0.67	mg/kg	--	--	--	--
4-Chlorophenyl phenyl ether	7005-72-3	Soil/Solid	8270C	0.024	0.33	mg/kg	--	--	--	--
4-Methylphenol	106-44-5	Soil/Solid	8270C	0.017	0.67	mg/kg	--	0.033	10	59
4-Nitroaniline	100-01-6	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	--	--
4-Nitrophenol	100-02-7	Soil/Solid	8270C	0.081	0.67	mg/kg	--	--	--	--
Acenaphthene	83-32-9	Soil/Solid	8270C	0.020	0.33	mg/kg	--	50	1200	5260
Acenaphthylene	208-96-8	Soil/Solid	8270C	0.031	0.33	mg/kg	--	--	--	--
Aniline	62-53-3	Soil/Solid	8270C	0.034	0.67	mg/kg	--	--	--	--
Anthracene	120-12-7	Soil/Solid	8270C	0.043	0.33	mg/kg	--	942	7880	45400
Benzenzidine	92-87-5	Soil/Solid	8270C	0.71	2.5	mg/kg	--	--	--	--
Benzo (a) anthracene	66-55-3	Soil/Solid	8270C	0.045	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (a) pyrene	50-32-6	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (b) fluoranthene	205-99-2	Soil/Solid	8270C	0.048	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzo (g,h,i) perylene	191-24-2	Soil/Solid	8270C	0.050	0.33	mg/kg	--	--	--	--
Benzo (k) fluoranthene	207-08-9	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Benzoic acid	65-85-0	Soil/Solid	8270C	0.036	0.33	mg/kg	--	30	50000	100000
Benzyl alcohol	100-51-6	Soil/Solid	8270C	0.11	0.67	mg/kg	--	--	8700	56000
Bis(2-chloroethoxy)methane	111-91-1	Soil/Solid	8270C	0.021	0.33	mg/kg	--	--	--	--
Bis(2-chloroethyl)ether	111-44-4	Soil/Solid	8270C	0.013	0.33	mg/kg	--	0.001	2.5	--
Bis(2-chloroisopropyl)ether	39638-32-9	Soil/Solid	8270C	0.017	0.33	mg/kg	--	--	--	--
Bis(2-ethoxy)phthalate	117-81-7	Soil/Solid	8270C	0.046	0.33	mg/kg	--	40	670	2100
Butyl benzyl phthalate	85-68-7	Soil/Solid	8270C	0.047	0.33	mg/kg	--	28	580	3700
Carbazole	86-74-8	Soil/Solid	8270C	0.044	0.33	mg/kg	--	--	700	1310
Chrysene	218-01-9	Soil/Solid	8270C	0.049	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenz (a,h) anthracene	53-70-3	Soil/Solid	8270C	0.053	0.33	mg/kg	--	10.2 T	2 T	3 T
Dibenzofuran	132-64-9	Soil/Solid	8270C	0.022	0.33	mg/kg	--	--	104	610

Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
Umore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits	Minnesota Tier 1 SLV *	Minnesota SRV **	Minnesota Tier II Industrial SRV ***
Diethyl phthalate	84-66-2	Soil/Solid	8270C	0.045	0.33	mg/kg	---	18	---	---
Dimethyl phthalate	131-11-3	Soil/Solid	8270C	0.043	0.33	mg/kg	---	172	---	---
Di-n-butyl phthalate	84-74-2	Soil/Solid	8270C	0.054	0.33	mg/kg	---	23	2440	16300
Di-n-octyl phthalate	117-54-0	Soil/Solid	8270C	0.056	0.33	mg/kg	---	---	520	3700
Fluoranthene	206-44-0	Soil/Solid	8270C	0.047	0.33	mg/kg	---	295	1090	5800
Fluorene	85-73-7	Soil/Solid	8270C	0.041	0.33	mg/kg	---	47	850	4120
Hexachlorobenzene	118-74-1	Soil/Solid	8270C	0.035	0.33	mg/kg	---	0.32	5	9
Hexachlorobutadiene	87-68-3	Soil/Solid	8270C	0.041	0.33	mg/kg	---	25	6	37
Hexachlorocyclopentadiene	77-47-4	Soil/Solid	8270C	0.030	0.33	mg/kg	---	0.050	2	6
Hexachloroethane	67-72-1	Soil/Solid	8270C	0.018	0.33	mg/kg	---	---	---	---
Indeno (1,2,3-cd) pyrene	193-39-5	Soil/Solid	8270C	0.042	0.33	mg/kg	---	10.2 T	2 T	3 T
Isophorone	78-59-1	Soil/Solid	8270C	0.018	0.33	mg/kg	---	0.16	---	---
Naphthalene	91-20-3	Soil/Solid	8270C	0.015	0.33	mg/kg	---	7.5	10	28
Nitrobenzene	98-95-3	Soil/Solid	8270C	0.014	0.33	mg/kg	---	---	---	---
N-Nitrosodimethylamine	62-75-9	Soil/Solid	8270C	0.028	0.33	mg/kg	---	0.82	---	---
N-Nitrosodi-n-propylamine	621-64-7	Soil/Solid	8270C	0.014	0.33	mg/kg	---	---	0.7	1.2
N-Nitrosodiphenylamine ***	86-30-6	Soil/Solid	8270C	0.045	0.33	mg/kg	---	0.88	1950	3720
Diphenylamine ***	122-39-4	Soil/Solid	8270C	---	---	---	---	---	---	---
Pentachlorophenol	87-86-5	Soil/Solid	8270C	0.081	0.67	mg/kg	---	0.034	80	120
Permethrin	85-01-8	Soil/Solid	8270C	0.026	0.33	mg/kg	---	---	---	---
Pyrene	108-95-2	Soil/Solid	8270C	0.027	0.67	mg/kg	---	7.8	1500	20203
2,4-Dinitrotoluene (DNT)	129-00-0	Soil/Solid	8270C	0.046	0.33	mg/kg	---	272	890	5800
2,6-Dinitrotoluene (DNT)	121-14-2	Soil/Solid	8270C	0.063	3.0	mg/kg	---	0.001	50	355
2,4-Dinitrotoluene (DNT)	608-20-2	Soil/Solid	8270C	0.13	3.0	mg/kg	---	0.001	25	175
Semi-Volatile Organics										
1,2,4-Trichlorobenzene	120-82-1	Water/Liquid	8270C	0.26	10	ug/L	---	---	---	---
1,2-Dichlorobenzene	95-50-1	Water/Liquid	8270C	0.21	10	ug/L	---	---	---	---
1,2-Diphenylhydrazine as Azobenzene	103-33-3	Water/Liquid	8270C	0.20	10	ug/L	600	---	---	---
1,3-Dichlorobenzene	541-73-1	Water/Liquid	8270C	0.21	10	ug/L	---	---	---	---
1,4-Dichlorobenzene	106-46-7	Water/Liquid	8270C	0.18	10	ug/L	10	---	---	---
2,3,4,5-Tetrachlorophenol	58-90-2	Water/Liquid	8270C	1.0	10	ug/L	---	---	---	---
2,4,5-Trichlorophenol	95-95-4	Water/Liquid	8270C	0.85	10	ug/L	---	---	---	---
2,4,6-Trichlorophenol	88-06-2	Water/Liquid	8270C	0.89	10	ug/L	30	---	---	---
2,4-Dichlorophenol	120-83-2	Water/Liquid	8270C	0.78	10	ug/L	20	---	---	---
2,4-Dimethylphenol	105-67-9	Water/Liquid	8270C	0.50	10	ug/L	100	---	---	---
2,4-Dinitrophenol	51-28-5	Water/Liquid	8270C	0.78	10	ug/L	0.5 (2)	---	---	---
2,4-Dinitrotoluene	121-14-2	Water/Liquid	8270C	0.49	10	ug/L	---	---	---	---
2,6-Dichlorophenol	87-65-0	Water/Liquid	8270C	0.78	10	ug/L	0.5 (2)	---	---	---
2,6-Dinitrotoluene	606-20-2	Water/Liquid	8270C	0.39	10	ug/L	---	---	---	---
2-Chloronaphthalene	91-68-7	Water/Liquid	8270C	0.20	10	ug/L	---	---	---	---
2-Chlorophenol	95-57-8	Water/Liquid	8270C	0.66	10	ug/L	30	---	---	---
2-Methylnaphthalene	81-57-6	Water/Liquid	8270C	0.82	10	ug/L	---	---	---	---
2-Methylphenol	95-48-7	Water/Liquid	8270C	0.77	10	ug/L	30	---	---	---
2-Nitroaniline	80-74-4	Water/Liquid	8270C	0.92	10	ug/L	---	---	---	---
2-Nitrophenol	88-75-5	Water/Liquid	8270C	1.0	10	ug/L	---	---	---	---
3,3'-Dichlorobenzidine	91-94-1	Water/Liquid	8270C	7.1	25	ug/L	0.8	---	---	---
3-Nitroaniline	99-09-2	Water/Liquid	8270C	0.95	10	ug/L	---	---	---	---
4,6-Dinitro-2-methylphenol	634-82-1	Water/Liquid	8270C	0.90	10	ug/L	---	---	---	---
4-Bromophenyl phenyl ether	101-55-3	Water/Liquid	8270C	0.19	10	ug/L	---	---	---	---
4-Chloro-3-methylphenol	89-50-7	Water/Liquid	8270C	0.79	10	ug/L	---	---	---	---
4-Chloroaniline	106-47-8	Water/Liquid	8270C	1.0	10	ug/L	---	---	---	---
4-Chlorophenol	106-48-9	Water/Liquid	8270C	NA	NA	ug/L	---	---	---	---
4-Chlorophenyl phenyl ether	7005-72-3	Water/Liquid	8270C	0.15	10	ug/L	---	---	---	---
4-Methylphenol	106-44-5	Water/Liquid	8270C	0.82	10	ug/L	3	---	---	---
4-Nitroaniline	100-01-6	Water/Liquid	8270C	0.93	10	ug/L	---	---	---	---
4-Nitrophenol	100-02-7	Water/Liquid	8270C	1.2	10	ug/L	---	---	---	---
Acenaphthene	83-32-9	Water/Liquid	8270C	0.15	10	ug/L	400	---	---	---
Acenaphthylene	208-96-8	Water/Liquid	8270C	0.17	10	ug/L	---	---	---	---
Aniline	62-53-3	Water/Liquid	8270C	0.97	10	ug/L	---	---	---	---
Anthracene	120-12-7	Water/Liquid	8270C	0.18	10	ug/L	2000	---	---	---
Benzidine	92-87-5	Water/Liquid	8270C	23	100	ug/L	---	---	---	---
Benzo (a) anthracene	56-55-3	Water/Liquid	8270C	0.18	10	ug/L	---	---	---	---
Benzo (a) pyrene	50-32-8	Water/Liquid	8270C	0.22	10	ug/L	---	---	---	---
Benzo (b) fluoranthene	205-99-2	Water/Liquid	8270C	0.18	10	ug/L	---	---	---	---
Benzo (g,h,i) perylene	191-24-2	Water/Liquid	8270C	0.24	10	ug/L	---	---	---	---
Benzo (k) fluoranthene	207-08-9	Water/Liquid	8270C	0.21	10	ug/L	---	---	---	---
Benzoic acid	65-85-0	Water/Liquid	8270C	0.75	10	ug/L	30000	---	---	---
Benzyl alcohol	100-51-6	Water/Liquid	8270C	0.66	10	ug/L	---	---	---	---
Bis(2-chloroethoxy)methane	111-91-1	Water/Liquid	8270C	0.21	10	ug/L	---	---	---	---

P:\Mpls23 MN192319B05 Umore park environmental\WorkFiles\Phase II Investigation\WO#1 and #6\Phase II Work Plan\SSI_RI Work Plan\SAPV2.0\Part 2-QAPPTables\Table 1 of 7

Table 1
Analytical Parameters, Methods and Quantitation Limits
Quality Assurance Project Plan, SSI/RI, SOCs 4 and 5
UMore Mining Area
Dakota County, Minnesota

Parameter	CAS Number	Matrix	Method (EPA unless noted otherwise)	Method Detection Limit	Reporting Limit	Test Unit	MDH Health Risk Limits ¹	Minnesota Tier I SLV ²	Minnesota SRV ³	Minnesota Tier II Industrial SRV ⁴
Bis(2-chloroethyl) ether	111-44-4	Water/Liquid	8270C	0.21	10	ug/L	0.3	--	--	--
Bis(2-chloroisopropyl) ether	39638-32-8	Water/Liquid	8270C	0.14	10	ug/L	--	--	--	--
Bis(2-ethylhexyl)phthalate	117-81-7	Water/Liquid	8270C	0.45	10	ug/L	20 (1)	--	--	--
Butyl benzyl phthalate	85-68-7	Water/Liquid	8270C	0.33	10	ug/L	100	--	--	--
Carbazole	86-74-8	Water/Liquid	8270C	0.24	10	ug/L	--	--	--	--
Chrysene	218-01-9	Water/Liquid	8270C	0.15	10	ug/L	--	--	--	--
Dibenz (a,h) anthracene	53-70-3	Water/Liquid	8270C	0.25	10	ug/L	--	--	--	--
Dibenzofuran	132-64-9	Water/Liquid	8270C	0.27	10	ug/L	--	--	--	--
Diethyl phthalate	84-66-2	Water/Liquid	8270C	0.32	10	ug/L	6000	--	--	--
Dimethyl phthalate	131-11-3	Water/Liquid	8270C	0.26	10	ug/L	70000	--	--	--
Di-n-butyl phthalate	84-74-2	Water/Liquid	8270C	0.33	10	ug/L	700	--	--	--
Di-n-octyl phthalate	117-84-0	Water/Liquid	8270C	0.42	10	ug/L	--	--	--	--
Fluoranthene	206-44-0	Water/Liquid	8270C	0.23	10	ug/L	300	--	--	--
Fluorene	86-73-7	Water/Liquid	8270C	0.16	10	ug/L	300	--	--	--
Hexachlorobenzene	118-74-1	Water/Liquid	8270C	0.15	10	ug/L	0.2	--	--	--
Hexachlorobutadiene	87-68-3	Water/Liquid	8270C	0.34	10	ug/L	1	--	--	--
Hexachlorocyclopentadiene	77-47-4	Water/Liquid	8270C	0.22	10	ug/L	--	--	--	--
Hexachloroethane	67-72-1	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
Indeno (1,2,3-cd) pyrene	193-39-5	Water/Liquid	8270C	0.19	10	ug/L	--	--	--	--
Isophthalene	78-59-1	Water/Liquid	8270C	0.23	10	ug/L	100	--	--	--
Naphthalene	91-20-3	Water/Liquid	8270C	0.19	10	ug/L	300	--	--	--
Nitrobenzene	98-95-3	Water/Liquid	8270C	0.26	10	ug/L	--	--	--	--
N-Nitrosodimethylamine	62-75-9	Water/Liquid	8270C	0.30	10	ug/L	--	--	--	--
N-Nitrosodi-n-propylamine	621-64-7	Water/Liquid	8270C	0.28	10	ug/L	--	--	--	--
N-Nitrosodiphenylamine ***	86-30-6	Water/Liquid	8270C	0.27	10	ug/L	70	--	--	--
Diphenylamine ***	122-39-4	Water/Liquid	8270C	--	--	--	--	--	--	--
Pentachlorophenol	87-86-5	Water/Liquid	8270C	0.99	10	ug/L	1 (3)	--	--	--
Phenanthrene	85-01-8	Water/Liquid	8270C	0.13	10	ug/L	--	--	--	--
Phenol	106-95-2	Water/Liquid	8270C	0.59	10	ug/L	4000	--	--	--
Pyrene	129-00-0	Water/Liquid	8270C	0.24	10	ug/L	200	--	--	--

Notes:

- M - the values with this notation indicate the limit is for all combined isomers of this compound
- T - the values with this notation represent the limit for the total carcinogenic PAHs as BaP
- C - Mercury as mercuric chloride
- (TA) - Legend Technical Services, Inc. will subcontract this analysis to Test America, West Sacramento, California.
- (Braun) - Legend Technical Services, Inc. will subcontract this analysis to Braun Intertec, Minneapolis, MN.
- (1) Not a HRL but a Health Based Value (HBV)
- (2) (SRL)-Specific Risk Level (water concentration which corresponds to a risk of 1E-5)
- (3) Not a HRL but an EPA Maximum Contaminant Level (MCL).
- (4) Value is representative of the lowest exposure duration published in the 2008 Health Risk Limits.
- (5) Value represents the criteria for Chromium, hexavalent.
- (6) Set at short-term HRL.
- (7) Not a HRL, but a Risk Assessment Advice (RAA).
- (8) Value represents the criteria for Chromium, Trivalent.
- 1 - Minnesota Department of Health, Health Risk Limit (HRL) unless noted otherwise.
- 2 - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Leaching Value (SLV)
- 3 - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Soil Reference Value (SRV)
- 4 - Minnesota Pollution Control Agency's Risk-based guidance for Soil - Tier II Industrial SRV.



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October 16, 2009

Ms. Kelly Neppl
Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Work Order Number: 0904320
RE: 23190B05.07

Enclosed are the results of analyses for samples received by the laboratory on 10/02/09. If you have any questions concerning this report, please feel free to contact me.

All samples will be retained by LEGEND, unless consumed in the analysis, for 30 days from the date of this report and then discarded unless other arrangements are made.

MDH Certification #027-123-295

Prepared by,
LEGEND TECHNICAL SERVICES, INC

Terri Olson
Client Manager II
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Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904320 Date Reported: 10/16/09
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WSW-207605	0904320-01	Water	09/29/09 11:55	10/02/09 16:00
MW-D3-007	0904320-02	Water	09/29/09 15:30	10/02/09 16:00
MW-E2-305	0904320-03	Water	09/29/09 17:35	10/02/09 16:00
MW-E2-009	0904320-04	Water	09/30/09 13:05	10/02/09 16:00
M-1	0904320-05	Water	10/02/09 00:00	10/02/09 16:00
FB-1	0904320-06	Water	09/29/09 18:20	10/02/09 16:00
MW-E2-012	0904320-07	Water	10/02/09 11:40	10/02/09 16:00

Shipping Container Information

Default Cooler Temperature (°C): 4.5

Received on ice: Yes Temperature blank was present Received on ice pack: No
 Received on melt water: No Ambient: No Acceptable (IH/ISO only): No
 Custody seals: No

Case Narrative:

MN Certification does not apply to dichlorofluoromethane, tetrahydrofuran, and 1,1,2-trichlorotrifluoroethane in the 8260B analysis or to carbazole in the 8270C analysis.

Diethyl phthalate was detected in the 8270 water batch B9J0602 method blank between the MDL and RL. It was not detected in the sample. An LCS/LCSD/MS were prepared and analyzed for the batch instead of the method specified LCS/MS/MSD. Insufficient sample was received to meet method QC requirements.

Beryllium recoveries in the MS/MSD samples for the 6020 batch B9J1409 were below laboratory control limits. Recoveries in the LCS/LCSD samples and the corresponding RPDs were within limits. The MS/MSD source sample was sample WSW-207605.

Barr Engineering Co.
4700 W 77th St
Minneapolis, MN 55435

Project: 23190B05.07
Project Number: 23190B05.07 SIRI 300
Project Manager: Ms. Kelly Nepl

Work Order #: 0904320
Date Reported: 10/16/09

DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-D3-007 (0904320-02) Water Sampled: 09/29/09 15:30 Received: 10/02/09 16:00										
Antimony	2.4	0.50	0.046	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Arsenic	<10	10	2.0	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9J1308	10/13/09	10/16/09	EPA 7470A (Dissolved)	
Nickel	<5.0	5.0	0.28	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Zinc	23	20	4.4	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	

MW-E2-305 (0904320-03) Water Sampled: 09/29/09 17:35 Received: 10/02/09 16:00										
Antimony	0.60	0.50	0.046	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Arsenic	<10	10	2.0	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9J1308	10/13/09	10/16/09	EPA 7470A (Dissolved)	
Nickel	<5.0	5.0	0.28	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Zinc	170	20	4.4	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	

MW-E2-009 (0904320-04) Water Sampled: 09/30/09 13:05 Received: 10/02/09 16:00										
Antimony	0.69	0.50	0.046	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Arsenic	<10	10	2.0	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904320 Date Reported: 10/16/09
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DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-E2-009 (0904320-04) Water Sampled: 09/30/09 13:05 Received: 10/02/09 16:00										
Beryllium	<0.027	0.50	0.027	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9J1308	10/13/09	10/16/09	EPA 7470A (Dissolved)	
Nickel	<5.0	5.0	0.28	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Zinc	<20	20	4.4	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
M-1 (0904320-05) Water Sampled: 10/02/09 00:00 Received: 10/02/09 16:00										
Antimony	0.078	0.50	0.046	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	J
Arsenic	<10	10	2.0	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9J1308	10/13/09	10/16/09	EPA 7470A (Dissolved)	
Nickel	<5.0	5.0	0.28	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Zinc	<20	20	4.4	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
FB-1 (0904320-06) Water Sampled: 09/29/09 18:20 Received: 10/02/09 16:00										
Antimony	0.89	0.50	0.046	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Arsenic	<10	10	2.0	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Beryllium	1.1	0.50	0.027	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	

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DISSOLVED METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-1 (0904320-06) Water Sampled: 09/29/09 18:20 Received: 10/02/09 16:00										
Copper	<20	20	1.4	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9J1308	10/13/09	10/16/09	EPA 7470A (Dissolved)	
Nickel	<5.0	5.0	0.28	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	1.1	0.50	0.0081	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Zinc	<20	20	4.4	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
MW-E2-012 (0904320-07) Water Sampled: 10/02/09 11:40 Received: 10/02/09 16:00										
Antimony	<0.046	0.50	0.046	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Arsenic	<10	10	2.0	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Cadmium	<1.0	1.0	0.099	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9J1308	10/13/09	10/16/09	EPA 7470A (Dissolved)	
Nickel	<5.0	5.0	0.28	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	<0.0081	0.50	0.0081	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020 (Dissolved)	
Zinc	<20	20	4.4	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B (Dissolved)	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Neppi	Work Order #: 0904320 Date Reported: 10/16/09
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TOTAL METALS ANALYSIS
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-207605 (0904320-01) Water Sampled: 09/29/09 11:55 Received: 10/02/09 16:00										
Antimony	<0.046	0.50	0.046	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020	
Arsenic	<10	10	2.0	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B	
Beryllium	<0.027	0.50	0.027	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020	M2
Cadmium	<1.0	1.0	0.099	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B	
Chromium	<10	10	0.24	ug/L	1	"	"	"	"	
Copper	<20	20	1.4	ug/L	1	"	"	"	"	
Lead	<3.0	3.0	0.68	ug/L	1	"	"	"	"	
Mercury	<0.20	0.20	0.018	ug/L	1	B9J1308	10/13/09	10/16/09	EPA 7470A	
Nickel	<5.0	5.0	0.28	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B	
Selenium	<20	20	2.2	ug/L	1	"	"	"	"	
Silver	<5.0	5.0	0.18	ug/L	1	"	"	"	"	
Thallium	0.082	0.50	0.0081	ug/L	1	B9J1409	10/14/09	10/16/09	EPA 6020	J
Zinc	270	20	4.4	ug/L	1	B9J1410	10/14/09	10/15/09	EPA 6010B	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904320 Date Reported: 10/16/09
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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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WSW-207605 (0904320-01) Water Sampled: 09/29/09 11:55 Received: 10/02/09 16:00

1,2,4-Trichlorobenzene	<0.18	9.3	0.18	ug/L	1	B9J0602	10/06/09	10/06/09	EPA 8270C	
1,2-Dichlorobenzene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
2,3,4,6-Tetrachlorophenol	<0.56	9.3	0.56	ug/L	1	"	"	"	"	
2,4,5-Trichlorophenol	<0.74	9.3	0.74	ug/L	1	"	"	"	"	
2,4,6-Trichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,4-Dimethylphenol	<1.5	9.3	1.5	ug/L	1	"	"	"	"	
2,4-Dinitrophenol	<0.93	9.3	0.93	ug/L	1	"	"	"	"	
2,4-Dinitrotoluene	<0.31	9.3	0.31	ug/L	1	"	"	"	"	
2,6-Dichlorophenol	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
2,6-Dinitrotoluene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
2-Chloronaphthalene	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
2-Chlorophenol	<0.42	9.3	0.42	ug/L	1	"	"	"	"	
2-Methylnaphthalene	<0.61	9.3	0.61	ug/L	1	"	"	"	"	
2-Methylphenol	<0.58	9.3	0.58	ug/L	1	"	"	"	"	
2-Nitroaniline	<0.67	9.3	0.67	ug/L	1	"	"	"	"	
2-Nitrophenol	<0.83	9.3	0.83	ug/L	1	"	"	"	"	
3,3'-Dichlorobenzidine	<6.8	23	6.8	ug/L	1	"	"	"	"	
3-Nitroaniline	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
4,6-Dinitro-2-methylphenol	<0.60	9.3	0.60	ug/L	1	"	"	"	"	
4-Bromophenyl phenyl ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
4-Chloro-3-methylphenol	<0.51	9.3	0.51	ug/L	1	"	"	"	"	
4-Chloroaniline	<2.1	9.3	2.1	ug/L	1	"	"	"	"	
4-Chlorophenyl phenyl ether	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
4-Methylphenol	<0.73	9.3	0.73	ug/L	1	"	"	"	"	
4-Nitroaniline	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
4-Nitrophenol	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Acenaphthene	<0.33	9.3	0.33	ug/L	1	"	"	"	"	
Acenaphthylene	<0.23	9.3	0.23	ug/L	1	"	"	"	"	
Aniline	<2.0	9.3	2.0	ug/L	1	"	"	"	"	
Anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzidine	<17	93	17	ug/L	1	"	"	"	"	
Benzo (a) anthracene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Benzo (a) pyrene	<0.27	9.3	0.27	ug/L	1	"	"	"	"	
Benzo (b) fluoranthene	<0.20	9.3	0.20	ug/L	1	"	"	"	"	
Benzo (g,h,i) perylene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	

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SVOC 8270C
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-207605 (0904320-01) Water Sampled: 09/29/09 11:55 Received: 10/02/09 16:00										
Benzo (k) fluoranthene	<0.29	9.3	0.29	ug/L	1	B9J0602	10/06/09	10/06/09	EPA 8270C	
Benzoic acid	<1.1	9.3	1.1	ug/L	1	"	"	"	"	
Benzyl alcohol	<0.50	9.3	0.50	ug/L	1	"	"	"	"	
Bis(2-chloroethoxy)methane	<0.17	9.3	0.17	ug/L	1	"	"	"	"	
Bis(2-chloroethyl)ether	<0.16	9.3	0.16	ug/L	1	"	"	"	"	
Bis(2-chloroisopropyl)ether	<0.18	9.3	0.18	ug/L	1	"	"	"	"	
Bis(2-ethylhexyl)phthalate	<0.40	9.3	0.40	ug/L	1	"	"	"	"	
Butyl benzyl phthalate	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Carbazole	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Chrysene	<0.25	9.3	0.25	ug/L	1	"	"	"	"	
Dibenz (a,h) anthracene	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dibenzofuran	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Diethyl phthalate	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Dimethyl phthalate	<0.22	9.3	0.22	ug/L	1	"	"	"	"	
Di-n-butyl phthalate	<0.26	9.3	0.26	ug/L	1	"	"	"	"	
Di-n-octyl phthalate	<0.35	9.3	0.35	ug/L	1	"	"	"	"	
Fluoranthene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Fluorene	<0.37	9.3	0.37	ug/L	1	"	"	"	"	
Hexachlorobenzene	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.24	9.3	0.24	ug/L	1	"	"	"	"	
Hexachlorocyclopentadiene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Hexachloroethane	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Indeno (1,2,3-cd) pyrene	<0.29	9.3	0.29	ug/L	1	"	"	"	"	
Isophorone	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Naphthalene	<0.34	9.3	0.34	ug/L	1	"	"	"	"	
Nitrobenzene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
N-Nitrosodimethylamine	<0.88	9.3	0.88	ug/L	1	"	"	"	"	
N-Nitrosodi-n-propylamine	<0.19	9.3	0.19	ug/L	1	"	"	"	"	
N-Nitrosodiphenylamine	<0.21	9.3	0.21	ug/L	1	"	"	"	"	
Pentachlorophenol	<0.55	9.3	0.55	ug/L	1	"	"	"	"	
Phenanthrene	<0.36	9.3	0.36	ug/L	1	"	"	"	"	
Phenol	<0.53	9.3	0.53	ug/L	1	"	"	"	"	
Pyrene	<0.44	9.3	0.44	ug/L	1	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	87.8			48.5-114 %		"	"	"	"	
Surrogate: 2-Fluorobiphenyl	75.3			41.7-98.4 %		"	"	"	"	
Surrogate: 2-Fluorophenol	50.5			30-93.5 %		"	"	"	"	
Surrogate: Nitrobenzene-d5	72.6			47.4-97.8 %		"	"	"	"	
Surrogate: Phenol-d6	45.3			30-91.5 %		"	"	"	"	
Surrogate: Terphenyl-d14	61.5			30-108 %		"	"	"	"	

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VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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WSW-207605 (0904320-01) Water Sampled: 09/29/09 11:55 Received: 10/02/09 16:00

1,1,1,2-Tetrachloroethane	<0.28	1.0	0.28	ug/L	1	B9J0608	10/06/09	10/07/09	EPA 8260B	
1,1,1-Trichloroethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
1,1,2-Trichloroethane	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	<0.28	1.0	0.28	ug/L	1	"	"	"	"	
1,1-Dichloroethane	<0.11	1.0	0.11	ug/L	1	"	"	"	"	
1,1-Dichloroethene	<0.12	1.0	0.12	ug/L	1	"	"	"	"	
1,1-Dichloropropene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,2,3-Trichlorobenzene	<0.47	5.0	0.47	ug/L	1	"	"	"	"	
1,2,3-Trichloropropane	<0.24	2.5	0.24	ug/L	1	"	"	"	"	
1,2,4-Trichlorobenzene	<0.32	5.0	0.32	ug/L	1	"	"	"	"	
1,2,4-Trimethylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.60	5.0	0.60	ug/L	1	"	"	"	"	
1,2-Dibromoethane (EDB)	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
1,2-Dichlorobenzene	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
1,2-Dichloroethane	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,2-Dichloropropane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3,5-Trimethylbenzene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
1,3-Dichlorobenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
1,3-Dichloropropane	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
1,4-Dichlorobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
2,2-Dichloropropane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
2-Butanone	<0.67	20	0.67	ug/L	1	"	"	"	"	
2-Chlorotoluene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
4-Chlorotoluene	<0.14	1.0	0.14	ug/L	1	"	"	"	"	
Acetone	<2.8	20	2.8	ug/L	1	"	"	"	"	
Allyl chloride	<0.76	5.0	0.76	ug/L	1	"	"	"	"	
Benzene	<0.093	1.0	0.093	ug/L	1	"	"	"	"	
Bromobenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Bromochloromethane	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Bromodichloromethane	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Bromoform	<0.50	5.0	0.50	ug/L	1	"	"	"	"	
Bromomethane	<0.95	5.0	0.95	ug/L	1	"	"	"	"	
Carbon tetrachloride	<0.16	1.0	0.16	ug/L	1	"	"	"	"	
Chlorobenzene	<0.15	1.0	0.15	ug/L	1	"	"	"	"	
Chloroethane	<0.46	2.5	0.46	ug/L	1	"	"	"	"	
Chloroform	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Chloromethane	<0.37	2.5	0.37	ug/L	1	"	"	"	"	
cis-1,2-Dichloroethene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	

Barr Engineering Co.
 4700 W 77th St
 Minneapolis, MN 55435

Project: 23190B05.07
 Project Number: 23190B05.07 SIRI 300
 Project Manager: Ms. Kelly Nepl

Work Order #: 0904320
 Date Reported: 10/16/09

VOC 8260B
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WSW-207605 (0904320-01) Water Sampled: 09/29/09 11:55 Received: 10/02/09 16:00										
cis-1,3-Dichloropropene	<0.16	1.0	0.16	ug/L	1	B9J0608	10/06/09	10/07/09	EPA 8260B	
Dibromochloromethane	<0.50	2.5	0.50	ug/L	1	"	"	"	"	
Dibromomethane	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
Dichlorodifluoromethane	<0.58	5.0	0.58	ug/L	1	"	"	"	"	
Dichlorofluoromethane	<0.31	1.0	0.31	ug/L	1	"	"	"	"	
Ethyl ether	<0.53	5.0	0.53	ug/L	1	"	"	"	"	
Ethylbenzene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
Hexachlorobutadiene	<0.76	10	0.76	ug/L	1	"	"	"	"	
Isopropylbenzene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
m,p-Xylene	<0.42	2.0	0.42	ug/L	1	"	"	"	"	
Methyl isobutyl ketone	<1.1	5.0	1.1	ug/L	1	"	"	"	"	
Methyl tert-butyl ether	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
Methylene chloride	<0.65	5.0	0.65	ug/L	1	"	"	"	"	
Naphthalene	<0.40	5.0	0.40	ug/L	1	"	"	"	"	
n-Butylbenzene	<0.32	2.5	0.32	ug/L	1	"	"	"	"	
n-Propylbenzene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
o-Xylene	<0.18	1.0	0.18	ug/L	1	"	"	"	"	
p-Isopropyltoluene	<0.30	2.5	0.30	ug/L	1	"	"	"	"	
sec-Butylbenzene	<0.22	1.0	0.22	ug/L	1	"	"	"	"	
Styrene	<0.13	1.0	0.13	ug/L	1	"	"	"	"	
tert-Butylbenzene	<0.19	1.0	0.19	ug/L	1	"	"	"	"	
Tetrachloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Tetrahydrofuran	<0.77	20	0.77	ug/L	1	"	"	"	"	
Toluene	<0.21	1.0	0.21	ug/L	1	"	"	"	"	
trans-1,2-Dichloroethene	<0.29	1.0	0.29	ug/L	1	"	"	"	"	
trans-1,3-Dichloropropene	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Trichloroethene	<0.20	1.0	0.20	ug/L	1	"	"	"	"	
Trichlorofluoromethane	<0.17	1.0	0.17	ug/L	1	"	"	"	"	
Vinyl chloride	<0.087	1.0	0.087	ug/L	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	115			80-121 %		"	"	"	"	
Surrogate: Dibromofluoromethane	108			79.9-121 %		"	"	"	"	
Surrogate: Toluene-d8	103			80-120 %		"	"	"	"	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904320 Date Reported: 10/16/09
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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J1308 - EPA 245.1/7470A Digestion											
Blank (B9J1308-BLK1) Prepared: 10/13/09 Analyzed: 10/16/09											
Mercury	< 0.20	0.20	0.018	ug/L							
LCS (B9J1308-BS1) Prepared: 10/13/09 Analyzed: 10/16/09											
Mercury	1.94	0.20	0.018	ug/L	2.00		97.0	80-120			
LCS Dup (B9J1308-BSD1) Prepared: 10/13/09 Analyzed: 10/16/09											
Mercury	1.88	0.20	0.018	ug/L	2.00		94.0	80-120	3.14	20	
Matrix Spike (B9J1308-MS1) Source: 0904314-01 Prepared: 10/13/09 Analyzed: 10/16/09											
Mercury	2.19	0.20	0.018	ug/L	2.00	0.460	86.5	75-125			
Matrix Spike Dup (B9J1308-MSD1) Source: 0904314-01 Prepared: 10/13/09 Analyzed: 10/16/09											
Mercury	2.18	0.20	0.018	ug/L	2.00	0.460	86.0	75-125	0.458	20	
Batch B9J1409 - EPA 200.8 Digestion											
Blank (B9J1409-BLK1) Prepared: 10/14/09 Analyzed: 10/16/09											
Antimony	< 0.046	0.50	0.046	ug/L							
Beryllium	< 0.027	0.50	0.027	ug/L							
Thallium	< 0.0081	0.50	0.0081	ug/L							
LCS (B9J1409-BS1) Prepared: 10/14/09 Analyzed: 10/16/09											
Antimony	23.0	0.50	0.046	ug/L	20.0		115	80-120			
Beryllium	20.9	0.50	0.027	ug/L	20.0		104	80-120			
Thallium	21.1	0.50	0.0081	ug/L	20.0		106	80-120			
LCS Dup (B9J1409-BSD1) Prepared: 10/14/09 Analyzed: 10/16/09											
Antimony	22.1	0.50	0.046	ug/L	20.0		111	80-120	3.91	20	
Beryllium	20.0	0.50	0.027	ug/L	20.0		99.9	80-120	4.39	20	
Thallium	21.3	0.50	0.0081	ug/L	20.0		106	80-120	0.571	20	
Matrix Spike (B9J1409-MS1) Source: 0904320-01 Prepared: 10/14/09 Analyzed: 10/16/09											
Antimony	22.4	0.50	0.046	ug/L	20.0	<0.50	112	75-125			
Beryllium	3.01	0.50	0.027	ug/L	20.0	<0.50	15.0	75-125			M2
Thallium	20.9	0.50	0.0081	ug/L	20.0	<0.50	104	75-125			
Matrix Spike Dup (B9J1409-MSD1) Source: 0904320-01 Prepared: 10/14/09 Analyzed: 10/16/09											
Antimony	22.1	0.50	0.046	ug/L	20.0	<0.50	111	75-125	1.15	20	
Beryllium	3.01	0.50	0.027	ug/L	20.0	<0.50	15.0	75-125	0.0266	20	M2
Thallium	21.3	0.50	0.0081	ug/L	20.0	<0.50	106	75-125	2.03	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904320 Date Reported: 10/16/09
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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9J1410 - EPA 200.7/3005A Digestion

Blank (B9J1410-BLK1)

Prepared: 10/14/09 Analyzed: 10/15/09

Arsenic	< 10	10	2.0	ug/L							
Cadmium	< 1.0	1.0	0.099	ug/L							
Chromium	< 10	10	0.24	ug/L							
Copper	< 20	20	1.4	ug/L							
Lead	< 3.0	3.0	0.68	ug/L							
Nickel	< 5.0	5.0	0.28	ug/L							
Selenium	< 20	20	2.2	ug/L							
Silver	< 5.0	5.0	0.18	ug/L							
Zinc	< 20	20	4.4	ug/L							

LCS (B9J1410-BS1)

Prepared: 10/14/09 Analyzed: 10/15/09

Arsenic	403	10	2.0	ug/L	399		101	80-120			
Cadmium	430	1.0	0.099	ug/L	399		108	80-120			
Chromium	423	10	0.24	ug/L	399		106	80-120			
Copper	415	20	1.4	ug/L	399		104	80-120			
Lead	427	3.0	0.68	ug/L	399		107	80-120			
Nickel	426	5.0	0.28	ug/L	399		107	80-120			
Selenium	396	20	2.2	ug/L	399		99.3	80-120			
Silver	41.3	5.0	0.18	ug/L	39.9		103	80-120			
Zinc	430	20	4.4	ug/L	399		108	80-120			

LCS Dup (B9J1410-BSD1)

Prepared: 10/14/09 Analyzed: 10/15/09

Arsenic	405	10	2.0	ug/L	399		102	80-120	0.581	20	
Cadmium	431	1.0	0.099	ug/L	399		108	80-120	0.206	20	
Chromium	425	10	0.24	ug/L	399		106	80-120	0.454	20	
Copper	413	20	1.4	ug/L	399		104	80-120	0.350	20	
Lead	430	3.0	0.68	ug/L	399		108	80-120	0.629	20	
Nickel	429	5.0	0.28	ug/L	399		107	80-120	0.638	20	
Selenium	400	20	2.2	ug/L	399		100	80-120	0.974	20	
Silver	42.0	5.0	0.18	ug/L	39.9		105	80-120	1.63	20	
Zinc	430	20	4.4	ug/L	399		108	80-120	0.114	20	

Matrix Spike (B9J1410-MS1)

Source: 0904314-01

Prepared: 10/14/09 Analyzed: 10/15/09

Arsenic	403	10	2.0	ug/L	399	<10	101	75-125			
Cadmium	412	1.0	0.099	ug/L	399	<1.0	103	75-125			
Chromium	412	10	0.24	ug/L	399	<10	103	75-125			
Copper	409	20	1.4	ug/L	399	<20	103	75-125			
Lead	414	3.0	0.68	ug/L	399	<3.0	104	75-125			
Nickel	409	5.0	0.28	ug/L	399	<5.0	103	75-125			
Selenium	396	20	2.2	ug/L	399	<20	99.3	75-125			
Silver	41.2	5.0	0.18	ug/L	39.9	<5.0	103	75-125			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904320 Date Reported: 10/16/09
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DISSOLVED METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J1410 - EPA 200.7/3005A Digestion											
Matrix Spike (B9J1410-MS1)		Source: 0904314-01				Prepared: 10/14/09		Analyzed: 10/15/09			
Zinc	406	20	4.4	ug/L	399	<20	102	75-125			
Matrix Spike Dup (B9J1410-MSD1)		Source: 0904314-01				Prepared: 10/14/09		Analyzed: 10/15/09			
Arsenic	397	10	2.0	ug/L	399	<10	99.4	75-125	1.63	20	
Cadmium	407	1.0	0.099	ug/L	399	<1.0	102	75-125	1.16	20	
Chromium	406	10	0.24	ug/L	399	<10	102	75-125	1.41	20	
Copper	396	20	1.4	ug/L	399	<20	99.3	75-125	3.24	20	
Lead	407	3.0	0.68	ug/L	399	<3.0	102	75-125	1.64	20	
Nickel	404	5.0	0.28	ug/L	399	<5.0	101	75-125	1.19	20	
Selenium	394	20	2.2	ug/L	399	<20	98.8	75-125	0.468	20	
Silver	40.5	5.0	0.18	ug/L	39.9	<5.0	101	75-125	1.91	20	
Zinc	402	20	4.4	ug/L	399	<20	101	75-125	0.972	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904320 Date Reported: 10/16/09
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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J1308 - EPA 245.1/7470A Digestion											
Blank (B9J1308-BLK1) Prepared: 10/13/09 Analyzed: 10/16/09											
Mercury	< 0.20	0.20	0.018	ug/L							
LCS (B9J1308-BS1) Prepared: 10/13/09 Analyzed: 10/16/09											
Mercury	1.94	0.20	0.018	ug/L	2.00		97.0	80-120			
LCS Dup (B9J1308-BSD1) Prepared: 10/13/09 Analyzed: 10/16/09											
Mercury	1.88	0.20	0.018	ug/L	2.00		94.0	80-120	3.14	20	
Matrix Spike (B9J1308-MS1) Source: 0904314-01 Prepared: 10/13/09 Analyzed: 10/16/09											
Mercury	2.19	0.20	0.018	ug/L	2.00	0.460	86.5	75-125			
Matrix Spike Dup (B9J1308-MSD1) Source: 0904314-01 Prepared: 10/13/09 Analyzed: 10/16/09											
Mercury	2.18	0.20	0.018	ug/L	2.00	0.460	86.0	75-125	0.458	20	
Batch B9J1409 - EPA 200.8 Digestion											
Blank (B9J1409-BLK1) Prepared: 10/14/09 Analyzed: 10/16/09											
Antimony	< 0.046	0.50	0.046	ug/L							
Beryllium	< 0.027	0.50	0.027	ug/L							
Thallium	< 0.0081	0.50	0.0081	ug/L							
LCS (B9J1409-BS1) Prepared: 10/14/09 Analyzed: 10/16/09											
Antimony	23.0	0.50	0.046	ug/L	20.0		115	80-120			
Beryllium	20.9	0.50	0.027	ug/L	20.0		104	80-120			
Thallium	21.1	0.50	0.0081	ug/L	20.0		106	80-120			
LCS Dup (B9J1409-BSD1) Prepared: 10/14/09 Analyzed: 10/16/09											
Antimony	22.1	0.50	0.046	ug/L	20.0		111	80-120	3.91	20	
Beryllium	20.0	0.50	0.027	ug/L	20.0		99.9	80-120	4.39	20	
Thallium	21.3	0.50	0.0081	ug/L	20.0		106	80-120	0.571	20	
Matrix Spike (B9J1409-MS1) Source: 0904320-01 Prepared: 10/14/09 Analyzed: 10/16/09											
Antimony	22.4	0.50	0.046	ug/L	20.0	<0.50	112	75-125			
Beryllium	3.01	0.50	0.027	ug/L	20.0	<0.50	15.0	75-125			M2
Thallium	20.9	0.50	0.0081	ug/L	20.0	<0.50	104	75-125			
Matrix Spike Dup (B9J1409-MSD1) Source: 0904320-01 Prepared: 10/14/09 Analyzed: 10/16/09											
Antimony	22.1	0.50	0.046	ug/L	20.0	<0.50	111	75-125	1.15	20	
Beryllium	3.01	0.50	0.027	ug/L	20.0	<0.50	15.0	75-125	0.0266	20	M2
Thallium	21.3	0.50	0.0081	ug/L	20.0	<0.50	106	75-125	2.03	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904320 Date Reported: 10/16/09
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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9J1410 - EPA 200.7/3005A Digestion

Blank (B9J1410-BLK1)

Prepared: 10/14/09 Analyzed: 10/15/09

Arsenic	< 10	10	2.0	ug/L							
Cadmium	< 1.0	1.0	0.099	ug/L							
Chromium	< 10	10	0.24	ug/L							
Copper	< 20	20	1.4	ug/L							
Lead	< 3.0	3.0	0.68	ug/L							
Nickel	< 5.0	5.0	0.28	ug/L							
Selenium	< 20	20	2.2	ug/L							
Silver	< 5.0	5.0	0.18	ug/L							
Zinc	< 20	20	4.4	ug/L							

LCS (B9J1410-BS1)

Prepared: 10/14/09 Analyzed: 10/15/09

Arsenic	403	10	2.0	ug/L	399		101	80-120			
Cadmium	430	1.0	0.099	ug/L	399		108	80-120			
Chromium	423	10	0.24	ug/L	399		106	80-120			
Copper	415	20	1.4	ug/L	399		104	80-120			
Lead	427	3.0	0.68	ug/L	399		107	80-120			
Nickel	426	5.0	0.28	ug/L	399		107	80-120			
Selenium	396	20	2.2	ug/L	399		99.3	80-120			
Silver	41.3	5.0	0.18	ug/L	39.9		103	80-120			
Zinc	430	20	4.4	ug/L	399		108	80-120			

LCS Dup (B9J1410-BSD1)

Prepared: 10/14/09 Analyzed: 10/15/09

Arsenic	405	10	2.0	ug/L	399		102	80-120	0.581	20	
Cadmium	431	1.0	0.099	ug/L	399		108	80-120	0.206	20	
Chromium	425	10	0.24	ug/L	399		106	80-120	0.454	20	
Copper	413	20	1.4	ug/L	399		104	80-120	0.350	20	
Lead	430	3.0	0.68	ug/L	399		108	80-120	0.629	20	
Nickel	429	5.0	0.28	ug/L	399		107	80-120	0.638	20	
Selenium	400	20	2.2	ug/L	399		100	80-120	0.974	20	
Silver	42.0	5.0	0.18	ug/L	39.9		105	80-120	1.63	20	
Zinc	430	20	4.4	ug/L	399		108	80-120	0.114	20	

Matrix Spike (B9J1410-MS1)

Source: 0904314-01

Prepared: 10/14/09 Analyzed: 10/15/09

Arsenic	403	10	2.0	ug/L	399	<10	101	75-125			
Cadmium	412	1.0	0.099	ug/L	399	<1.0	103	75-125			
Chromium	412	10	0.24	ug/L	399	<10	103	75-125			
Copper	409	20	1.4	ug/L	399	<20	103	75-125			
Lead	414	3.0	0.68	ug/L	399	<3.0	104	75-125			
Nickel	409	5.0	0.28	ug/L	399	<5.0	103	75-125			
Selenium	396	20	2.2	ug/L	399	<20	99.3	75-125			
Silver	41.2	5.0	0.18	ug/L	39.9	<5.0	103	75-125			

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TOTAL METALS ANALYSIS - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9J1410 - EPA 200.7/3005A Digestion

Matrix Spike (B9J1410-MS1)

Source: 0904314-01

Prepared: 10/14/09 Analyzed: 10/15/09

Zinc	406	20	4.4	ug/L	399	<20	102	75-125			
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Matrix Spike Dup (B9J1410-MSD1)

Source: 0904314-01

Prepared: 10/14/09 Analyzed: 10/15/09

Arsenic	397	10	2.0	ug/L	399	<10	99.4	75-125	1.63	20	
Cadmium	407	1.0	0.099	ug/L	399	<1.0	102	75-125	1.16	20	
Chromium	406	10	0.24	ug/L	399	<10	102	75-125	1.41	20	
Copper	396	20	1.4	ug/L	399	<20	99.3	75-125	3.24	20	
Lead	407	3.0	0.68	ug/L	399	<3.0	102	75-125	1.64	20	
Nickel	404	5.0	0.28	ug/L	399	<5.0	101	75-125	1.19	20	
Selenium	394	20	2.2	ug/L	399	<20	98.8	75-125	0.468	20	
Silver	40.5	5.0	0.18	ug/L	39.9	<5.0	101	75-125	1.91	20	
Zinc	402	20	4.4	ug/L	399	<20	101	75-125	0.972	20	

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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9J0602 - EPA 3510C (Sep Funnel)

Blank (B9J0602-BLK1)

Prepared & Analyzed: 10/06/09

1,2,4-Trichlorobenzene	< 0.19	10	0.19	ug/L							
1,2-Dichlorobenzene	< 0.23	10	0.23	ug/L							
1,2-Diphenylhydrazine as Azobenzene	< 0.24	10	0.24	ug/L							
1,3-Dichlorobenzene	< 0.21	10	0.21	ug/L							
1,4-Dichlorobenzene	< 0.22	10	0.22	ug/L							
2,3,4,6-Tetrachlorophenol	< 0.61	10	0.61	ug/L							
2,4,5-Trichlorophenol	< 0.80	10	0.80	ug/L							
2,4,6-Trichlorophenol	< 0.48	10	0.48	ug/L							
2,4-Dichlorophenol	< 0.47	10	0.47	ug/L							
2,4-Dimethylphenol	< 1.6	10	1.6	ug/L							
2,4-Dinitrophenol	< 1.0	10	1.0	ug/L							
2,4-Dinitrotoluene	< 0.33	10	0.33	ug/L							
2,6-Dichlorophenol	< 0.48	10	0.48	ug/L							
2,6-Dinitrotoluene	< 0.36	10	0.36	ug/L							
2-Chloronaphthalene	< 0.28	10	0.28	ug/L							
2-Chlorophenol	< 0.45	10	0.45	ug/L							
2-Methylnaphthalene	< 0.66	10	0.66	ug/L							
2-Methylphenol	< 0.63	10	0.63	ug/L							
2-Nitroaniline	< 0.72	10	0.72	ug/L							
2-Nitrophenol	< 0.90	10	0.90	ug/L							
3,3'-Dichlorobenzidine	< 7.3	25	7.3	ug/L							
3-Nitroaniline	< 1.2	10	1.2	ug/L							
4,6-Dinitro-2-methylphenol	< 0.65	10	0.65	ug/L							
4-Bromophenyl phenyl ether	< 0.17	10	0.17	ug/L							
4-Chloro-3-methylphenol	< 0.55	10	0.55	ug/L							
4-Chloroaniline	< 2.3	10	2.3	ug/L							
4-Chlorophenyl phenyl ether	< 0.25	10	0.25	ug/L							
4-Methylphenol	< 0.79	10	0.79	ug/L							
4-Nitroaniline	< 0.59	10	0.59	ug/L							
4-Nitrophenol	< 1.2	10	1.2	ug/L							
Acenaphthene	< 0.36	10	0.36	ug/L							
Acenaphthylene	< 0.25	10	0.25	ug/L							
Aniline	< 2.2	10	2.2	ug/L							
Anthracene	< 0.37	10	0.37	ug/L							
Benzidine	< 18	100	18	ug/L							
Benzo (a) anthracene	< 0.37	10	0.37	ug/L							
Benzo (a) pyrene	< 0.29	10	0.29	ug/L							
Benzo (b) fluoranthene	< 0.22	10	0.22	ug/L							
Benzo (g,h,i) perylene	< 0.26	10	0.26	ug/L							

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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9J0602 - EPA 3510C (Sep Funnel)

Blank (B9J0602-BLK1)

Prepared & Analyzed: 10/06/09

Benzo (k) fluoranthene	< 0.31	10	0.31	ug/L							
Benzoic acid	< 1.2	10	1.2	ug/L							
Benzyl alcohol	< 0.54	10	0.54	ug/L							
Bis(2-chloroethoxy)methane	< 0.18	10	0.18	ug/L							
Bis(2-chloroethyl)ether	< 0.17	10	0.17	ug/L							
Bis(2-chloroisopropyl)ether	< 0.19	10	0.19	ug/L							
Bis(2-ethylhexyl)phthalate	< 0.43	10	0.43	ug/L							
Butyl benzyl phthalate	< 0.37	10	0.37	ug/L							
Carbazole	< 0.26	10	0.26	ug/L							
Chrysene	< 0.27	10	0.27	ug/L							
Dibenz (a,h) anthracene	< 0.23	10	0.23	ug/L							
Dibenzofuran	< 0.39	10	0.39	ug/L							
Diethyl phthalate	2.12	10	0.23	ug/L							B-02, J
Dimethyl phthalate	< 0.24	10	0.24	ug/L							
Di-n-butyl phthalate	< 0.28	10	0.28	ug/L							
Di-n-octyl phthalate	< 0.38	10	0.38	ug/L							
Fluoranthene	< 0.39	10	0.39	ug/L							
Fluorene	< 0.40	10	0.40	ug/L							
Hexachlorobenzene	< 0.20	10	0.20	ug/L							
Hexachlorobutadiene	< 0.26	10	0.26	ug/L							
Hexachlorocyclopentadiene	< 0.31	10	0.31	ug/L							
Hexachloroethane	< 0.31	10	0.31	ug/L							
Indeno (1,2,3-cd) pyrene	< 0.31	10	0.31	ug/L							
Isophorone	< 0.23	10	0.23	ug/L							
Naphthalene	< 0.37	10	0.37	ug/L							
Nitrobenzene	< 0.39	10	0.39	ug/L							
N-Nitrosodimethylamine	< 0.95	10	0.95	ug/L							
N-Nitrosodi-n-propylamine	< 0.21	10	0.21	ug/L							
N-Nitrosodiphenylamine	< 0.23	10	0.23	ug/L							
Pentachlorophenol	< 0.59	10	0.59	ug/L							
Phenanthrene	< 0.39	10	0.39	ug/L							
Phenol	< 0.57	10	0.57	ug/L							
Pyrene	< 0.47	10	0.47	ug/L							
Surrogate: 2,4,6-Tribromophenol	91.7			ug/L	100		91.7	48.5-114			
Surrogate: 2-Fluorobiphenyl	66.5			ug/L	100		66.5	41.7-98.4			
Surrogate: 2-Fluorophenol	64.7			ug/L	100		64.7	30-93.5			
Surrogate: Nitrobenzene-d5	69.6			ug/L	100		69.6	47.4-97.8			
Surrogate: Phenol-d6	60.8			ug/L	100		60.8	30-91.5			
Surrogate: Terphenyl-d14	74.7			ug/L	100		74.7	30-108			

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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9J0602 - EPA 3510C (Sep Funnel)

LCS (B9J0602-BS1)

Prepared & Analyzed: 10/06/09

1,2,4-Trichlorobenzene	54.8	10	0.19	ug/L	100		54.8	48.2-88.3			
1,4-Dichlorobenzene	47.7	10	0.22	ug/L	100		47.7	42.8-82.2			
2,4-Dinitrotoluene	77.6	10	0.33	ug/L	100		77.6	64.6-98.9			
2-Chlorophenol	62.6	10	0.45	ug/L	100		62.6	56.5-88.1			
4-Chloro-3-methylphenol	68.3	10	0.55	ug/L	100		68.3	63.4-95.2			
4-Nitrophenol	62.0	10	1.2	ug/L	100		62.0	51.3-90.6			
Anthracene	74.7	10	0.37	ug/L	100		74.7	66.7-92.8			
Benzo (a) anthracene	82.0	10	0.37	ug/L	100		82.0	72.7-97.2			
Benzo (a) pyrene	76.8	10	0.29	ug/L	100		76.8	66.4-101			
Chrysene	82.1	10	0.27	ug/L	100		82.1	71.5-98.1			
Fluoranthene	76.6	10	0.39	ug/L	100		76.6	68.8-94			
Fluorene	70.7	10	0.40	ug/L	100		70.7	64.2-94.4			
N-Nitrosodi-n-propylamine	66.6	10	0.21	ug/L	100		66.6	63.6-92.8			
Pentachlorophenol	74.7	10	0.59	ug/L	100		74.7	60.2-101			
Phenanthrene	76.2	10	0.39	ug/L	100		76.2	68.1-94.8			
Phenol	48.3	10	0.57	ug/L	100		48.3	39.6-71			
<i>Surrogate: 2,4,6-Tribromophenol</i>	83.4			ug/L	100		83.4	48.5-114			
<i>Surrogate: 2-Fluorobiphenyl</i>	63.5			ug/L	100		63.5	41.7-98.4			
<i>Surrogate: 2-Fluorophenol</i>	61.3			ug/L	100		61.3	30-93.5			
<i>Surrogate: Nitrobenzene-d5</i>	65.2			ug/L	100		65.2	47.4-97.8			
<i>Surrogate: Phenol-d6</i>	56.3			ug/L	100		56.3	30-91.5			
<i>Surrogate: Terphenyl-d14</i>	77.7			ug/L	100		77.7	30-108			

LCS Dup (B9J0602-BSD1)

Prepared & Analyzed: 10/06/09

Q9, QM-10

1,2,4-Trichlorobenzene	60.6	10	0.19	ug/L	100		60.6	48.2-88.3	10.0	20	
1,4-Dichlorobenzene	53.5	10	0.22	ug/L	100		53.5	42.8-82.2	11.6	20	
2,4-Dinitrotoluene	83.6	10	0.33	ug/L	100		83.6	64.6-98.9	7.47	20	
2-Chlorophenol	70.6	10	0.45	ug/L	100		70.6	56.5-88.1	12.0	20	
4-Chloro-3-methylphenol	74.1	10	0.55	ug/L	100		74.1	63.4-95.2	8.14	20	
4-Nitrophenol	65.0	10	1.2	ug/L	100		65.0	51.3-90.6	4.79	20	
Anthracene	80.4	10	0.37	ug/L	100		80.4	66.7-92.8	7.28	20	
Benzo (a) anthracene	88.7	10	0.37	ug/L	100		88.7	72.7-97.2	7.81	20	
Benzo (a) pyrene	82.2	10	0.29	ug/L	100		82.2	66.4-101	6.77	20	
Chrysene	88.3	10	0.27	ug/L	100		88.3	71.5-98.1	7.32	20	
Fluoranthene	80.3	10	0.39	ug/L	100		80.3	68.8-94	4.79	20	
Fluorene	76.5	10	0.40	ug/L	100		76.5	64.2-94.4	7.83	20	
N-Nitrosodi-n-propylamine	75.6	10	0.21	ug/L	100		75.6	63.6-92.8	12.8	20	
Pentachlorophenol	80.1	10	0.59	ug/L	100		80.1	60.2-101	7.01	20	
Phenanthrene	81.8	10	0.39	ug/L	100		81.8	68.1-94.8	7.04	20	
Phenol	54.2	10	0.57	ug/L	100		54.2	39.6-71	11.5	20	

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SVOC 8270C - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9J0602 - EPA 3510C (Sep Funnel)

LCS Dup (B9J0602-BSD1)

Prepared & Analyzed: 10/06/09

Q9, QM-10

Surrogate: 2,4,6-Tribromophenol	89.3			ug/L	100		89.3	48.5-114			
Surrogate: 2-Fluorobiphenyl	72.3			ug/L	100		72.3	41.7-98.4			
Surrogate: 2-Fluorophenol	69.0			ug/L	100		69.0	30-93.5			
Surrogate: Nitrobenzene-d5	74.7			ug/L	100		74.7	47.4-97.8			
Surrogate: Phenol-d6	63.2			ug/L	100		63.2	30-91.5			
Surrogate: Terphenyl-d14	83.9			ug/L	100		83.9	30-108			

Matrix Spike (B9J0602-MS1)

Source: 0904311-02

Prepared & Analyzed: 10/06/09

1,2,4-Trichlorobenzene	73.1	10	0.19	ug/L	101	<10	72.3	43.8-87.4			
1,4-Dichlorobenzene	62.3	10	0.22	ug/L	101	<10	61.7	43.7-78.7			
2,4-Dinitrotoluene	80.5	10	0.33	ug/L	101	<10	79.7	52.8-100			
2-Chlorophenol	68.3	10	0.45	ug/L	101	<10	67.6	30.1-95			
4-Chloro-3-methylphenol	72.6	10	0.55	ug/L	101	<10	71.9	44.8-98.7			
4-Nitrophenol	65.1	10	1.2	ug/L	101	<10	64.4	32.5-99.6			
Anthracene	78.3	10	0.37	ug/L	101	<10	77.5	44.8-97.6			
Benzo (a) anthracene	85.5	10	0.37	ug/L	101	<10	84.7	30-115			
Benzo (a) pyrene	80.2	10	0.29	ug/L	101	<10	79.4	30-110			
Chrysene	85.7	10	0.27	ug/L	101	<10	84.8	30-115			
Fluoranthene	78.6	10	0.39	ug/L	101	<10	77.8	37.4-103			
Fluorene	74.3	10	0.40	ug/L	101	<10	73.6	49.6-92.1			
N-Nitrosodi-n-propylamine	72.3	10	0.21	ug/L	101	<10	71.6	44.9-100			
Pentachlorophenol	78.0	10	0.59	ug/L	101	<10	77.2	31.2-123			
Phenanthrene	80.2	10	0.39	ug/L	101	<10	79.4	47-99.1			
Phenol	52.9	10	0.57	ug/L	101	<10	52.3	30-79.5			
Surrogate: 2,4,6-Tribromophenol	87.0			ug/L	101		86.1	48.5-114			
Surrogate: 2-Fluorobiphenyl	72.2			ug/L	101		71.5	41.7-98.4			
Surrogate: 2-Fluorophenol	67.0			ug/L	101		66.4	30-93.5			
Surrogate: Nitrobenzene-d5	72.1			ug/L	101		71.3	47.4-97.8			
Surrogate: Phenol-d6	61.8			ug/L	101		61.2	30-91.5			
Surrogate: Terphenyl-d14	80.7			ug/L	101		79.9	30-108			

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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9J0608 - EPA 5030 Water (Purge and Trap)

Blank (B9J0608-BLK1)

Prepared: 10/06/09 Analyzed: 10/07/09

1,1,1,2-Tetrachloroethane	< 0.28	1.0	0.28	ug/L							
1,1,1-Trichloroethane	< 0.17	1.0	0.17	ug/L							
1,1,2,2-Tetrachloroethane	< 0.13	1.0	0.13	ug/L							
1,1,2-Trichloroethane	< 0.19	1.0	0.19	ug/L							
1,1,2-Trichlorotrifluoroethane	< 0.28	1.0	0.28	ug/L							
1,1-Dichloroethane	< 0.11	1.0	0.11	ug/L							
1,1-Dichloroethene	< 0.12	1.0	0.12	ug/L							
1,1-Dichloropropene	< 0.15	1.0	0.15	ug/L							
1,2,3-Trichlorobenzene	< 0.47	5.0	0.47	ug/L							
1,2,3-Trichloropropane	< 0.24	2.5	0.24	ug/L							
1,2,4-Trichlorobenzene	< 0.32	5.0	0.32	ug/L							
1,2,4-Trimethylbenzene	< 0.17	1.0	0.17	ug/L							
1,2-Dibromo-3-chloropropane	< 0.60	5.0	0.60	ug/L							
1,2-Dibromoethane (EDB)	< 0.37	2.5	0.37	ug/L							
1,2-Dichlorobenzene	< 0.16	1.0	0.16	ug/L							
1,2-Dichloroethane	< 0.18	1.0	0.18	ug/L							
1,2-Dichloropropane	< 0.21	1.0	0.21	ug/L							
1,3,5-Trimethylbenzene	< 0.18	1.0	0.18	ug/L							
1,3-Dichlorobenzene	< 0.21	1.0	0.21	ug/L							
1,3-Dichloropropane	< 0.15	1.0	0.15	ug/L							
1,4-Dichlorobenzene	< 0.17	1.0	0.17	ug/L							
2,2-Dichloropropane	< 0.58	5.0	0.58	ug/L							
2-Butanone	< 0.67	20	0.67	ug/L							
2-Chlorotoluene	< 0.17	1.0	0.17	ug/L							
4-Chlorotoluene	< 0.14	1.0	0.14	ug/L							
Acetone	< 2.8	20	2.8	ug/L							
Allyl chloride	< 0.76	5.0	0.76	ug/L							
Benzene	< 0.093	1.0	0.093	ug/L							
Bromobenzene	< 0.17	1.0	0.17	ug/L							
Bromochloromethane	< 0.21	1.0	0.21	ug/L							
Bromodichloromethane	< 0.22	1.0	0.22	ug/L							
Bromoform	< 0.50	5.0	0.50	ug/L							
Bromomethane	< 0.95	5.0	0.95	ug/L							
Carbon tetrachloride	< 0.16	1.0	0.16	ug/L							
Chlorobenzene	< 0.15	1.0	0.15	ug/L							
Chloroethane	< 0.46	2.5	0.46	ug/L							
Chloroform	< 0.19	1.0	0.19	ug/L							
Chloromethane	< 0.37	2.5	0.37	ug/L							
cis-1,2-Dichloroethene	< 0.19	1.0	0.19	ug/L							

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904320 Date Reported: 10/16/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9J0608 - EPA 5030 Water (Purge and Trap)

Blank (B9J0608-BLK1)

Prepared: 10/06/09 Analyzed: 10/07/09

cis-1,3-Dichloropropene	< 0.16	1.0	0.16	ug/L							
Dibromochloromethane	< 0.50	2.5	0.50	ug/L							
Dibromomethane	< 0.30	2.5	0.30	ug/L							
Dichlorodifluoromethane	< 0.58	5.0	0.58	ug/L							
Dichlorofluoromethane	< 0.31	1.0	0.31	ug/L							
Ethyl ether	< 0.53	5.0	0.53	ug/L							
Ethylbenzene	< 0.21	1.0	0.21	ug/L							
Hexachlorobutadiene	< 0.76	10	0.76	ug/L							
Isopropylbenzene	< 0.17	1.0	0.17	ug/L							
m,p-Xylene	< 0.42	2.0	0.42	ug/L							
Methyl isobutyl ketone	< 1.1	5.0	1.1	ug/L							
Methyl tert-butyl ether	< 0.13	1.0	0.13	ug/L							
Methylene chloride	< 0.65	5.0	0.65	ug/L							
Naphthalene	< 0.40	5.0	0.40	ug/L							
n-Butylbenzene	< 0.32	2.5	0.32	ug/L							
n-Propylbenzene	< 0.13	1.0	0.13	ug/L							
o-Xylene	< 0.18	1.0	0.18	ug/L							
p-Isopropyltoluene	< 0.30	2.5	0.30	ug/L							
sec-Butylbenzene	< 0.22	1.0	0.22	ug/L							
Styrene	< 0.13	1.0	0.13	ug/L							
tert-Butylbenzene	< 0.19	1.0	0.19	ug/L							
Tetrachloroethene	< 0.20	1.0	0.20	ug/L							
Tetrahydrofuran	< 0.77	20	0.77	ug/L							
Toluene	< 0.21	1.0	0.21	ug/L							
trans-1,2-Dichloroethene	< 0.29	1.0	0.29	ug/L							
trans-1,3-Dichloropropene	< 0.17	1.0	0.17	ug/L							
Trichloroethene	< 0.20	1.0	0.20	ug/L							
Trichlorofluoromethane	< 0.17	1.0	0.17	ug/L							
Vinyl chloride	< 0.087	1.0	0.087	ug/L							
Surrogate: 4-Bromofluorobenzene	61.3			ug/L	55.0		111	80-121			
Surrogate: Dibromofluoromethane	56.4			ug/L	55.0		102	79.9-121			
Surrogate: Toluene-d8	55.4			ug/L	55.0		101	80-120			

LCS (B9J0608-BS1)

Prepared: 10/06/09 Analyzed: 10/07/09

1,1,2,2-Tetrachloroethane	51.1	1.0	0.13	ug/L	50.0		102	80-121			
1,1-Dichloroethane	51.5	1.0	0.11	ug/L	50.0		103	80-125			
1,1-Dichloroethene	56.1	1.0	0.12	ug/L	50.0		112	80-125			
1,3,5-Trimethylbenzene	50.7	1.0	0.18	ug/L	50.0		101	75.4-125			
1,4-Dichlorobenzene	48.5	1.0	0.17	ug/L	50.0		97.1	75-125			
2-Chlorotoluene	49.3	1.0	0.17	ug/L	50.0		98.6	75.4-125			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Nepl	Work Order #: 0904320 Date Reported: 10/16/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
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Batch B9J0608 - EPA 5030 Water (Purge and Trap)

LCS (B9J0608-BS1)

Prepared: 10/06/09 Analyzed: 10/07/09

Benzene	52.4	1.0	0.093	ug/L	50.0		105	80-120			
Bromoform	47.8	5.0	0.50	ug/L	50.0		95.6	80-120			
Chlorobenzene	49.0	1.0	0.15	ug/L	50.0		97.9	80-120			
Chloroform	49.8	1.0	0.19	ug/L	50.0		99.6	80-123			
Ethylbenzene	50.6	1.0	0.21	ug/L	50.0		101	80-120			
n-Butylbenzene	48.6	2.5	0.32	ug/L	50.0		97.3	75-125			
n-Propylbenzene	51.0	1.0	0.13	ug/L	50.0		102	75.8-125			
Toluene	51.3	1.0	0.21	ug/L	50.0		103	80-120			
Trichloroethene	52.6	1.0	0.20	ug/L	50.0		105	80-120			
Vinyl chloride	51.7	1.0	0.087	ug/L	50.0		103	75-130			
Surrogate: 4-Bromofluorobenzene	63.8			ug/L	55.0		116	80-121			
Surrogate: Dibromofluoromethane	57.5			ug/L	55.0		105	79.9-121			
Surrogate: Toluene-d8	56.9			ug/L	55.0		104	80-120			

Matrix Spike (B9J0608-MS1)

Source: 0904276-01

Prepared: 10/06/09 Analyzed: 10/07/09

1,1,2,2-Tetrachloroethane	49.8	1.0	0.13	ug/L	50.0	<1.0	99.6	76.8-125			
1,1-Dichloroethane	51.2	1.0	0.11	ug/L	50.0	<1.0	102	80-125			
1,1-Dichloroethene	55.2	1.0	0.12	ug/L	50.0	<1.0	110	80-125			
1,3,5-Trimethylbenzene	49.3	1.0	0.18	ug/L	50.0	<1.0	98.6	75-125			
1,4-Dichlorobenzene	47.1	1.0	0.17	ug/L	50.0	<1.0	94.2	75-125			
2-Chlorotoluene	47.6	1.0	0.17	ug/L	50.0	<1.0	95.3	75-125			
Benzene	52.3	1.0	0.093	ug/L	50.0	<1.0	105	80-120			
Bromoform	50.6	5.0	0.50	ug/L	50.0	<5.0	101	80-120			
Chlorobenzene	49.6	1.0	0.15	ug/L	50.0	<1.0	99.3	80-120			
Chloroform	50.3	1.0	0.19	ug/L	50.0	<1.0	101	79.8-125			
Ethylbenzene	52.6	1.0	0.21	ug/L	50.0	<1.0	105	80-120			
n-Butylbenzene	49.0	2.5	0.32	ug/L	50.0	<2.5	98.1	75-130			
n-Propylbenzene	49.8	1.0	0.13	ug/L	50.0	<1.0	99.6	75-125			
Toluene	50.6	1.0	0.21	ug/L	50.0	<1.0	101	80-120			
Trichloroethene	51.6	1.0	0.20	ug/L	50.0	<1.0	103	80-120			
Vinyl chloride	51.6	1.0	0.087	ug/L	50.0	<1.0	103	75-130			
Surrogate: 4-Bromofluorobenzene	63.0			ug/L	55.0		114	80-121			
Surrogate: Dibromofluoromethane	56.2			ug/L	55.0		102	79.9-121			
Surrogate: Toluene-d8	57.3			ug/L	55.0		104	80-120			

Matrix Spike Dup (B9J0608-MSD1)

Source: 0904276-01

Prepared: 10/06/09 Analyzed: 10/07/09

1,1,2,2-Tetrachloroethane	49.9	1.0	0.13	ug/L	50.0	<1.0	99.7	76.8-125	0.151	20	
1,1-Dichloroethane	52.2	1.0	0.11	ug/L	50.0	<1.0	104	80-125	2.01	20	
1,1-Dichloroethene	55.4	1.0	0.12	ug/L	50.0	<1.0	111	80-125	0.312	20	
1,3,5-Trimethylbenzene	50.3	1.0	0.18	ug/L	50.0	<1.0	101	75-125	1.99	20	

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Neppi	Work Order #: 0904320 Date Reported: 10/16/09
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VOC 8260B - Quality Control
Legend Technical Services, Inc.

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	%RPD	%RPD Limit	Notes
Batch B9J0608 - EPA 5030 Water (Purge and Trap)											
Matrix Spike Dup (B9J0608-MSD1)		Source: 0904276-01			Prepared: 10/06/09		Analyzed: 10/07/09				
1,4-Dichlorobenzene	48.8	1.0	0.17	ug/L	50.0	<1.0	97.5	75-125	3.48	20	
2-Chlorotoluene	49.4	1.0	0.17	ug/L	50.0	<1.0	98.7	75-125	3.56	20	
Benzene	52.6	1.0	0.093	ug/L	50.0	<1.0	105	80-120	0.531	20	
Bromoform	47.9	5.0	0.50	ug/L	50.0	<5.0	95.8	80-120	5.46	20	
Chlorobenzene	48.4	1.0	0.15	ug/L	50.0	<1.0	96.9	80-120	2.45	20	
Chloroform	50.3	1.0	0.19	ug/L	50.0	<1.0	101	79.8-125	0.00716	20	
Ethylbenzene	50.5	1.0	0.21	ug/L	50.0	<1.0	101	80-120	4.09	20	
n-Butylbenzene	50.1	2.5	0.32	ug/L	50.0	<2.5	100	75-130	2.11	20	
n-Propylbenzene	50.5	1.0	0.13	ug/L	50.0	<1.0	101	75-125	1.47	20	
Toluene	51.3	1.0	0.21	ug/L	50.0	<1.0	103	80-120	1.22	20	
Trichloroethene	52.5	1.0	0.20	ug/L	50.0	<1.0	105	80-120	1.75	20	
Vinyl chloride	52.8	1.0	0.087	ug/L	50.0	<1.0	106	75-130	2.26	20	
Surrogate: 4-Bromofluorobenzene	62.9			ug/L	55.0		114	80-121			
Surrogate: Dibromofluoromethane	55.3			ug/L	55.0		100	79.9-121			
Surrogate: Toluene-d8	56.9			ug/L	55.0		104	80-120			

Barr Engineering Co. 4700 W 77th St Minneapolis, MN 55435	Project: 23190B05.07 Project Number: 23190B05.07 SIRI 300 Project Manager: Ms. Kelly Neppi	Work Order #: 0904320 Date Reported: 10/16/09
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Notes and Definitions

QM-10 LCS/LCSD were analyzed in place of MS/MSD.
Q9 Insufficient sample received to meet method QC requirements.
M2 Matrix spike recovery was low, the associated blank spike recovery was acceptable.
J Parameter was present between the MDL and RL and should be considered an estimated value
B-02 Target analyte was present in the method blank between the MDL and RL.
< Less than value listed
dry Sample results reported on a dry weight basis
NA Not applicable. The %RPD is not calculated from values less than the reporting limit.
MDL Method Detection Limit
RL Reporting Limit
RPD Relative Percent Difference
LCS Laboratory Control Spike = Blank Spike (BS) = Laboratory Fortified Blank (LFB)
MS Matrix Spike = Laboratory Fortified Matrix (LFM)

LEGEND

Technical Services, Inc.

www.legend-group.com

88 Empire Drive
St Paul, MN 55103
Tel: 651-642-1150
Fax: 651-642-1239

0904320

Chain of Custody

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

BARR

Project Number

23 / 19 - 0805 S R / 300

Project Name

NO 27902

Sample Identification

Matrix Type

Collection Date Time

Water Soil

Grab Comp

OC

01 WSW-20765 9/29/09 1155 ✓

02 MW-03-007 - 1530 ✓

03 MW-E2-305 ✓ 1735 ✓

04 MW-E2-009 9/30/09 1305 ✓

05 M-1 10/2/09 ✓

06 PB-1 9/29/09 1820 ✓

07 MW-E2-012 10/2/09 1140 ✓

08

09

10

11

12

Number of Containers/Preservative		Water		Soil		Total No. Of Containers		COC									
Volatiles Organics (Pres.) #1	Semivolatile Organics #2	Dissolved Metals (HNO ₃)	Total Metals (HNO ₃)	General (Unpreserved) #3	Cyanide (NaOH)	Nitrite (H ₂ SO ₄) #4	Oil and Grease (H ₂ SO ₄)	Sulfide (Zn Acetate)	Methane Bacteria (Na ₂ S ₂ O ₃)	DRG (HCl)	VOCs (2-oz tared MeOH) #7	GRO, BTEX (2-oz tared MeOH) #7	DHO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) #2	% Moisture (plastic vial, unpres.)	
3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Remarks: Table 1, VOC's, SVOC's, Metals																	
Miscel's																	
Project Manager: JME																	
Project Contact: KJN																	
Sampled by: KSJ																	
Laboratory: Legend																	
COC _____ of _____																	

Common Parameter/Container - Preservation Key

*1 - Volatile Organics = BTEX, GRG, TPH, Full Lab

*2 - Semivolatile Organics = PAHs, PCB, Dioxins, Mill Lab, Herbicide/Pesticide/PCBs

*3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate

*4 - Nutrients = COD, TOC, Phosphorus, Ammonia Nitrogen, TKN

Requisitioned by: *[Signature]*

Requisitioned by: *[Signature]*

On Site? Y N

Federal Expense Sampler

Other

Date: 10/2/09

Date: 10/2/09

Received by: *[Signature]*

Received by: *[Signature]*

Air Bill Number: _____

Date: 10/2/09

Date: 10/2/09

Time: 16:00

Time: 16:00

4.5 *[Signature]*

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

June 30, 2009

TestAmerica Project Number: G9F090245

PO/Contract: 23/19-B05.07SOC350

Kelly Neppi
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Dear Ms. Neppi,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on June 9, 2009. These samples are associated with your UMore Phase II project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4442.

Sincerely,



Karen M. Sellers
Project Manager

Table of Contents

TestAmerica West Sacramento Project Number G9F090245

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

General Chemistry - Various Methods

Samples: 1, 2, 3, 4, 5

 Sample Data Sheet

 Method Blank Report

 Laboratory QC Reports

Case Narrative

TestAmerica West Sacramento Project Number G9F090245

General Comments

Please note that the temperature of the samples was recorded as 13 degrees Celsius at time of receipt. The client was notified and authorized the laboratory to proceed with the analyses.

There are no anomalies associated with this project.

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	NA

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G9F090245

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
LEK6A	1	SOC2-TT1-1.5'	6/5/2009 09:00 AM	6/9/2009 09:00 AM
LEK6G	2	SOC2-TT2-0.5'-1.5'	6/5/2009 10:45 AM	6/9/2009 09:00 AM
LEK6J	3	SOC2-TT3-0.5'-1'	6/5/2009 11:45 AM	6/9/2009 09:00 AM
LEK6L	4	SOC2-TT4-0.5'-1'	6/5/2009 01:30 PM	6/9/2009 09:00 AM
LEK6N	5	SOC2-TT5-0.5'-1'	6/5/2009 02:30 PM	6/9/2009 09:00 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Chain of Custody

4700 West 77th Street
 Minneapolis, MN 55435-4803
 (952) 832-2600

BARR

Project Number
 23 / 19 - BOS ^{SOC} 350

Project Name
 UMORE Phase II No. 28192

Sample Identification	Collection		Matrix		Type		Number of Containers/Preservative																	Total No. Of Containers	Remarks:					
	Date	Time	Water	Soil	Grab	Comp.	OC	Water								Soil														
								Volatile Organics (Pres.) *1	Semivolatile Organics *2	Dissolved Metals (HNO ₃)	Total Metals (HNO ₃)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H ₂ SO ₄) *4	Oil and Grease (H ₂ SO ₄)	Sulfide (Zn Acetate)	Methane	Bacteria (Na ₂ S ₂ O ₃)	DRO (HCl)	VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH) *1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)			SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)	Nitrocellulose (4oz vials)		
1. SOC2-TT1-1.5'	6/5/09	09:00	X	X																					2	2	Analyze All for Nitrocellulose			
2. SOC2-TT2-0.5'-1.5'		10:45	X	X																						2	2			
3. SOC2-TT3-0.5'-1'		11:45	X	X																							2	2		
4. SOC2-TT4-0.5'-1'		13:30	X	X																							2	2		
5. SOC2-TT5-0.5'-1'		1430	X	X																							2	2		
6.																														
7.																														
8.																														
9.																														
10.																														
11.																														
12.																														

West Sacramento (916) 373-5600

Common Parameter/Container - Preservation Key
 *1 - Volatile Organics = BTEX, GRO, TPH, Full List
 *2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
 *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
 *4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By: <i>[Signature]</i>	On Ice? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Date: 6/5/09	Time: 1448	Received by: <i>[Signature]</i>	Date: 6-5	Time:
Relinquished By: <i>[Signature]</i>	On Ice? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Date: 6-8-09	Time:	Received by: <i>[Signature]</i>	Date: 6/5/09	Time: 16:15
Samples Shipped VIA: <input type="checkbox"/> Air Freight <input type="checkbox"/> Federal Express <input type="checkbox"/> Sampler <input type="checkbox"/> Other			Air Bill Number:			

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator
 rec'd by: *[Signature]* 6-9-09 16:00 UMP008466

G9F000245 H:RLG:STD:FORM:Chain of Custody Form RLG Rev. 07/01/05

CLIENT Barv PM FS LOG# 58965

LOT# (QUANTIMS ID) 94090245 QUOTE# 83148 LOCATION W3B

DATE RECEIVED 6-9-09 TIME RECEIVED 900 Initials Ar Date 6-9-09

- DELIVERED BY
- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> FEDEX | <input type="checkbox"/> CA OVERNIGHT | <input type="checkbox"/> CLIENT |
| <input type="checkbox"/> AIRBORNE | <input type="checkbox"/> GOLDENSTATE | <input type="checkbox"/> DHL |
| <input type="checkbox"/> UPS | <input type="checkbox"/> BAX GLOBAL | <input type="checkbox"/> GO-GETTERS |
| <input type="checkbox"/> TAL COURIER | <input type="checkbox"/> VALLEY LOGISTICS | <input type="checkbox"/> MORGAN HILL COURIER |
| <input type="checkbox"/> OTHER | | |

CUSTODY SEAL STATUS INTACT BROKEN N/A

CUSTODY SEAL #(S) _____

SHIPPING CONTAINER(S) TAL CLIENT N/A

TEMPERATURE RECORD (IN °C) IR 4 5 OTHER _____

COC #(S) 28192

TEMPERATURE BLANK Observed: N/A Corrected: _____

SAMPLE TEMPERATURE
Observed: 12 13 14 Average: 13 Corrected Average: 13

COLLECTOR'S NAME: Verified from COC Not on COC

pH MEASURED YES ANOMALY N/A

LABELED BY: _____

LABELS CHECKED BY: _____

PEER REVIEW _____ N/A

SHORT HOLD TEST NOTIFICATION

<input type="checkbox"/> METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> CLOUSEAU	<input checked="" type="checkbox"/> TEMPERATURE EXCEEDED (2 °C - 6 °C) ¹ <input type="checkbox"/> N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES N/A

CLOUSEAU TEMPERATURE EXCEEDED (2 °C - 6 °C)¹ N/A

WET ICE BLUE ICE GEL PACK NO COOLING AGENTS USED PM NOTIFIED

Notes: _____

¹ Acceptable temperature range for State of Wisconsin samples is ≤4°C.

Lot ID: _____

G9F090245

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
___AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
___CGJ																				
500CGJ																				
250CGJ																				
125CGJ	2	2	2	2	2															
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
___CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				

h = hydrochloric acid s = sulfuric acid na = sodium hydroxide n = nitric acid zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 4/09 RKE

LEAVE NO SPACES BLANK. USE "NA" IF NOT APPLICABLE.

General Chemistry - Various Methods

Barr Engineering Company

Client Sample ID: SOC2-TT1-1.5'

General Chemistry

Lot-Sample #...: G9F090245-001 Work Order #...: LEK6A Matrix.....: SOLID
Date Sampled...: 06/05/09 Date Received...: 06/09/09
% Moisture.....: 17

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	6.0	mg/kg	MCAWW 353.2	06/19-06/23/09	9170398
		Dilution Factor: 1				
Percent Moisture	16.6	0.10	%	ASTM D 2216-90	06/27-06/29/09	9178030
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC2-TT2-0.5'-1.5'

General Chemistry

Lot-Sample #...: G9F090245-002 Work Order #...: LEK6G Matrix.....: SOLID
Date Sampled...: 06/05/09 Date Received...: 06/09/09
% Moisture.....: 1.5

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	5.1	mg/kg	MCAWW 353.2	06/19-06/23/09	9170398
			Dilution Factor: 1			
Percent Moisture	1.5	0.10	%	ASTM D 2216-90	06/27-06/29/09	9178030
			Dilution Factor: 1			

NOTE(S):

RL Reporting Limit
Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC2-TT3-0.5'-1'

General Chemistry

Lot-Sample #...: G9F090245-003 Work Order #...: LEK6J Matrix.....: SOLID
Date Sampled...: 06/05/09 Date Received...: 06/09/09
% Moisture.....: 12

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	5.7	mg/kg	MCAWW 353.2	06/19-06/23/09	9170398
			Dilution Factor: 1			
Percent Moisture	12.4	0.10	%	ASTM D 2216-90	06/27-06/29/09	9178030
			Dilution Factor: 1			

NOTE(S):

RL Reporting Limit
Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC2-TT4-0.5'-1'

General Chemistry

Lot-Sample #...: G9F090245-004 Work Order #...: LEK6L Matrix.....: SOLID
Date Sampled...: 06/05/09 Date Received...: 06/09/09
% Moisture.....: 11

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	5.6	mg/kg	MCAWW 353.2	06/19-06/23/09	9170398
			Dilution Factor: 1			
Percent Moisture	11.5	0.10	%	ASTM D 2216-90	06/27-06/29/09	9178030
			Dilution Factor: 1			

NOTE(S):

RL Reporting Limit
Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC2-TT5-0.5'-1'

General Chemistry

Lot-Sample #...: G9F090245-005 Work Order #...: LEK6N Matrix.....: SOLID
Date Sampled...: 06/05/09 Date Received...: 06/09/09
% Moisture.....: 12

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	5.7	mg/kg	MCAWW 353.2	06/19-06/23/09	9170398
			Dilution Factor: 1			
Percent Moisture	12.1	0.10	%	ASTM D 2216-90	06/27-06/29/09	9178030
			Dilution Factor: 1			

NOTE(S):

RL Reporting Limit
Results and reporting limits have been adjusted for dry weight.

QC DATA ASSOCIATION SUMMARY

G9F090245

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	SOLID	ASTM D 2216-90		9178030	9178011
	SOLID	MCAWW 353.2		9170398	9170223
002	SOLID	ASTM D 2216-90		9178030	9178011
	SOLID	MCAWW 353.2		9170398	9170223
003	SOLID	ASTM D 2216-90		9178030	9178011
	SOLID	MCAWW 353.2		9170398	9170223
004	SOLID	ASTM D 2216-90		9178030	9178011
	SOLID	MCAWW 353.2		9170398	9170223
005	SOLID	ASTM D 2216-90		9178030	9178011
	SOLID	MCAWW 353.2		9170398	9170223

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9F090245

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Nitrocellulose	ND	Work Order #: LFALH1AA 5.0	mg/kg	MB Lot-Sample #: MCAWW 353.2	G9F190000-398 06/19-06/23/09	9170398
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9F090245

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	58	(34 - 115)	MCAWW 353.2	06/19-06/23/09	9170398

Work Order #: LFALH1AC LCS Lot-Sample#: G9F190000-398
Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9F090245

Matrix.....: SOLID

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCNT</u> <u>RECVRY</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Nitrocellulose	50.7	29.2	mg/kg	58	MCAWW 353.2	06/19-06/23/09	9170398

Work Order #: LFALH1AC LCS Lot-Sample#: G9F190000-398
Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9F090245

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/16/09

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose							
	66	(34 - 115)			MCAWW 353.2	06/19-06/23/09	9170398
	63	(34 - 115)	3.9	(0-71)	MCAWW 353.2	06/19-06/23/09	9170398
			Dilution Factor: 1				

% Moisture.....: 0.0
MS Lot-Sample #: G9F160229-003

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9F090245

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/16/09

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
% Moisture.....: 0.0									
Nitrocellulose			WO#: LE1741AC-MS/LE1741AD-MSD			MS Lot-Sample #: G9F160229-003			
	10.2	50.7	43.9	mg/kg	66		MCAWW 353.2	06/19-06/23/09	9170398
	10.2	50.7	42.2	mg/kg	63	3.9	MCAWW 353.2	06/19-06/23/09	9170398
Dilution Factor: 1									

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

June 30, 2009

TestAmerica Project Number: G9F100247

PO/Contract: 23/19-B05.07SOC350

Kelly Nepl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Dear Ms. Nepl,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on June 10, 2009. These samples are associated with your UMore Park project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4442.

Sincerely,



Karen M. Sellers
Project Manager

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TestAmerica West Sacramento Project Number G9F100247

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

General Chemistry - Various Methods

Samples: 1, 2

 Sample Data Sheet

 Method Blank Report

 Laboratory QC Reports

Case Narrative

TestAmerica West Sacramento Project Number G9F100247

There are no anomalies associated with this project.

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	NA

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G9F100247

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
LEM3R	1	SOC1-GP1,0-4	6/8/2009 01:30 PM	6/10/2009 08:55 AM
LEM3W	2	SOC1-GP2,0-4	6/8/2009 02:00 PM	6/10/2009 08:55 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

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 H:\RLG\STDFORMS\CHANGST\CDR
 TestAmerica West-Sacramento (916) 377-5600

Project Number: *07*
 23/19-BOS, SOC350

No 17703
 Matrix: Water, Soil, Other, Grab, Comp.
 Type: QC

Sample Identification	Collection		Water	Soil	Other	Grab	Comp.	QC
	Date	Time						
1. SOCL-GPI, 04	6/8/09	1330	X			X		
2. SOCL-GPJ, 04	6/8/09	1400	X			X		
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								
11.								
12.								
13.								
14.								
15.								
16.								

Number of Containers/Preservative	
Volatle Organic (Unpres.)	
Volatle Organic (Pres.)	
Semivolatle Organic	
Total Metals (HNO ₃)	
Dissolved Metals (HNO ₃)	
General (Unpreserved)	
Cyanide (NaOH, Asc. Acid)	
Nutrients (H ₂ SO ₄)	
Oil and Grease (H ₂ SO ₄)	
TOC (H ₂ SO ₄)	
Sulfide (Zn Acetate)	
Dioxin	
Whirlpak	
Total Phenol (H ₂ SO ₄)	
Methane	
(HCL)/DRO, IL Glass	
Lugols, Glass, Amber	
Formalin, Glass	
Nitrocellulose	

Project Manager: **SME**
 Project Contact: *Kelly Neppi*
 Laboratory: **Test America**
 Remarks/Analysis Required:

Total No. Of Containers	Remarks/Analysis Required
2	Method 353.2
2	1

Sampled By: *EJC*
 Remarks:

Relinquished By: <i>Meg Lindsey</i>	Date: 6-9-09	Time: 07:30	Received by: <i>Subar</i>	Date: 6-9	Time: 12:30
Relinquished By: <i>Subar</i>	Date: 6-9	Time:	Received by: <i>Clyde</i>	Date: 6-10-09	Time: 11:20
Samples Shipped VIA <input type="checkbox"/> Air <input type="checkbox"/> Freight <input type="checkbox"/> Fed. Exp. <input type="checkbox"/> Sampler <input type="checkbox"/> Other			Air Bill Number:		

CLIENT Bavv PM KS LOG # 58983

LOT# (QUANTIMS ID) G9F100247 QUOTE# 83148 LOCATION W21B

DATE RECEIVED 6-10-09 TIME RECEIVED 855 Initials AL Date 6-10-09

DELIVERED BY FEDEX CA OVERNIGHT CLIENT
 AIRBORNE GOLDENSTATE DHL
 UPS BAX GLOBAL GO-GETTERS
 TAL COURIER VALLEY LOGISTICS MORGAN HILL COURIER
 OTHER

CUSTODY SEAL STATUS INTACT BROKEN N/A

CUSTODY SEAL #(S) Seal

SHIPPING CONTAINER(S) TAL CLIENT N/A

TEMPERATURE RECORD (IN °C) IR 4 5 OTHER

COC #(S) N/A 17703

TEMPERATURE BLANK Observed: 0 Corrected: 2

SAMPLE TEMPERATURE Observed: 2 1 2 Average: 2 Corrected Average: 2

COLLECTOR'S NAME: Verified from COC Not on COC

pH MEASURED YES ANOMALY N/A

LABELED BY:

LABELS CHECKED BY:

PEER REVIEW NA

SHORT HOLD TEST NOTIFICATION SAMPLE RECEIVING
WETCHEM N/A
VOA-ENCORES N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES N/A

CLOUSEAU TEMPERATURE EXCEEDED (2 °C - 6 °C) N/A

WET ICE BLUE ICE GEL PACK NO COOLING AGENTS USED PM NOTIFIED

Notes: _____

Lot

ID:

G9F100247

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
___AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
___CGJ																				
500CGJ																				
250CGJ																				
125CGJ	2	2																		
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
___"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				

h = hydrochloric acid s = sulfuric acid na = sodium hydroxide n = nitric acid zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

LEAVE NO SPACES BLANK. USE "NA" IF NOT APPLICABLE.

QA-185 4/09 RKE

General Chemistry - Various Methods

Barr Engineering Company

Client Sample ID: SOC1-GP1,0-4

General Chemistry

Lot-Sample #...: G9F100247-001 Work Order #...: LEM3R Matrix.....: SOLID
Date Sampled...: 06/08/09 Date Received...: 06/10/09
% Moisture.....: 5.8

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	5.3	mg/kg	MCAWW 353.2	06/19-06/23/09	9170398
		Dilution Factor: 1				
Percent Moisture	5.8	0.10	%	ASTM D 2216-90	06/27-06/29/09	9178030
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC1-GP2,0-4

General Chemistry

Lot-Sample #...: G9F100247-002 Work Order #...: LEM3W Matrix.....: SOLID
Date Sampled...: 06/08/09 Date Received...: 06/10/09
% Moisture.....: 26

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	6.8	mg/kg	MCAWW 353.2	06/19-06/23/09	9170398
			Dilution Factor: 1			
Percent Moisture	26.2	0.10	%	ASTM D 2216-90	06/27-06/29/09	9178030
			Dilution Factor: 1			

NOTE(S):

RL Reporting Limit
Results and reporting limits have been adjusted for dry weight.

QC DATA ASSOCIATION SUMMARY

G9F100247

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	SOLID	ASTM D 2216-90		9178030	9178011
	SOLID	MCAWW 353.2		9170398	9170223
002	SOLID	ASTM D 2216-90		9178030	9178011
	SOLID	MCAWW 353.2		9170398	9170223

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9F100247

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Nitrocellulose	ND	Work Order #: LFALH1AA 5.0	mg/kg	MB Lot-Sample #: MCAWW 353.2	G9F190000-398 06/19-06/23/09	9170398
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9F100247

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	58	(34 - 115)	MCAWW 353.2	06/19-06/23/09	9170398

Work Order #: LFALH1AC LCS Lot-Sample#: G9F190000-398
Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9F100247

Matrix.....: SOLID

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCNT</u> <u>RECVRY</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Nitrocellulose	50.7	29.2	mg/kg	58	MCAWW 353.2	06/19-06/23/09	9170398

Work Order #: LFALH1AC LCS Lot-Sample#: G9F190000-398
Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9F100247

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/16/09

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose							
	66	(34 - 115)			MCAWW 353.2	06/19-06/23/09	9170398
	63	(34 - 115)	3.9	(0-71)	MCAWW 353.2	06/19-06/23/09	9170398
			Dilution Factor: 1				

% Moisture.....: 0.0

WO#: LE1741AC-MS/LE1741AD-MSD MS Lot-Sample #: G9F160229-003

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9F100247

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/16/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
% Moisture.....: 0.0									
Nitrocellulose			WO#: LE1741AC-MS/LE1741AD-MSD		MS Lot-Sample #:	G9F160229-003			
	10.2	50.7	43.9	mg/kg	66		MCAWW 353.2	06/19-06/23/09	9170398
	10.2	50.7	42.2	mg/kg	63	3.9	MCAWW 353.2	06/19-06/23/09	9170398
Dilution Factor: 1									

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: G9F100247

Work Order #...: LEK6A-SMP
LEK6A-DUP

Matrix.....: SOLID

Date Sampled...: 06/05/09

Date Received...: 06/09/09

% Moisture.....: 17

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>RESULT</u>		<u>RPD</u>	<u>LIMIT</u>		<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Moisture	16.6	17.2	%	3.9	(0-20)	ASTM D 2216-90	SD Lot-Sample #: G9F090245-001 06/27-06/29/09	9178030

Dilution Factor: 1

June 30, 2009

TestAmerica Project Number: G9F110326

PO/Contract: 231/19-B05SOC350

Kelly Nepl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Dear Ms. Nepl,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on June 11, 2009. These samples are associated with your UMore Park project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4442.

Sincerely,



Karen M. Sellers
Project Manager

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TestAmerica West Sacramento Project Number G9F110326

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

General Chemistry - Various Methods

Samples: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Sample Data Sheet

Method Blank Report

Laboratory QC Reports

Case Narrative

TestAmerica West Sacramento Project Number G9F110326

General Comments

Please note that sample temperature was measured as 7 degrees Celsius (C) at time of receipt. The temperature of the temperature blank was measured as 4 degrees C. The client was notified.

The sample SOC3-TT2-3-4' was labeled as SOC3-TT3-3-4'. The sample container was associated with that on the chain of custody (COC) using the collection time.

WATER, 314.0, Perchlorate

Sample: 8

The noted sample was diluted prior to analysis due to matrix interference. The conductivities of the samples were less than that of the MCT standard indicating that common anions were not high enough to obscure the perchlorate peak. Some other interfering substance(s) in these samples caused very high background and would have obscured the baseline where perchlorate elutes had they been analyzed at 1x. Low level spikes near the RL were prepared for each sample at the dilution it was analyzed at to ensure perchlorate could be detected if present. These spikes are not reported. All samples were ND for the analyte of interest. Reporting limits were adjusted accordingly.

There were no other anomalies associated with this project.

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	NA

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G9F110326

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
LEQ0V	1	SOC3-TT7-0.5-1'	6/8/2009 11:00 AM	6/11/2009 09:00 AM
LEQ04	2	SOC3-TT8-0.5-1'	6/8/2009 01:00 PM	6/11/2009 09:00 AM
LEQ07	3	SOC3-TT1-1-2'	6/9/2009 10:00 AM	6/11/2009 09:00 AM
LEQ1A	4	SOC3-TT1S-3-4'	6/9/2009 10:30 AM	6/11/2009 09:00 AM
LEQ1C	5	SOC3-TT1S-5'	6/9/2009 10:45 AM	6/11/2009 09:00 AM
LEQ1E	6	SOC3-TT2-5'	6/9/2009 02:00 PM	6/11/2009 09:00 AM
LEQ1F	7	SOC3-TT2-3-4'	6/9/2009 02:30 PM	6/11/2009 09:00 AM
LEQ1G	8	SOC3-GP3	6/9/2009 09:00 AM	6/11/2009 09:00 AM
LEQ1N	9	SOC1-GP3,0-4	6/9/2009 12:00 PM	6/11/2009 09:00 AM
LEQ1Q	10	SOC1-DUP-4	6/9/2009 12:05 PM	6/11/2009 09:00 AM
LEQ1T	11	SOC1-GP3	6/9/2009 02:00 PM	6/11/2009 09:00 AM
LEQ10	12	SOC1-DUP-5	6/9/2009 02:05 PM	6/11/2009 09:00 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

BARR

Chain of Custody

4700 West 77th Street
Minneapolis, MN 55435-4803
(952) 832-2600

Project Number
23 / 19 - B05 SOC 350

Project Name
UMore PHZ No 28189

Sample Identification	Collection		Matrix		Type	
	Date	Time	Water	Soil	Grab	Comp.

Sample Identification	Collection		Matrix		Type	
	Date	Time	Water	Soil	Grab	Comp.
1. SOC3-TT7-0.5-1'	6/8/09	1100	X		X	
2. SOC3-TT8-0.5-1'	6/8/09	1300	X		X	
3. SOC3-TT1-1-2'	6/9/09	1000	X		X	
4. SOC3-TT15-3-4'	/	1030	X		X	
5. SOC3-TT15-5'	/	1045	X		X	
6. SOC3-TT2-5'	/	1400	X		X	
7. SOC3-TT2-3-4'	/	1430	X		X	
8.						
9.						
10.						
11. * labeled TT3- on 6-11-09						
12.						

- Common Parameter/Container - Preservation Key
- *1 - Volatile Organics = BTEX, GRO, TPH, Full List
 - *2 - Semivolatile Organics = PAHs, PCP, Dioxins, Full List, Herbicide/Pesticide/PCBs
 - *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
 - *4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Number of Containers/Preservative																			
Water										Soil									
Volatiles Organics (Pres.) *1	Semivolatile Organics *2	Dissolved Metals (HNO ₃)	Total Metals (HNO ₃)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H ₂ SO ₄) *4	Oil and Grease (H ₂ SO ₄)	Sulfide (Zn Acetate)	Methane	Bacteria (Na ₂ S ₂ O ₃)	DRO (HCl)	VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH) *1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)	Nitrocellulose	Total No. Of Containers

COC 1 of 1

Project Manager: JME/JSA

Project Contact: MSH/KJN

Sampled by: KLB

Laboratory: Test America

Remarks:

Analyze Nitrocellulose

↓

Relinquished By: <u>[Signature]</u>	On Ice? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Date: <u>6/10/09</u>	Time: <u>745</u>	Received by: <u>[Signature]</u>	Date: <u>6</u>	Time: <u>15:00</u>
Relinquished By: <u>[Signature]</u>	On Ice? <input type="checkbox"/> Y <input type="checkbox"/> N	Date: <u>6-10</u>	Time:	Received by: <u>[Signature]</u>	Date: <u>6-11-09</u>	Time: <u>1330</u>
Samples Shipped VIA: <input type="checkbox"/> Air Freight <input type="checkbox"/> Federal Express <input type="checkbox"/> Sampler <input type="checkbox"/> Other				Air Bill Number:		

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

99-110326

Chain of Custody

BARR
 4700 West 77th Street
 Minneapolis, MN 55435-4803
 (952) 832-2600

Project Number
 23-19-BOS SOC350
 No 17706

Sample Identification	Collection		Matrix			Type	
	Date	Time	Water	Soil	Other	Grab	Comp.

1. SOC3-GP3	6-9-09	0900	X			X	
2. SOC1-GP3-D-4	6-9-09	1200		X		X	
3. SOC1-DUP-4	6-9-09	1205		X		X	
4. SOC1-GP3	6-9-09	1400	X			X	
5. SOC1-DUP-5	6-9-09	1405	X			X	
6.							
7.							
8.							
9.							
10.							
11.							
12.							
13.							
14.							
15.							
16.							

Number of Containers/Preservative															
Volatle Organic (Unpres.)															
Volatle Organic (Pres.)															
Semivolatle Organic															
Total Metals (HNO ₃)															
Dissolved Metals (HNO ₃)															
General (Unpreserved)															
Cyanide (NaOH, Asc. Acid)															
Nutrients (H ₂ SO ₄)															
Oil and Grease (H ₂ SO ₄)															
TOC (H ₂ SO ₄)															
Sulfide (Zn Acetate)															
Dioxin															
Whirlpak															
Total Phenol (H ₂ SO ₄)															
Methane															
(HCL)/DRO, 1L Glass															
Lugols, Glass, Amber															
Formalin, Glass															
Nitrocellulose															
Perchlorate															

Total No. Of Containers: [blank]

Project Manager: **JME**

Project Contact: **Kelly Neppi**

Laboratory: **Test America**

Remarks/Analysis Required:

2 Nitrocellulose - Method 353.2 Mod

2 Perchlorate - Method 314

2

2

2

2

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2

2

2

2

2

Sampled By: ESC	Relinquished By: guy	Date: 6-10-09	Time: 0900	Received by: [Signature]	Date: 6-10	Time: 1330
	Relinquished By: [Signature]	Date: 6-10	Time:	Received by: [Signature]	Date: 6-11-09	Time: 1330
Remarks: On ice	Samples Shipped VIA: <input type="checkbox"/> Air Freight <input type="checkbox"/> Fed. Exp. <input type="checkbox"/> Sampler <input type="checkbox"/> Other		Air Bill Number:			

H:\RLG\STD\FORMS\CHAINCST.CDR

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

CLIENT Barv PM KS LOG# 59007

LOT# (QUANTIMS ID) G9#110326 QUOTE# 83148 LOCATION USA

DATE RECEIVED 6-11-09 TIME RECEIVED 900 Initials CS Date 6-11-09

DELIVERED BY FEDEX CA OVERNIGHT CLIENT
 AIRBORNE GOLDENSTATE DHL
 UPS BAX GLOBAL GO-GETTERS
 TAL COURIER VALLEY LOGISTICS MORGAN HILL COURIER
 OTHER

CUSTODY SEAL STATUS INTACT BROKEN N/A

CUSTODY SEAL #(S) _____
SHIPPING CONTAINER(S) TAL CLIENT N/A

TEMPERATURE RECORD (IN °C) IR 4 5 OTHER _____

COC #(S) 28189, 17706

TEMPERATURE BLANK Observed: 2 Corrected: 4

SAMPLE TEMPERATURE Observed: 6 7 8 Average: 7 Corrected Average: 7

COLLECTOR'S NAME: Verified from COC Not on COC

pH MEASURED YES ANOMALY N/A

LABELED BY _____

LABELS CHECKED BY _____

PEER REVIEW NA

SHORT HOLD TEST NOTIFICATION SAMPLE RECEIVING
WETCHEM N/A
VOA-ENCORES N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES N/A

CLOUSEAU TEMPERATURE EXCEEDED (2 °C - 6 °C)¹ N/A

WET ICE BLUE ICE GEL PACK NO COOLING AGENTS USED PM NOTIFIED

Notes: 50C3-TT2-3-4' labeled 50C3-TT3-3-4'

Lot ID: _____

G9F110-326

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
___AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
___CGJ																				
500CGJ																				
250CGJ																				
125CGJ	2	2	2	2	2	2	2		2	2										
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
___"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				

h = hydrochloric acid s = sulfuric acid na = sodium hydroxide n = nitric acid zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

LEAVE NO SPACES BLANK. USE "NA" IF NOT APPLICABLE.

QA-185 4/09 RKE

General Chemistry - Various Methods

Barr Engineering Company

Client Sample ID: SOC3-TT7-0.5-1'

General Chemistry

Lot-Sample #...: G9F110326-001 Work Order #...: LEQ0V Matrix.....: SOLID
Date Sampled...: 06/08/09 Date Received...: 06/11/09
% Moisture.....: 8.8

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	5.5	mg/kg	MCAWW 353.2	06/19-06/23/09	9170398
		Dilution Factor: 1				
Percent Moisture	8.8	0.10	%	ASTM D 2216-90	06/27-06/29/09	9178030
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC3-TT8-0.5-1'

General Chemistry

Lot-Sample #...: G9F110326-002 Work Order #...: LEQ04 Matrix.....: SOLID
Date Sampled...: 06/08/09 Date Received...: 06/11/09
% Moisture.....: 25

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	6.6	mg/kg	MCAWW 353.2	06/19-06/23/09	9170398
			Dilution Factor: 1			
Percent Moisture	24.7	0.10	%	ASTM D 2216-90	06/27-06/29/09	9178030
			Dilution Factor: 1			

NOTE(S):

RL Reporting Limit
Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC3-TT1-1-2'

General Chemistry

Lot-Sample #...: G9F110326-003 Work Order #...: LEQ07 Matrix.....: SOLID
Date Sampled...: 06/09/09 Date Received...: 06/11/09
% Moisture.....: 7.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	5.4	mg/kg	MCAWW 353.2	06/19-06/23/09	9170398
			Dilution Factor: 1			
Percent Moisture	7.0	0.10	%	ASTM D 2216-90	06/27-06/29/09	9178030
			Dilution Factor: 1			

NOTE(S):

RL Reporting Limit
Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC3-TT1S-3-4'

General Chemistry

Lot-Sample #...: G9F110326-004 Work Order #...: LEQ1A Matrix.....: SOLID
Date Sampled...: 06/09/09 Date Received...: 06/11/09
% Moisture.....: 5.5

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	5.3	mg/kg	MCAWW 353.2	06/19-06/23/09	9170398
			Dilution Factor: 1			
Percent Moisture	5.5	0.10	%	ASTM D 2216-90	06/27-06/29/09	9178030
			Dilution Factor: 1			

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC3-TT1S-5'

General Chemistry

Lot-Sample #...: G9F110326-005 Work Order #...: LEQ1C Matrix.....: SOLID
Date Sampled...: 06/09/09 Date Received...: 06/11/09
% Moisture.....: 9.6

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	5.5	mg/kg	MCAWW 353.2	06/19-06/23/09	9170398
			Dilution Factor: 1			
Percent Moisture	9.6	0.10	%	ASTM D 2216-90	06/27-06/29/09	9178030
			Dilution Factor: 1			

NOTE(S):

RL Reporting Limit
Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC3-TT2-5'

General Chemistry

Lot-Sample #...: G9F110326-006 Work Order #...: LEQ1E Matrix.....: SOLID
Date Sampled...: 06/09/09 Date Received...: 06/11/09
% Moisture.....: 4.7

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	5.2	mg/kg	MCAWW 353.2	06/19-06/23/09	9170398
		Dilution Factor: 1				
Percent Moisture	4.7	0.10	%	ASTM D 2216-90	06/27-06/29/09	9178030
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit
Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC3-TT2-3-4'

General Chemistry

Lot-Sample #...: G9F110326-007 Work Order #...: LEQ1F Matrix.....: SOLID
Date Sampled...: 06/09/09 Date Received...: 06/11/09
% Moisture.....: 5.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	5.3	mg/kg	MCAWW 353.2	06/19-06/23/09	9170398
			Dilution Factor: 1			
Percent Moisture	5.2	0.10	%	ASTM D 2216-90	06/27-06/29/09	9178030
			Dilution Factor: 1			

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC3-GP3

General Chemistry

Lot-Sample #...: G9F110326-008

Work Order #...: LEQ1G

Matrix.....: WATER

Date Sampled...: 06/09/09

Date Received...: 06/11/09

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	06/23-06/25/09	9174192
		Dilution Factor: 1				
Perchlorate	ND G	8.0	ug/L	EPA-DW1 314.0	06/24/09	9176300
		Dilution Factor: 2				

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

Barr Engineering Company

Client Sample ID: SOC1-GP3,0-4

General Chemistry

Lot-Sample #...: G9F110326-009 Work Order #...: LEQ1N Matrix.....: SOLID
Date Sampled...: 06/09/09 Date Received...: 06/11/09
% Moisture.....: 18

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	6.1	mg/kg	MCAWW 353.2	06/19-06/23/09	9170398
			Dilution Factor: 1			
Percent Moisture	17.6	0.10	%	ASTM D 2216-90	06/27-06/29/09	9178030
			Dilution Factor: 1			

NOTE(S):

RL Reporting Limit
Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC1-DUP-4

General Chemistry

Lot-Sample #...: G9F110326-010 Work Order #...: LEQ1Q Matrix.....: SOLID
Date Sampled...: 06/09/09 Date Received...: 06/11/09
% Moisture.....: 12

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	5.7	mg/kg	MCAWW 353.2	06/19-06/23/09	9170398
			Dilution Factor: 1			
Percent Moisture	12.0	0.10	%	ASTM D 2216-90	06/27-06/29/09	9178030
			Dilution Factor: 1			

NOTE(S):

RL Reporting Limit
Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC1-GP3

General Chemistry

Lot-Sample #...: G9F110326-011

Work Order #...: LEQ1T

Matrix.....: WATER

Date Sampled...: 06/09/09

Date Received...: 06/11/09

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	06/23-06/25/09	9174192
		Dilution Factor: 1				
Perchlorate	ND	4.0	ug/L	EPA-DW1 314.0	06/24/09	9176300
		Dilution Factor: 1				

Barr Engineering Company

Client Sample ID: SOC1-DUP-5

General Chemistry

Lot-Sample #...: G9F110326-012

Work Order #...: LEQ10

Matrix.....: WATER

Date Sampled...: 06/09/09

Date Received...: 06/11/09

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	06/23-06/25/09	9174192
		Dilution Factor: 1				
Perchlorate	ND	4.0	ug/L	EPA-DW1 314.0	06/24/09	9176300
		Dilution Factor: 1				

QC DATA ASSOCIATION SUMMARY

G9F110326

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	SOLID	ASTM D 2216-90		9178030	9178011
	SOLID	MCAWW 353.2		9170398	9170223
002	SOLID	ASTM D 2216-90		9178030	9178011
	SOLID	MCAWW 353.2		9170398	9170223
003	SOLID	ASTM D 2216-90		9178030	9178011
	SOLID	MCAWW 353.2		9170398	9170223
004	SOLID	ASTM D 2216-90		9178030	9178011
	SOLID	MCAWW 353.2		9170398	9170223
005	SOLID	ASTM D 2216-90		9178030	9178011
	SOLID	MCAWW 353.2		9170398	9170223
006	SOLID	ASTM D 2216-90		9178030	9178011
	SOLID	MCAWW 353.2		9170398	9170223
007	SOLID	ASTM D 2216-90		9178030	9178011
	SOLID	MCAWW 353.2		9170398	9170223
008	WATER	MCAWW 353.2		9174192	9174129
	WATER	EPA-DW1 314.0		9176300	9176181
009	SOLID	ASTM D 2216-90		9178030	9178011
	SOLID	MCAWW 353.2		9170398	9170223
010	SOLID	ASTM D 2216-90		9178030	9178011
	SOLID	MCAWW 353.2		9170398	9170223
011	WATER	MCAWW 353.2		9174192	9174129
	WATER	EPA-DW1 314.0		9176300	9176181
012	WATER	MCAWW 353.2		9174192	9174129
	WATER	EPA-DW1 314.0		9176300	9176181

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9F110326

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Nitrocellulose	ND	Work Order #: LFALH1AA 5.0	mg/kg	MB Lot-Sample #: MCAWW 353.2	G9F190000-398 06/19-06/23/09	9170398
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9F110326

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Nitrocellulose	ND	Work Order #: LFFFP1AA 0.50	mg/L	MB Lot-Sample #: G9F230000-192 MCAWW 353.2	G9F230000-192 06/23-06/25/09	9174192
		Dilution Factor: 1				
Perchlorate	ND	Work Order #: LFLD81AA 4.0	ug/L	MB Lot-Sample #: G9F250000-300 EPA-DW1 314.0	G9F250000-300 06/24/09	9176300
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9F110326

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	58	(34 - 115)	MCAWW 353.2	06/19-06/23/09	9170398

Work Order #: LFALH1AC LCS Lot-Sample#: G9F190000-398
Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9F110326

Matrix.....: SOLID

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCNT</u> <u>RECVRY</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Nitrocellulose	50.7	29.2	mg/kg	58	MCAWW 353.2	06/19-06/23/09	9170398

Work Order #: LFALH1AC LCS Lot-Sample#: G9F190000-398
Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9F110326

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	79	Work Order #: LFFFP1AC (26 - 144)	LCS Lot-Sample#: G9F230000-192 MCAWW 353.2	06/23-06/25/09	9174192
		Dilution Factor: 1			
Perchlorate	110	Work Order #: LFLD81AC (85 - 115)	LCS Lot-Sample#: G9F250000-300 EPA-DW1 314.0	06/24/09	9176300
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9F110326

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCNT</u> <u>RECVRY</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>	
Nitrocellulose	2.03	1.61	mg/L	79	MCAWW 353.2	06/23-06/25/09	9174192	
			Work Order #: LFFFP1AC LCS Lot-Sample#: G9F230000-192					
			Dilution Factor: 1					
Perchlorate	50.0	54.9	ug/L	110	EPA-DW1 314.0	06/24/09	9176300	
			Work Order #: LFLD81AC LCS Lot-Sample#: G9F250000-300					
			Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9F110326

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/16/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose			WO#: LE1741AC-MS/LE1741AD-MSD		MS	Lot-Sample #: G9F160229-003	
	66	(34 - 115)			MCAWW 353.2	06/19-06/23/09	9170398
	63	(34 - 115)	3.9	(0-71)	MCAWW 353.2	06/19-06/23/09	9170398
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9F110326

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/16/09

PARAMETER	AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
% Moisture.....: 0.0									
Nitrocellulose			WO#: LE1741AC-MS/LE1741AD-MSD		MS Lot-Sample #: G9F160229-003				
	10.2	50.7	43.9	mg/kg	66		MCAWW 353.2	06/19-06/23/09	9170398
	10.2	50.7	42.2	mg/kg	63	3.9	MCAWW 353.2	06/19-06/23/09	9170398
Dilution Factor: 1									

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9F110326

Matrix.....: WATER

Date Sampled...: 06/09/09

Date Received...: 06/11/09

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose			WO#: LEQ1G1AD-MS/LEQ1G1AE-MSD		MS	Lot-Sample #: G9F110326-008	
	92	(26 - 144)			MCAWW 353.2	06/23-06/25/09	9174192
	99	(26 - 144)	7.2	(0-45)	MCAWW 353.2	06/23-06/25/09	9174192
			Dilution Factor: 1				
Perchlorate			WO#: LEQ1T1AD-MS/LEQ1T1AE-MSD		MS	Lot-Sample #: G9F110326-011	
	101	(80 - 120)			EPA-DW1 314.0	06/24/09	9176300
	104	(80 - 120)	2.4	(0-20)	EPA-DW1 314.0	06/24/09	9176300
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9F110326

Matrix.....: WATER

Date Sampled...: 06/09/09

Date Received...: 06/11/09

<u>PARAMETER</u>	<u>AMOUNT</u>	<u>SAMPLE SPIKE AMT</u>	<u>MEASRD AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose			WO#: LEQ1G1AD-MS/LEQ1G1AE-MSD MS Lot-Sample #: G9F110326-008						
ND	2.03		1.86	mg/L	92		MCAWW 353.2	06/23-06/25/09	9174192
ND	2.03		2.00	mg/L	99	7.2	MCAWW 353.2	06/23-06/25/09	9174192
			Dilution Factor: 1						
Perchlorate			WO#: LEQ1T1AD-MS/LEQ1T1AE-MSD MS Lot-Sample #: G9F110326-011						
ND	50.0		50.7	ug/L	101		EPA-DW1 314.0	06/24/09	9176300
ND	50.0		51.9	ug/L	104	2.4	EPA-DW1 314.0	06/24/09	9176300
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: G9F110326

Work Order #...: LEK6A-SMP
LEK6A-DUP

Matrix.....: SOLID

Date Sampled...: 06/05/09

Date Received...: 06/09/09

% Moisture.....: 17

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>RESULT</u>		<u>RPD</u>	<u>LIMIT</u>		<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Moisture	16.6	17.2	%	3.9	(0-20)	ASTM D 2216-90	SD Lot-Sample #: G9F090245-001 06/27-06/29/09	9178030

Dilution Factor: 1

July 11, 2009

TestAmerica Project Number: G9F160223

PO/Contract: 23/19-B05.07SOC350

Kelly Nepl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Dear Ms. Nepl,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on June 16, 2009. These samples are associated with your UMore Phase II project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4442.

Sincerely,



Karen M. Sellers
Project Manager

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TestAmerica West Sacramento Project Number G9F160223

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

General Chemistry - Various Methods

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Case Narrative

TestAmerica West Sacramento Project Number G9F160223

General Comments

Please note that three bottles for nitrocellulose analysis were received for sample MW-E2-009-although the chain of custody indicates one bottle. The client was notified.

The COC indicated that sample FB-1 was on hold. The client authorized the laboratory to proceed with the analysis of perchlorate and nitrocellulose for this sample on June 18, 2009.

WATER, 314.0, Perchlorate

Samples: 1, 2, 3, 4, 5

The above samples were diluted prior to analysis due to matrix interference. The conductivities of the samples were less than that of the MCT standard indicating that common anions were not high enough to obscure the perchlorate peak. Some other interfering substance(s) in these samples caused very high background and would have obscured the baseline where perchlorate elutes had they been analyzed at 1x. Low level spikes near the RL were prepared for each sample at the dilution it was analyzed at to ensure perchlorate could be detected if present. These spikes are not reported. All samples were ND for the analyte of interest. The reporting limits were adjusted accordingly.

There are no other anomalies associated with this project.

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	NA

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G9F160223

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
LE16Q	1	MW-B1-001	6/11/09 10:55	6/16/09 08:55
LE16T	2	MW-E2-209	6/11/09 13:10	6/16/09 08:55
LE16X	3	MW-E2-009	6/11/09 14:35	6/16/09 08:55
LE160	4	WSW-207605	6/11/09 16:35	6/16/09 08:55
LE164	5	FB-1	6/11/09 15:25	6/16/09 08:55

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Chain of Custody

BARR
 4700 West 77th Street
 Minneapolis, MN 55435-4803
 (952) 833-2600

Project Number: **23** / **19-0805**
 Project Name: **NO 26776**

Sample Identification	Collection		Matrix				Volatile Organics (Pres.) *1	Semivolatile Organics *2	Dissolved Metals (HNO ₃)	Total Metals (HNO ₃)	General (Unpreserved) *3	Cyanide (NaOH)	Nutrients (H ₂ SO ₄) *4	Oil and Grease (H ₂ SO ₄)	Sulfide (Zn Acetate)	Methane	Bacteria (Na ₂ S ₂ O ₃)	DRO (HCl)	VOCs (2-oz tared MeOH) *1	GRO, BTEX (2-oz tared MeOH) *1	DRO (2-oz tared) - 25 grams	Metals (2-oz unpreserved)	SVOCs (2 or 4-oz unpres.) *2	% Moisture (plastic vial, unpres.)	Total No. Of Containers
	Date	Time	Water	Soil	Grab	Comp.																			
1. MW-81-001	6/1/09	1055	✓	✓	✓	✓	1	1	1	1															2
2. MW-E2-209		1310	✓	✓	✓	✓	1	1	1																2
3. MW-E2-009		1435	✓	✓	✓	✓	1	1	1																2
4. WSW-207605		1635	✓	✓	✓	✓	1	1	1																2

- Common Parameter/Container - Preservation Key**
- *1 - Volatile Organics = BTEX, GRO, TPH, Full List
 - *2 - Semivolatile Organics = PAHs, PCB, Dioxins, Full List, Herbicide/Pesticide/CBS
 - *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
 - *4 - Nutrients = COD, TOC, Phosphorus, Ammonia Nitrogen, TKN

Requisitioned By: *[Signature]* Date: *6/1/09* Time: *10:55*

Received by: *[Signature]* Date: *6/1/09* Time: *1:30*

Samples Shipped Via: Air Freight Federal Express Sampler Other

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

check 3 bottles for nitrocellulose

Project Manager: *JME*

Project Contact: *KSN*

Sampled by: *KST*

Laboratory: *Test America*

Remarks: *Perchlorate, Nitrocellulose*

Chain of Custody

4700 West 77th Street
 Minneapolis, MN 55435-4803
 (952) 832-2600
 SOCC 300

Project Number: 23 / 19-0B05
 Project Name: ~~XXXXXXXXXX~~

NO 26775

Sample Identification	Collection		Water	Soil	Grab Comp.	QC
	Date	Time				
1 FB-1	6/11/09	1525	✓			
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Matrix Type	Number of Containers/Preservative	
	Water	Soil
Volatiles Organics (Pres.)*1		
Semivolatile Organics *2		
Dissolved Metals (HNO ₃)		
Total Metals (HNO ₃)		
General (Unpreserved)*3		
Cyanide (NaOH)		
Nutrients (H ₂ SO ₄)*4		
Oil and Grease (H ₂ SO ₄)		
Sulfide (Zn Acetate)		
Methane		
Bacteria (Na ₂ S ₂ O ₃)		
DRO (HCl)		
VOCs (2-oz tared MeOH)*1		
GRO, BTEX (2-oz tared MeOH)*1		
DRO (2-oz tared) - 25 grams		
Metals (2-oz unpreserved)		
SVOCs (2 or 4-oz unpres.)*2		
% Moisture (plastic vial, unpres.)		
Total No. Of Containers		

COC _____ of _____

Project Manager: JME

Project Contact: KJM

Sampled by: KSS

Laboratory: Test America

Remarks: Perchlorate Nitrocellulose

**HOLD FB-1 - container
 SME before
 and analysis**

Common Parameter/Container - Preservation Key
 *1 - Volatile Organics = BTEX, GRO TPH, Full List
 *2 - Semivolatile Organics = PAHs, PCB, Dioxins, Full List, Herbicide/Pesticide/PCBs
 *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS, TDS, TS, Sulfate
 *4 - Nutrients = COD, TOC, Phenols, Ammonia Nitrogen, TKN

Relinquished By: <u>[Signature]</u>	On Ice? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Date: <u>6/11/09</u>	Time: _____	Received By: <u>[Signature]</u>	Received Date: <u>12/21/05</u>	Time: <u>1:30</u>
Relinquished By: <u>[Signature]</u>	On Ice? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Date: _____	Time: _____	Received By: <u>[Signature]</u>	Date: <u>6/20/09</u>	Time: <u>1:30</u>

Samples Shipped Via: Air Freight Federal Express Sampler other _____

Distribution: White-Original Accompanies Shipment to Lab; Yellow - Field Copy; Pink - Lab Coordinator

CLIENT Barr PM KS LOG# 59079

LOT# (QUANTIMS ID) G9F160223 QUOTE# 83148 LOCATION W10B

DATE RECEIVED 6-16-09 TIME RECEIVED 835 Initials aw Date 6-16-09

DELIVERED BY FEDEX CA OVERNIGHT CLIENT
 AIRBORNE GOLDENSTATE DHL
 UPS BAX GLOBAL GO-GETTERS
 TAL COURIER VALLEY LOGISTICS MORGAN HILL COURIER
 OTHER

CUSTODY SEAL STATUS INTACT BROKEN N/A

CUSTODY SEAL #(S) _____

SHIPPING CONTAINER(S) TAL CLIENT N/A

TEMPERATURE RECORD (IN °C) IR 4 5 OTHER _____

COC #(S) 26776, 26775

TEMPERATURE BLANK Observed: 2 Corrected: 2

SAMPLE TEMPERATURE
Observed: 2 1 2 Average: 2 Corrected Average: 2

COLLECTOR'S NAME: Verified from COC Not on COC

pH MEASURED YES ANOMALY N/A

LABELED BY _____

LABELS CHECKED BY _____

PEER REVIEW NA

SHORT HOLD TEST NOTIFICATION SAMPLE RECEIVING
WETCHEM N/A
VOA-ENCORES N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES N/A

CLOUSEAU TEMPERATURE EXCEEDED (2 °C - 6 °C)¹ N/A

WET ICE BLUE ICE GEL PACK NO COOLING AGENTS USED PM NOTIFIED

Notes: MW-E2-009 - rec'd 3 bottles for Nitrocellulose, COC list + 1.

Lot ID: 69F160223

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AGB																				
AGBs																				
250AGB			3																	
250AGBs																				
250AGBn																				
500AGB																				
___AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
___CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
___"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				

h = hydrochloric acid s = sulfuric acid na = sodium hydroxide n = nitric acid zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

General Chemistry - Various Methods

Barr Engineering Company

Client Sample ID: MW-B1-001

General Chemistry

Lot-Sample #...: G9F160223-001

Work Order #...: LE16Q

Matrix.....: WATER

Date Sampled...: 06/11/09

Date Received...: 06/16/09

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	07/07-07/08/09	9188206
		Dilution Factor: 1				
Perchlorate	ND G	8.0	ug/L	EPA-DW1 314.0	06/24/09	9176300
		Dilution Factor: 2				

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

Barr Engineering Company

Client Sample ID: MW-E2-209

General Chemistry

Lot-Sample #...: G9F160223-002

Work Order #...: LE16T

Matrix.....: WATER

Date Sampled...: 06/11/09

Date Received...: 06/16/09

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	07/07-07/08/09	9188206
		Dilution Factor: 1				
Perchlorate	ND G	8.0	ug/L	EPA-DW1 314.0	06/24/09	9176300
		Dilution Factor: 2				

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

Barr Engineering Company

Client Sample ID: MW-E2-009

General Chemistry

Lot-Sample #...: G9F160223-003

Work Order #...: LE16X

Matrix.....: WATER

Date Sampled...: 06/11/09

Date Received...: 06/16/09

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	07/07-07/08/09	9188206
		Dilution Factor: 1				
Perchlorate	ND G	40.0	ug/L	EPA-DW1 314.0	06/24/09	9176300
		Dilution Factor: 10				

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

Barr Engineering Company

Client Sample ID: WSW-207605

General Chemistry

Lot-Sample #...: G9F160223-004

Work Order #...: LE160

Matrix.....: WATER

Date Sampled...: 06/11/09

Date Received...: 06/16/09

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	07/07-07/08/09	9188206
		Dilution Factor: 1				
Perchlorate	ND G	40.0	ug/L	EPA-DW1 314.0	06/24/09	9176300
		Dilution Factor: 10				

NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

Barr Engineering Company

Client Sample ID: FB-1

General Chemistry

Lot-Sample #...: G9F160223-005

Work Order #...: LE164

Matrix.....: WATER

Date Sampled...: 06/11/09

Date Received...: 06/16/09

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	07/07-07/08/09	9188206
		Dilution Factor: 1				
Perchlorate	ND	4.0	ug/L	EPA-DW1 314.0	06/24/09	9176300
		Dilution Factor: 1				

QC DATA ASSOCIATION SUMMARY

G9F160223

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	MCAWW 353.2		9188206	9188120
	WATER	EPA-DW1 314.0		9176300	9176181
002	WATER	MCAWW 353.2		9188206	9188120
	WATER	EPA-DW1 314.0		9176300	9176181
003	WATER	MCAWW 353.2		9188206	9188120
	WATER	EPA-DW1 314.0		9176300	9176181
004	WATER	MCAWW 353.2		9188206	9188120
	WATER	EPA-DW1 314.0		9176300	9176181
005	WATER	MCAWW 353.2		9188206	9188120
	WATER	EPA-DW1 314.0		9176300	9176181

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9F160223

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Nitrocellulose	ND	Work Order #: LF4T91AA 0.50	mg/L	MB Lot-Sample #: MCAWW 353.2	G9G070000-206 07/07-07/08/09	9188206
		Dilution Factor: 1				
Perchlorate	ND	Work Order #: LFLD81AA 4.0	ug/L	MB Lot-Sample #: EPA-DW1 314.0	G9F250000-300 06/24/09	9176300
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9F160223

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	94	Work Order #: LF4T91AC (26 - 144)	LCS Lot-Sample#: G9G070000-206 MCAWW 353.2	07/07-07/08/09	9188206
		Dilution Factor: 1			
Perchlorate	110	Work Order #: LFLD81AC (85 - 115)	LCS Lot-Sample#: G9F250000-300 EPA-DW1 314.0	06/24/09	9176300
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9F160223

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCNT</u> <u>RECVRY</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Nitrocellulose	2.03	1.90	mg/L	94	MCAWW 353.2	07/07-07/08/09	9188206
				Work Order #: LF4T91AC LCS Lot-Sample#: G9G070000-206			
				Dilution Factor: 1			
Perchlorate	50.0	54.9	ug/L	110	EPA-DW1 314.0	06/24/09	9176300
				Work Order #: LFLD81AC LCS Lot-Sample#: G9F250000-300			
				Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9F160223

Matrix.....: WATER

Date Sampled...: 06/19/09

Date Received...: 06/20/09

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose			WO#: LFDAH1AC-MS/LFDAH1AD-MSD		MS	Lot-Sample #: G9F200215-009	
	80	(26 - 144)			MCAWW 353.2	07/07-07/08/09	9188206
	90	(26 - 144)	12	(0-45)	MCAWW 353.2	07/07-07/08/09	9188206
			Dilution Factor: 1				
Perchlorate			WO#: LEQ1T1AD-MS/LEQ1T1AE-MSD		MS	Lot-Sample #: G9F110326-011	
	101	(80 - 120)			EPA-DW1 314.0	06/24/09	9176300
	104	(80 - 120)	2.4	(0-20)	EPA-DW1 314.0	06/24/09	9176300
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9F160223

Matrix.....: WATER

Date Sampled...: 06/19/09

Date Received...: 06/20/09

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose									
			WO#: LFDAH1AC-MS/LFDAH1AD-MSD MS Lot-Sample #: G9F200215-009						
ND	2.03		1.63	mg/L	80		MCAWW 353.2	07/07-07/08/09	9188206
ND	2.03		1.83	mg/L	90	12	MCAWW 353.2	07/07-07/08/09	9188206
Dilution Factor: 1									
Perchlorate									
			WO#: LEQ1T1AD-MS/LEQ1T1AE-MSD MS Lot-Sample #: G9F110326-011						
ND	50.0		50.7	ug/L	101		EPA-DW1 314.0	06/24/09	9176300
ND	50.0		51.9	ug/L	104	2.4	EPA-DW1 314.0	06/24/09	9176300
Dilution Factor: 1									

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

July 11, 2009

TestAmerica Project Number: G9F160229

PO/Contract: 23/19-B05.07SOC350

Kelly Nepl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Dear Ms. Nepl,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on June 16, 2009. These samples are associated with your UMore Phase II project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4442.

Sincerely,



Karen M. Sellers
Project Manager

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TestAmerica West Sacramento Project Number G9F160229

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

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Samples: 1, 2, 3

Sample Data Sheet

Method Blank Report

Laboratory QC Reports

Case Narrative

TestAmerica West Sacramento Project Number G9F160229

WATER, 353.2, Nitrocellulose

Samples: 1, 2

There was insufficient sample volume to prepare a matrix spike/matrix spike duplicate (MS/MSD) pair with this batch.

There are no other anomalies associated with this project.

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	NA

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G9F160229

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
LE170	1	GP-FB-1(WATER)	6/10/09 12:00	6/16/09 08:55
LE172	2	GP-FB-2(SOIL)	6/10/09 13:00	6/16/09 08:55
LE174	3	SS5	6/11/09 17:00	6/16/09 08:55

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CLIENT Barr PM KS LOG # 39080
LOT# (QUANTIMS ID) G9F160229 QUOTE# 83148 LOCATION W10B

DATE RECEIVED 6-16-09 TIME RECEIVED 855 Initials AS Date 6-16-09

DELIVERED BY FEDEX CA OVERNIGHT CLIENT
 AIRBORNE GOLDENSTATE DHL
 UPS BAX GLOBAL GO-GETTERS
 TAL COURIER VALLEY LOGISTICS MORGAN HILL COURIER
 OTHER

CUSTODY SEAL STATUS INTACT BROKEN N/A

CUSTODY SEAL #(S) _____

SHIPPING CONTAINER(S) TAL CLIENT N/A

TEMPERATURE RECORD (IN °C) IR 4 5 OTHER _____

COC #(S) 28507

TEMPERATURE BLANK Observed: 2 Corrected: 2

SAMPLE TEMPERATURE
Observed: 2 1 2 Average: 2 Corrected Average: 2

COLLECTOR'S NAME: Verified from COC Not on COC

pH MEASURED YES ANOMALY N/A

LABELED BY.....

LABELS CHECKED BY.....
PEER REVIEW NA

SHORT HOLD TEST NOTIFICATION SAMPLE RECEIVING
WETCHEM N/A
VOA-ENCORES N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES N/A

CLOUSEAU TEMPERATURE EXCEEDED (2 °C - 6 °C)¹ N/A

WET ICE BLUE ICE GEL PACK NO COOLING AGENTS USED PM NOTIFIED

Notes: _____

Vertical lines and arrows indicating tracking or status for each row.

Lot

ID:

G9F160229

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AGB																				
AGBs																				
250AGB	1	1																		
250AGBs																				
250AGBn																				
500AGB																				
___AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
___CGJ																				
500CGJ																				
250CGJ																				
125CGJ			1																	
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ	1																			
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
___"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				

h = hydrochloric acid s = sulfuric acid na = sodium hydroxide n = nitric acid zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 4/09 RKE

LEAVE NO SPACES BLANK. USE "NA" IF NOT APPLICABLE.

General Chemistry - Various Methods

Barr Engineering Company

Client Sample ID: GP-FB-1(WATER)

General Chemistry

Lot-Sample #...: G9F160229-001

Work Order #...: LE170

Matrix.....: WATER

Date Sampled...: 06/10/09

Date Received...: 06/16/09

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	07/01-07/02/09	9182334
		Dilution Factor: 1				
Perchlorate	ND	4.0	ug/L	EPA-DW1 314.0	06/24/09	9176300
		Dilution Factor: 1				

Barr Engineering Company

Client Sample ID: GP-FB-2(SOIL)

General Chemistry

Lot-Sample #...: G9F160229-002

Work Order #...: LE172

Matrix.....: WATER

Date Sampled...: 06/10/09

Date Received...: 06/16/09

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	07/01-07/02/09	9182334

Dilution Factor: 1

Barr Engineering Company

Client Sample ID: SS5

General Chemistry

Lot-Sample #...: G9F160229-003

Work Order #...: LE174

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/16/09

% Moisture.....: 20

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	12.8	6.3	mg/kg	MCAWW 353.2	06/19-06/23/09	9170398
			Dilution Factor: 1			
Percent Moisture	20.2	0.10	%	ASTM D 2216-90	07/01-07/02/09	9182358
			Dilution Factor: 1			

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

QC DATA ASSOCIATION SUMMARY

G9F160229

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	MCAWW 353.2		9182334	
	WATER	EPA-DW1 314.0		9176300	9176181
002	WATER	MCAWW 353.2		9182334	
003	SOLID	ASTM D 2216-90		9182358	9182238
	SOLID	MCAWW 353.2		9170398	9170223

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9F160229

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Nitrocellulose	ND	Work Order #: LFALH1AA 5.0	mg/kg	MB Lot-Sample #: MCAWW 353.2	G9F190000-398 06/19-06/23/09	9170398
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9F160229

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Nitrocellulose	ND	Work Order #: LFX4L1AA 0.50	mg/L	MB Lot-Sample #: MCAWW 353.2	G9G010000-334 07/01-07/02/09	9182334
		Dilution Factor: 1				
Perchlorate	ND	Work Order #: LFLD81AA 4.0	ug/L	MB Lot-Sample #: EPA-DW1 314.0	G9F250000-300 06/24/09	9176300
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9F160229

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	58	(34 - 115)	MCAWW 353.2	06/19-06/23/09	9170398

Work Order #: LFALH1AC LCS Lot-Sample#: G9F190000-398
Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9F160229

Matrix.....: SOLID

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCNT</u> <u>RECVRY</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Nitrocellulose	50.7	29.2	mg/kg	58	MCAWW 353.2	06/19-06/23/09	9170398

Work Order #: LFALH1AC LCS Lot-Sample#: G9F190000-398
Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: G9F160229

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose		WO#:LFX4L1AC-LCS/LFX4L1AD-LCSD			LCS Lot-Sample#: G9G010000-334		
	85	(26 - 144)			MCAWW 353.2	07/01-07/02/09	9182334
	91	(26 - 144)	6.7	(0-45)	MCAWW 353.2	07/01-07/02/09	9182334
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: G9F160229

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCNT</u> <u>RECVRY</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>	
Nitrocellulose									
			WO#:LFX4L1AC-LCS/LFX4L1AD-LCSD					LCS Lot-Sample#: G9G010000-334	
	2.03	1.73	mg/L	85		MCAWW 353.2	07/01-07/02/09	9182334	
	2.03	1.85	mg/L	91	6.7	MCAWW 353.2	07/01-07/02/09	9182334	

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9F160229

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Perchlorate	110	(85 - 115)	EPA-DW1 314.0	06/24/09	9176300

Work Order #: LFLD81AC LCS Lot-Sample#: G9F250000-300
Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9F160229

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCNT</u> <u>RECVRY</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Perchlorate	50.0	54.9	ug/L	110	EPA-DW1 314.0	06/24/09	9176300

Work Order #: LFLD81AC LCS Lot-Sample#: G9F250000-300
Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9F160229

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/16/09

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose							
	66	(34 - 115)			MCAWW 353.2	06/19-06/23/09	9170398
	63	(34 - 115)	3.9	(0-71)	MCAWW 353.2	06/19-06/23/09	9170398
			Dilution Factor: 1				
			WO#: LE1741AC-MS/LE1741AD-MSD MS Lot-Sample #: G9F160229-003				
			% Moisture.....: 20				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9F160229

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/16/09

PARAMETER	AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
% Moisture.....: 20									
Nitrocellulose			WO#: LE1741AC-MS/LE1741AD-MSD			MS Lot-Sample #: G9F160229-003			
	12.8	63.5	55.0	mg/kg	66		MCAWW 353.2	06/19-06/23/09	9170398
	12.8	63.5	52.8	mg/kg	63	3.9	MCAWW 353.2	06/19-06/23/09	9170398
Dilution Factor: 1									

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9F160229

Matrix.....: WATER

Date Sampled...: 06/09/09

Date Received...: 06/11/09

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Perchlorate			WO#: LEQ1T1AD-MS/LEQ1T1AE-MSD MS Lot-Sample #: G9F110326-011				
	101	(80 - 120)			EPA-DW1 314.0	06/24/09	9176300
	104	(80 - 120)	2.4	(0-20)	EPA-DW1 314.0	06/24/09	9176300

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9F160229

Matrix.....: WATER

Date Sampled...: 06/09/09

Date Received...: 06/11/09

<u>PARAMETER</u>	<u>SAMPLE AMOUNT</u>	<u>SPIKE AMT</u>	<u>MEASRD AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Perchlorate			WO#: LEQ1T1AD-MS/LEQ1T1AE-MSD				MS Lot-Sample #: G9F110326-011		
ND	50.0		50.7	ug/L	101		EPA-DW1 314.0	06/24/09	9176300
ND	50.0		51.9	ug/L	104	2.4	EPA-DW1 314.0	06/24/09	9176300

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: G9F160229

Work Order #...: LE174-SMP
LE174-DUP

Matrix.....: SOLID

Date Sampled...: 06/11/09

Date Received...: 06/16/09

% Moisture.....: 20

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>RESULT</u>		<u>RPD</u>	<u>LIMIT</u>		<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Moisture	20.2	20.0	%	0.75	(0-20)	ASTM D 2216-90	SD Lot-Sample #: G9F160229-003 07/01-07/02/09	9182358

Dilution Factor: 1

Lots: G9F160229, G9F170221

Analysis: Ncell-A Date(s): 7-2-09 Analyst: LH

Level 1 Review:	YES	NO	N/A
1. Samples properly preserved/verified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Run setup meets std criteria (Curve,ICV,ICB,CCV,etc)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Calibration criteria met (R=0.995, R ² =0.990)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Second source std in control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Batch QC in control (LCS,MB,MS/MSD,DCS-if necessary)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Calculations checked	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. QAS/QAPP consulted for client specific requirements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Standard tracking #'s recorded on runlog/benchsheet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Manual integration performed, documented & approved	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Copy of run log included with data package	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Copy of conductivity screen logbook (314.0 only)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Level 1 Data Review:	YES	NO	N/A
1. Benchsheet complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. QAS/QAPP consulted for client specific data entry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Copy of prep sheet/checklist submitted	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. NCM(s) submitted	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Completed by and Date: LH 7-2-09

Level 2 Review:	YES	NO	N/A
1. Level 1 checklist complete & verified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Deviations, NCM(s), holding times checked & approved	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Reprep/Reanalysis documented and chemist notified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Client specific criteria met	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Data entry checked and released in LIMS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Indication on benchsheet of review (dated and initialed)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Manual integration reviewed, approved (dated and initialed)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Copy of run log included with data package	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. Copy of conductivity screen logbook (314.0 only)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Completed by and Date: JOR 7-2-09

Comments:

RQC050

TestAmerica Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 7/02/09
Time: 14:25:44

TestAmerica West Sacramen

PRODUCTION FIGURES - WET CHEM

<u>TOTAL</u> <u>NUMBER</u>	<u>SAMPLE</u> <u>NUMBER</u>	<u>QC</u>	<u>RE-RUN</u> <u>MATRIX</u>	<u>RE-RUN</u> <u>OTHER</u>	<u>MISC</u> <u>NUMBER</u>	<u>TOTAL</u> <u>HOURS</u>	<u>EXPANDED</u> <u>DELIVERABLE</u>
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METHOD: WA Nitrocellulose as N by 353.2
 QC BATCH #: 9182334 INITIALS: DATA ENTRY:
 PREP DATE: 7/01/09 12:30 PREP INITIALS
 COMP DATE: 7/02/09 7:00 ANAL DATE
 USER: HERNANDL

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
LE170-1-AA	G-9F160229-001	XX I 20 WA 01	M		GP-FB-1 (WATER)
LE172-1-AA	G-9F160229-002	XX I 20 WA 01	M		GP-FB-2 (SOIL)
LE515-1-AA	G-9F170221-006	XX I 20 WA 01	M		TT-FB-1
LFX4L-1-AA	G-9G010000-334-B	XX I 20 WA 01			INTRA-LAB BLANK
LFX4L-1-AC	G-9G010000-334-C	XX I 20 WA 01			INTRA-LAB CHECK
LFX4L-1-AD	G-9G010000-334-L	XX I 20 WA 01			INTRA-LAB CHECK

Control Limits

(26-144)

(26-144)

PDE115

TestAmerica Laboratories, Inc.
Inorganics Batch Review
QC Batch 9182334

Date 7/02/2009
Time 13:25:10

Method Code: WA Nitrocellulose as N by 353.2
Analyst: Lisa L. Hernandez

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
LE170-I-AA	ND	mg/L	0.50	07/01-07/02/09	.00	N		ND	0.50	1.00
LE172-1-AA	ND	mg/L	0.50	07/01-07/02/09	.00	N		ND	0.50	1.00
LE515-1-AA	ND	mg/L	0.50	07/01-07/02/09	.00	N		ND	0.50	1.00
LFX4L-1-AA	ND	mg/L	0.50	07/01-07/02/09	.00			ND	0.50	1.00

Notes:

LCS - LCSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. SPIKE	Recovered DUP	RPD	Prep. - Anal.	Dil.
LFX4L-1-AC		2.028		1.73	1.85	85.30	91.22	6.70	07/01-07/02/09	1.00

Notes:

TEST TOTAL # PRODUCTION TOTALS
 0 0 SAMPLE # QC # MATRIX # OTHER # MISC # HOURS
 0 0 0 0 0 0 .0

NITROCELLULOSE

(SOP # WS-WC-0050, Rev 3.0)

ANALYST LH
 CHECKED BY JGR
 BATCH NO. 9182334

DATE 07/02/09 11:45
 DATE 7-2-09
 INST - FS4

METHOD NO. 353.2 FILE 070209A
 PROJECT NO. G9F160229, G9F170221
 SOLIDS MDL - 0.78 mg/kg RL - 5.0 mg/kg
 AQUEOUS MDL - 0.12 mg/L RL - 0.5 mg/L

Lab ID	Time	Standard Conc. mg/L	Cup #	Sample Aliquot		Extract Volume mL	Dilution	Height	NO ₃ + NO ₂ Raw Result	Nitrocellulose			
				gram	mL					mg/L	ug/g	Recovery	Check
1 Cal 0	10:56	0	0					2	-0.004000	Slope = 1.3782E+05 Intercept = 5.7116E+02 Correlation = 0.999986 %Nitrocellulose Assay = 0.111			
2 Cal 1	10:58	0.05	102					7027	0.047000				
3 Cal 2	11:00	0.2	103					28568	0.203000				
4 Cal 3	11:02	0.4	104					55971	0.402000				
5 Cal 4	11:04	1	105					139164	1.006000				
6 Cal 5	11:06	2	106					275738	1.997000				
7 Blank	11:08		0				1	-2	-0.004000				
8 ICV/LCS 1PPM	11:10	1.0	107				1	140464	1.015000			101.5%	
9 MRL 0.05PPM	11:12	0.05	102				1	7846	0.053000			105.6%	
10 NO2 1PPM	11:14	1.0	108				1	146176	1.056000			105.6%	
11 NO3 1PPM	11:16	1.0	109				1	134192	0.970000			97.0%	> RE = 8.2%
12 blank	11:18		0				1	-33	-0.004000				< RL
13 Baseline	11:20		0				1	0	-0.004000				
14 MB 9182334	11:22		125	100	40	1	1	1936	0.010000	0.036	<MDL		
15 LCS 9182334	11:24	2.028	126	100	40	1	1	66756	0.480000	1.73		85.3%	
16 DCS 9182334	11:26	2.028	127	100	40	1	1	71163	0.512000	1.85		91.2%	
17 G9F160229-1	11:28		128	100	40	1	1	1396	0.006000	0.022	<MDL		
18 G9F160229-2	11:30		129	100	40	1	1	1775	0.009000	0.031	↓		
19 G9F170221-6	11:32		130	100	40	1	1	2130	0.011000	0.041			
20 MRL 0.05PPM	11:34	0.05	102				1	7052	0.047000			94.0%	
21 CCV Cal 4	11:36	1.000	105				1	139305	1.007000			100.7%	
22 Blank	11:38		0				1	-41	-0.004000				< RL
23 Baseline	11:40		0				1	0	-0.004000				

Nitrocellulose = (NO₃ + NO₂) * Prep Factor / 0.111

Peak Table:Nitrate/Nitrite

File name: V:\GENCH~%3\ALPKE~_- \2009\NITRO-K%\070209A.RST
 Date: 02-Jul-09
 Operator: 1

Ncell-A
 7-2-09 UH
 Inst: FS4

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppm)	Flags
1	105	Sync	1	SYNC		1	137890	0.996359	
2	0	Carryover	1	CO		1	70	-0.003642	LO
B	0	Baseline	1	RB		1	0	-0.004147	BL
4	0	Cal 0	1	C		1	2	-0.004131	LO
5	102	Cal 1	1	C		1	7027	0.046843	
6	103	Cal 2	1	C		1	28568	0.203141	
7	104	Cal 3	1	C		1	55971	0.401972	
8	105	Cal 4	1	C		1	139164	1.005609	
9	106	Cal 5	1	C		1	275738	1.996566	
10	0	Blank	1	BLNK		1	-2	-0.004164	LO
11	107	ICV/LCS 1PPM	1	U		1	140464	1.015038	
12	102	MRL 0.05PPM	1	U		1	7846	0.052781	
13	108	NO2 1PPM	1	U		1	146176	1.056483	
14	109	NO3 1PPM	1	U		1	134192	0.969530	
15	0	blank	1	BLNK		1	-33	-0.004383	LO
B	0	Baseline	1	RB		1	0	-0.004147	BL
17	125	MB 9182334	1	U		1	1936	0.009900	
18	126	LCS 9182334	1	U		1	66756	0.480221	
19	127	DCS 9182334	1	U		1	71163	0.512200	
20	128	G9F160229-1	1	U		1	1396	0.005982	
21	129	G9F160229-2	1	U		1	1775	0.008733	
22	130	G9F170221-6	1	U		1	2130	0.011310	
23	102	MRL 0.05PPM	1	U		1	7052	0.047022	
24	105	CCV Cal 4	1	CCV		1	139305	1.006630	
25	0	Blank	1	BLNK		1	-41	-0.004445	LO
B	0	Baseline	1	RB		1	0	-0.004147	BL

Cup Name	S	l:Time	l:Value	l:S
0 Carryover	C	10:52:06	0.00	[C]
0 Baseline	C	10:54:06	0.00	[C]
0 Cal 0	C	10:56:05	0.00	[C]
102 Cal 1	C	10:58:05	0.05	[C]
103 Cal 2	C	11:00:05	0.20	[C]
104 Cal 3	C	11:02:05	0.40	[C]
105 Cal 4	C	11:04:05	1.01	[C]
106 Cal 5	C	11:06:05	2.00	[C]
0 Blank	C	11:08:05	0.00	[C]
107 ICV/LCS 1PPM	-	11:10:05	1.02	[-]
102 MRL 0.05PPM	-	11:12:05	0.05	[-]
108 NO2 1PPM	-	11:14:05	1.06	[-]
109 NO3 1PPM	-	11:16:05	0.97	[-]
0 blank	C	11:18:05	0.00	[C]
0 Baseline	C	11:20:05	0.00	[C]
125 MB 9182334	-	11:22:05	0.01	[-]
126 LCS 9182334	-	11:24:05	0.48	[-]
127 DCS 9182334	-	11:26:05	0.51	[-]
128 G9F160229-1	-	11:28:05	0.01	[-]
129 G9F160229-2	-	11:30:05	0.01	[-]
130 G9F170221-6	-	11:32:05	0.01	[-]
102 MRL 0.05PPM	-	11:34:05	0.05	[-]
105 CCV Cal 4	C	11:36:05	1.01	[C]
0 Blank	C	11:38:05	0.00	[C]
0 Baseline	C	11:40:05	0.00	[C]

Ncell-A
7-2-09 44
FS4

Nitrate/Nitrite:Calibration 1: Peak 4-26

File name: V:\GENCH~%3\ALPKE~_-\2009\NITRO~K%\070209A.RST
Date: 02-Jul-09
Operator: 1

Ncell A
7-2-09 UH
FS4

* Name	Conc	Height
* Cal 0	0.000000	2.197937
* Cal 1	0.050000	7027.462402
* Cal 2	0.200000	28568.472656
* Cal 3	0.400000	55971.351562
* Cal 4	1.000000	139164.390625
* Cal 5	2.000000	275737.968750

Calib Coef:

y=bx+a

a: (intercept) 5.7157e+02

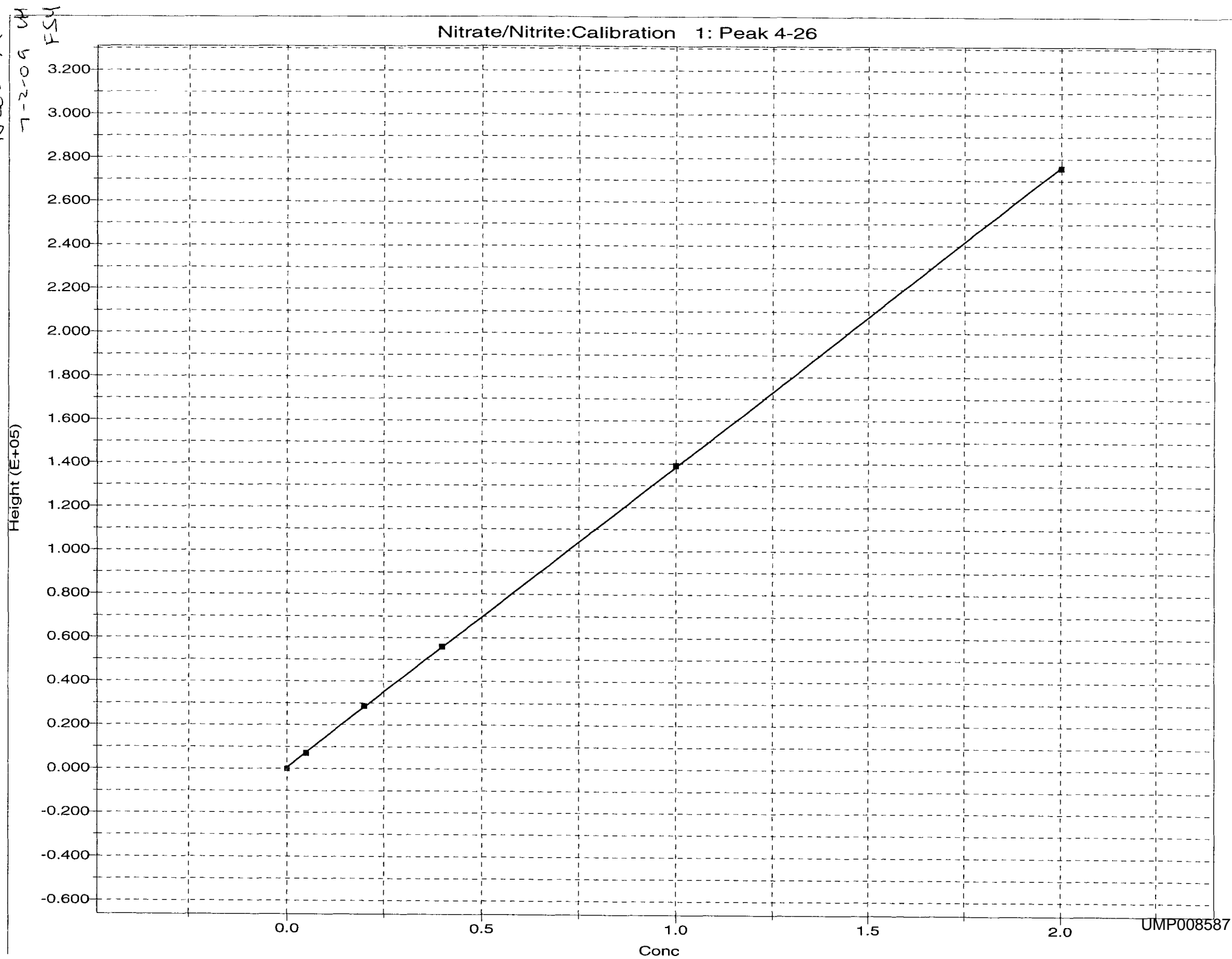
b: 1.3782e+05

Corr Coef: 0.999986

Carryover: 0.0505%

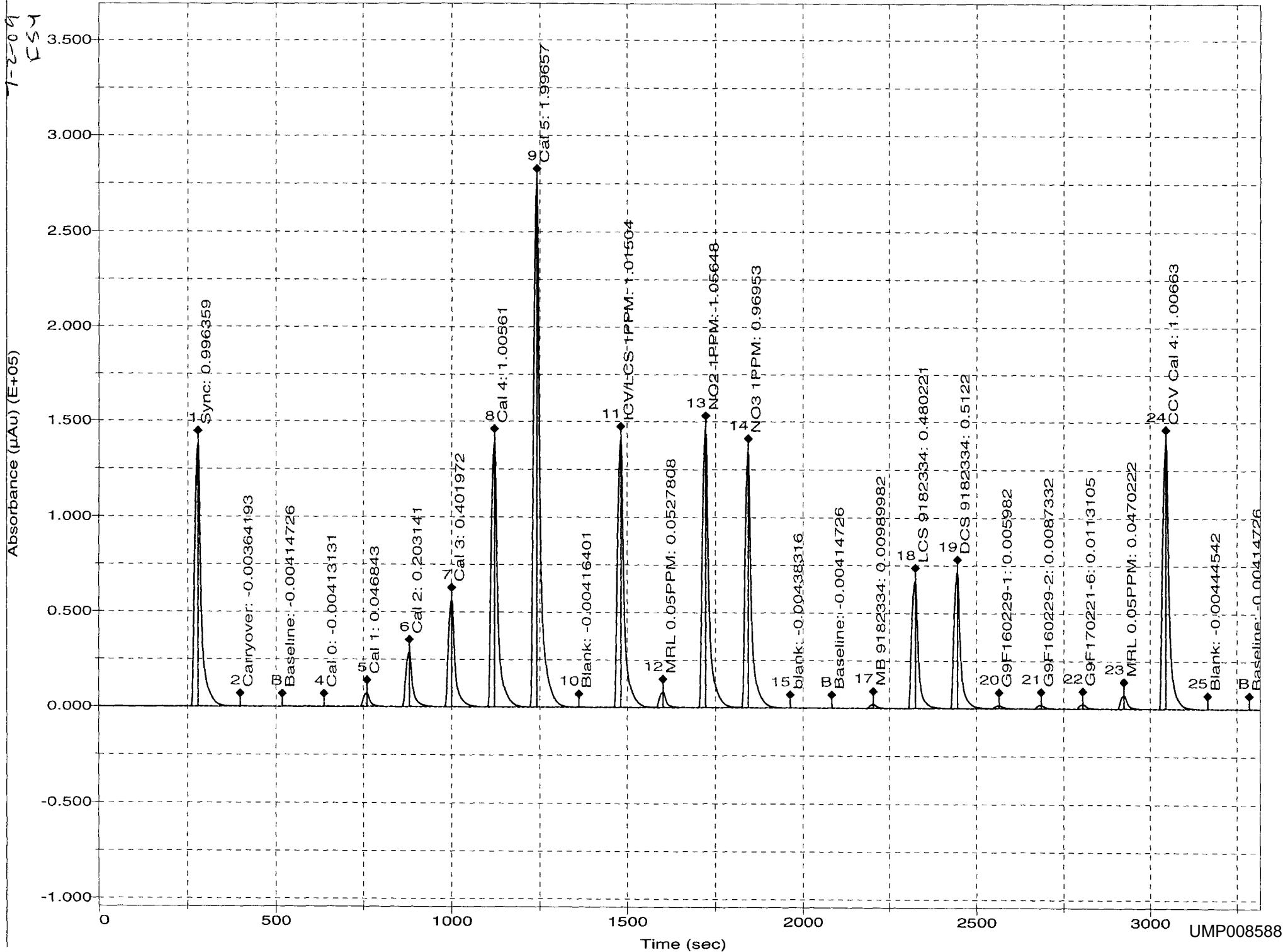
No Drift Peaks

Nitrate/Nitrite:Calibration 1: Peak 4-26



NC211-A
7-2-09
CSM

Channel 1: Nitrate/Nitrite



Analysis date: 7-2-09
41

General Chemistry Standards and Reagent Usage Log

Test: Nitrate+Nitrite Analysis

SOP ID: SAC-WC-0036 (Nitrate+Nitrite)

Method: EPA 353.2

WS-WC-0050 (Nitrocellulose) ✓

Batch ID:

9182334

Instrument ID: FS4 Alpkem ✓

File ID:

070209A (Well)

Standards

<u>Source Standards</u>	<u>Tracking ID</u>	<u>Exp Date</u>
Calibration		
NO3 (1000 mg/L, as N)	3745-WC-2.7	6.9.10
NO2 (1000 mg/L, as N)	3745-WC-2.2	6.4.10
Reference		
NO3 (1000 mg/L, as N)	3338-WC-47.6	9.30.09
NO2 (1000 mg/L, as N)	3615-WC-35.3	7.31.09

Monthly Intermediate Calibration Standard

<u>Conc (mg/L, as N)</u>	<u>Tracking ID</u>	<u>Exp Date</u>
NO3+NO2 100	3745-WC-33	7.11.09

Monthly Working Standards

	<u>Conc (mg/L, as N)</u>	<u>Tracking ID</u>	<u>Exp Date</u>
cal {	S1	0.05	3745-WC-3.4
	S2	0.2	3745-WC-3.5
	S3	0.4	3745-WC-3.6
	S4	1	3745-WC-3.7
	S5	2	3745-WC-3.8
ref {	ICV	1	3745-WC-3.9
	NO2	1	3745-WC-3.10
	NO3	1	3745-WC-4.1

Reagents

<u>Reagent</u>	<u>Tracking ID</u>	<u>Exp Date</u>
Color Reagent	3577-WC-44-3	8.17.09
Buffer	3577-WC-44-4	6.26.10

All tracking numbers and expiration dates were checked as accurate prior to reagent or standard use:

Chemist: LM

Date: 7-2-09

44 7/2/09
 Peak Table: Nitrate/Nitrite

File name: V:\GENCH-%3\ALPKE-_-2009\NITRO-K%\070209A.RST
 Date: 02-Jul-09
 Operator: 1

Ncell-A
 7-2-09 LH
 Inst: FS4

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppm)	Flags
1	105	Sync	1	SYNC		1	137890	0.996359	
2	0	Carryover	1	CO		1	70	-0.003642	LO
B	0	Baseline	1	RB		1	0	-0.004147	BL
4	0	Cal 0	1	C		1	2	-0.004131	LO
5	102	Cal 1	1	C		1	7027	0.046843	
6	103	Cal 2	1	C		1	28568	0.203141	
7	104	Cal 3	1	C		1	55971	0.401972	
8	105	Cal 4	1	C		1	139164	1.005609	
9	106	Cal 5	1	C		1	275738	1.996566	
10	0	Blank	1	BLNK		1	-2	-0.004164	LO
11	107	ICV/LCS 1PPM	1	U		1	140464	1.015038	
12	102	MRL 0.05PPM	1	U		1	7846	0.052781	
13	108	NO2 1PPM	1	U		1	146176	1.056483	
14	109	NO3 1PPM	1	U		1	134192	0.969530	
15	0	blank	1	BLNK		1	-33	-0.004383	LO
B	0	Baseline	1	RB		1	0	-0.004147	BL
17	125	MB 9182334	1	U		1	1936	0.009900	
18	126	LCS 9182334	1	U		1	66756	0.480221	
19	127	DCS 9182334	1	U		1	71163	0.512200	
20	128	G9F160229-1	1	U		1	1396	0.005982	
21	129	G9F160229-2	1	U		1	1775	0.008733	
22	130	G9F170221-6	1	U		1	2130	0.011310	
23	102	MRL 0.05PPM	1	U		1	7052	0.047022	
24	105	CCV Cal 4	1	CCV		1	139305	1.006630	
25	0	Blank	1	BLNK		1	-41	-0.004445	LO
B	0	Baseline	1	RB		1	0	-0.004147	BL

West Sacramento Nitrocellulose Extraction Sheet

Holding Time Due: 7-9-09 / 7-13-09

Project Due: 7-6-09

Analysis Date: 7-2-09

BATCH #: 9182334

Initiated By: MD

Date: HA 7-1-09

MATRIX: SOLID / OTHER: _____

Hydrolyzed By: MD

Date: 7-2-09

QC Code	Lab ID	Sample Size (g or mL)	Final Volume (mL)	pH Adjusted to 6-8	SOP No.: WS-WC-0050				
					EXTRACTION COMMENTS:				
B	MB	100	40	<input checked="" type="radio"/> Y/N	* Hydrolyzed @ 6:30 7-2-09 MD				
C	LCS	100	40	<input checked="" type="radio"/> Y/N					
L	LCSD	100	40	<input checked="" type="radio"/> Y/N					
	69F160229-01	100	40	<input checked="" type="radio"/> Y/N	* DCS approved by pm				
	69F160229-02	100	40	<input checked="" type="radio"/> Y/N					
	69F170221-06	100	40	<input checked="" type="radio"/> Y/N					
				Y/N	<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(45deg); position: relative; margin-bottom: 5px;"> 7-2-09 MA </div>				
				Y/N					
				Y/N					
				Y/N					
				Y/N					
				Y/N					
				Y/N					
				Y/N					
				Y/N					
				Y/N					
				Y/N					
				Y/N					
				Y/N					
				Y/N					
				Y/N					
					QC Codes	Standard Information			
						Volume	STD ID	Conc'n (µg/mL)	Exp Date
					C,L	400µL	E090401A	507	10-2-09
					Spiked By: <u>MD 7-1-09</u> Witnessed By: <u>[Signature] 7/1/09</u>				

QC Codes: B = MB, C = LCS, L = LCSD, S = MS, D = SD.

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 7/02/09
Time: 8:12:13

LEV	LEV	LEV	LEV
1	2	1	2
Y	-	Y	-
Y	-	Y	-
-	-	Y	-
-	-	Y	-
-	-	-	-

Blank Check MS/MSD
Weights/Volumes
Spike & Surrogate Worksheet
Vial contains correct volume
Labels, greenbars, worksheets
computer batch: correct & all match
Anomalies to Extraction Method

- Expanded Deliverable
- COC Completed
- Y Bench Sheet Copied
- Package Submitted to AnalyticalGroup
- Bench Sheet Copied per COC

Extractionist: 000915 Horacio J. Arauz

Concentrationist: 000915 Horacio J. Arauz

Reviewer/Date: ARAUZH / 7/02/09

*
* QC BATCH: 9182334 *
*

PREP DATE: 7/01/09 12:30
COMP DATE: 7/02/09 7:00

Nitrocellulose as N by 353.2
EXTRACTION, SOLID PHASE

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
7/06/09 COMMENTS:	7/06/09	G9F160229-001 LE170-1-AA		20	WA	WATER	100mL 40.00mL	NA	NA	NA		.0	.0	NA
7/06/09 COMMENTS:	7/06/09	G9F160229-002 LE172-1-AA		20	WA	WATER	100mL 40.00mL	NA	NA	NA		.0	.0	NA
7/11/09 COMMENTS:	7/06/09	G9F170221-006 LE515-1-AA		20	WA	WATER	100mL 40.00mL	NA	NA	NA		.0	.0	NA
7/06/09 COMMENTS:	0/00/00	G9G010000-334 LFX4L-1-AAB		20	WA	WATER	100mL 40.00mL	NA	NA	NA		.0	.0	NA
7/06/09 COMMENTS:	0/00/00	G9G010000-334 LFX4L-1-ACC		20	WA	WATER	100mL 40.00mL	NA	NA	NA		.0	.0	400UL-E090401A NA
7/06/09 COMMENTS:	0/00/00	G9G010000-334 LFX4L-1-ADL	R	20	WA	WATER	100mL 40.00mL	NA	NA	NA		.0	.0	400UL-E090401A NA

ACETONE J.T.BAKER G45E25;SODIUM HYDROXIDE RICCA (1N) 1808597
SULFURIC ACID RICCA (2N) 1904287; .45 FILTER MILLIPORE R9AN55780
NUCLEPORE MEMBRANE WHATMAN 8151091.

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 6

Preparation Data Review Checklist

Prep Batch(es) 9182334

Test: Ncell - L

Prep Date: 7-1-09

Holding Times: 7-9-09 7-13-09 NCM: Y (N)

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. Holding times checked? NCMs filed as appropriate	✓	✓
2. QAS checked for QC instructions (LCS, LCSD, MS, MSD, etc)	✓	✓
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.	✓	NA
4. Worksheets have been checked for required spiking compounds	*NA	✓
5. Spiking volumes are correctly documented	✓	✓
6. Std ID numbers on spike labels match numbers on bench sheet	✓	NA
7. Expiration dates have been checked	✓	✓
8. Calibration expiration dates on pipettors have been checked	✓	NA
9. Spiker and spike witness have signed and dated bench sheet		✓
B. Weights and Volumes		
1. Recorded weights are in anticipated range	NA	✓
2. Balance upload or raw data for weights is included	NA	✓
3. Weights and volumes have been transcribed correctly to LIMS.	NA	✓
4. Weights are not targeted to meet exact weights.	NA	✓
5. Each weight or volume measurement is a unique record (no dittos or line downs)	NA	✓
C. Standards and Reagents		
1. Lot numbers for all reagents, including clean up stages, are recorded.	NA	✓
2. Are dates and analysts for cleanups recorded?	NA	✓
3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	✓
D. Documentation		
1. Are all nonconformances documented appropriately?	NA	✓
2. QuantIMs entry correct, including dates and times.	NA	✓
3. Are all fields completed?	NA	✓

Spike witness: [Signature]

Date: 7/01/09

2nd Level Reviewer: [Signature]

Date: 7/2/09

Comments:

* worksheets don't print for NCELL of 7/01/09

Quality Assurance Summary

Client **Barr Engineering Company**

Project Name: **23/19-B05.07SOC350**

PM: **KMS**

Lot Receipt Date: **6/16/2009**

Ops Due: **7/6/2009**

Log Released

Lot ID **G9F160229**

Quantims Quote: **83148**

QAPJP

Log Released Date: **6/17/2009**

General QC

Regulatory Program: Standard
Batching: MB / LCS
Corrective Action: Standard
QC Type: MS / SD
QC Controls: Standard

Reporting

Reporting Limits: Standard
J Values: None
 Yellow Sheet Dry Weight

Raw Data:
None

Summaries:
None

Logs:
None

Entry:
None

TPH-D Chros:
None
TPH-G Chros:
0

Air Toxics

Air Train:
Air HG Fractions: 0
Air Ambient:
Air Prespike:
Air Int Std: Standard
Air DCS: Standard
Air Reporting:
Air DF Train: Air DF Archive
Air Semi Train: Air Semi Archive
 Air Semi Methods

Organics

ABN Search
 VOA Search
Tic#: 0
 Non Linear Calibration

TPH

TPH-D Carbon Ranges:
 BTEX Confirmation

Inorganics

Inorganic QC : MB/LCS/Client MS/SD
Serial Dilution:
TOC:
TOX:
AOX:
 Post Spike

Dioxin

Dioxin Totals Dioxin TDL
Dioxin Action Limit: Dioxin Sample Volume:
Dioxin Threshold: Dioxin Extract Volume:
Dioxin Reporting: Dioxin Cleanups
 Dioxin Cleanup Acid Base
 Dioxin Cleanup Carbon
 Dioxin Cleanup Acid Digest
 Dioxin Dry Grind

Quality Assurance Summary

Client **Barr Engineering Company**

Project Name: **23/19-B05.07SOC350**

PM: **KMS**

Lot Receipt Date: 6/16/2009

Ops Due: 7/6/2009

Log Released

Lot ID **G9F160229**

Quantims Quote: 83148

QAPJP

Log Released Date: 6/17/2009

Organic Analysis Comments:

Organic Prep Comments:

ATG Analysis Comments:

ATG Prep Comments:

Metals Comments:

GenChem Comments:

Client will not specify MS/MSD but will provide extra sample to allow MS/MSd to be done on their sample if possible.

Air Tox Prep Comments:

Quality Assurance Summary

Client **Barr Engineering Company**

Project Name: **2319B05SOC350**

PM: **KMS**

Lot Receipt Date: **6/17/2009**

Ops Due: **7/6/2009**

Log Released

Lot ID **G9F170221**

Quantims Quote: **83148**

QAPjP

Log Released Date: **6/18/2009**

General QC

Regulatory Program: Standard
Batching: MB / LCS
Corrective Action: Standard
QC Type: MS / SD
QC Controls: Standard

Reporting

Reporting Limits: Standard
J Values: None
 Yellow Sheet Dry Weight

Raw Data:
None

Summaries:
None

Logs:
None

Entry:
None

TPH-D Chros:
None
TPH-G Chros:
0

Air Toxics

Air Train:
Air HG Fractions: 0
Air Ambient:
Air Prespike:
Air Int Std: Standard
Air DCS: Standard
Air Reporting:
Air DF Train: Air DF Archive
Air Semi Train: Air Semi Archive
 Air Semi Methods

Organics

ABN Search
 VOA Search
Tic#: 0
 Non Linear Calibration

TPH

TPH-D Carbon Ranges:
 BTEX Confirmation

Inorganics

Inorganic QC : MB/LCS/Client MS/SD
Serial Dilution:
TOC:
TOX:
AOX:
 Post Spike

Dioxin

Dioxin Totals
Dioxin Action Limit:
Dioxin Threshold:
Dioxin Reporting:

Dioxin TDL
Dioxin Sample Volume:
Dioxin Extract Volume:

Dioxin Cleanups
 Dioxin Cleanup Acid Base
 Dioxin Cleanup Carbon
 Dioxin Cleanup Acid Digest
 Dioxin Dry Grind

Quality Assurance Summary

Client **Barr Engineering Company**

Project Name: **2319B05SOC350**

PM: **KMS**

Lot Receipt Date: 6/17/2009

Ops Due: 7/6/2009

Log Released

Lot ID **G9F170221**

Quantims Quote: 83148

QAPjP

Log Released Date: 6/18/2009

Organic Analysis Comments:

Organic Prep Comments:

ATG Analysis Comments:

ATG Prep Comments:

Metals Comments:

GenChem Comments:

Client will not specify MS/MSD but will provide extra sample to allow MS/MSd to be done on their sample if possible.

Air Tox Prep Comments:

Lots: G9F090245, G9F110326, G9F100247, G9F160229

Analysis: NCell-501.d

Date(s): 6-23-09

Analyst: JOR

Level 1 Review:

	YES	NO	N/A
1. Samples properly preserved/verified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Run setup meets std criteria (Curve,ICV,ICB,CCV,etc)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Calibration criteria met (R=0.995, R ² =0.990)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Second source std in control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Batch QC in control (LCS,MB,MS/MSD,DCS-if necessary)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Calculations checked	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. QAS/QAPP consulted for client specific requirements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Standard tracking #'s recorded on runlog/benchsheet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Manual integration performed, documented & approved	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Copy of run log included with data package	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Copy of conductivity screen logbook (314.0 only)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Level 1 Data Review:

1. Benchsheet complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. QAS/QAPP consulted for client specific data entry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Copy of prep sheet/checklist submitted	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. NCM(s) submitted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Completed by and Date: JOR 6-26-09

Level 2 Review:

1. Level 1 checklist complete & verified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Deviations, NCM(s), <u>holding times checked & approved</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Reprep/Reanalysis documented and chemist notified	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Client specific criteria met	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Data entry checked and released in LIMS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Indication on benchsheet of review (dated and initialed)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Manual integration reviewed, approved (dated and initialed)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Copy of run log included with data package	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Copy of conductivity screen logbook (314.0 only)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Completed by and Date: LM 6-29-09

Comments:

TestAmerica West Sacramen

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE
--------------	---------------	----	---------------	--------------	-------------	-------------	----------------------

METHOD: WA Nitrocellulose as N by 353.2
 QC BATCH #: **9170398**
 PREP DATE: 6/19/09 14:00
 COMP DATE: 6/22/09 12:30
 USER: ROGERSJ

INITIALS: _____
 PREP _____
 ANAL _____

DATA ENTRY: _____
 INITIALS _____
 DATE _____

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
LEK6A-1-AA	G-9F090245-001	XX A 76 WA 01	M	_____	SOC2-TT1-1.5'
LEK6G-1-AA	G-9F090245-002	XX A 76 WA 01	M	_____	SOC2-TT2-0.5'-1.5'
LEK6J-1-AA	G-9F090245-003	XX A 76 WA 01	M	_____	SOC2-TT3-0.5'-1'
LEK6L-1-AA	G-9F090245-004	XX A 76 WA 01	M	_____	SOC2-TT4-0.5'-1'
LEK6N-1-AA	G-9F090245-005	XX A 76 WA 01	M	_____	SOC2-TT5-0.5'-1'
LEM3R-1-AA	G-9F100247-001	XX A 76 WA 01	M	_____	SOC1-GP1,0-4
LEM3W-1-AA	G-9F100247-002	XX A 76 WA 01	M	_____	SOC1-GP2,0-4
LEQ0V-1-AA	G-9F110326-001	XX A 76 WA 01	M	_____	SOC3-TT7-0.5-1'
LEQ04-1-AA	G-9F110326-002	XX A 76 WA 01	M	_____	SOC3-TT8-0.5-1'
LEQ07-1-AA	G-9F110326-003	XX A 76 WA 01	M	_____	SOC3-TT1-1-2'
LEQ1A-1-AA	G-9F110326-004	XX A 76 WA 01	M	_____	SOC3-TT1S-3-4'
LEQ1C-1-AA	G-9F110326-005	XX A 76 WA 01	M	_____	SOC3-TT1S-5'
LEQ1E-1-AA	G-9F110326-006	XX A 76 WA 01	M	_____	SOC3-TT2-5'
LEQ1F-1-AA	G-9F110326-007	XX A 76 WA 01	M	_____	SOC3-TT2-3-4'
LEQ1N-1-AA	G-9F110326-009	XX A 76 WA 01	M	_____	SOC1-GP3,0-4
LEQ1Q-1-AA	G-9F110326-010	XX A 76 WA 01	M	_____	SOC1-DUP-4
LE174-1-AA	G-9F160229-003	XX A 76 WA 01	M	_____	SS5
LE174-1-AD	G-9F160229-003-D	XX A 76 WA 01	M	_____	SS5
LE174-1-AC	G-9F160229-003-S	XX A 76 WA 01	M	_____	SS5

RQC050

TestAmerica Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 6/26/09
Time: 17:00:03

TestAmerica West Sacramen

QC BATCH #:	9170398	INITIALS:	DATA ENTRY:
PREP DATE:	6/19/09 14:00	PREP _____	INITIALS _____
COMP DATE:	6/22/09 12:30	ANAL _____	DATE _____
USER:	ROGERSJ		

<u>Work Order</u>	<u>Lab Number</u>	<u>Structured Analysis</u>	<u>Exp. Del.</u>	<u>Analysis Date</u>	<u>Sample ID:</u>
LFALH-1-AA	G-9F190000-398-B	XX A 76 WA 01	_____	_____	INTRA-LAB BLANK
LFALH-1-AC	G-9F190000-398-C	XX A 76 WA 01	_____	_____	INTRA-LAB CHECK

Control Limits

(34-115)

(34-115)

(34-115)

PDE115

TestAmerica Laboratories, Inc.
 Inorganics Batch Review
 QC Batch 9170398

Date 7/02/2009
 Time 15:10:26

Method Code:WA Nitrocellulose as N by 353.2
 Analyst:Jeffery Rogers

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
LEK6A-1-AA	ND	mg/kg	5.0	06/19-06/23/09	16.58	N	R	ND	6.0	1.00
LEK6G-1-AA	0.85	mg/kg	5	06/19-06/23/09	1.48	N	R	ND	5.1	1.00
LEK6J-1-AA	1.11	mg/kg	5	06/19-06/23/09	12.43	N	R	ND	5.7	1.00
LEK6L-1-AA	ND	mg/kg	5	06/19-06/23/09	11.48	N	R	ND	5.6	1.00
LEK6N-1-AA	ND	mg/kg	5	06/19-06/23/09	12.06	N	R	ND	5.7	1.00
LEM3R-1-AA	ND	mg/kg	5.0	06/19-06/23/09	5.77	N	R	ND	5.3	1.00
LEM3W-1-AA	ND	mg/kg	5	06/19-06/23/09	26.22	N	R	ND	6.8	1.00
LEQ0V-1-AA	ND	mg/kg	5.0	06/19-06/23/09	8.78	N	R	ND	5.5	1.00
LEQ04-1-AA	ND	mg/kg	5	06/19-06/23/09	24.70	N	R	ND	6.6	1.00
LEQ07-1-AA	ND	mg/kg	5	06/19-06/23/09	7.04	N	R	ND	5.4	1.00
LEQ1A-1-AA	ND	mg/kg	5	06/19-06/23/09	5.54	N	R	ND	5.3	1.00
LEQ1C-1-AA	ND	mg/kg	5	06/19-06/23/09	9.63	N	R	ND	5.5	1.00
LEQ1E-1-AA	ND	mg/kg	5	06/19-06/23/09	4.72	N	R	ND	5.2	1.00
LEQ1F-1-AA	ND	mg/kg	5	06/19-06/23/09	5.17	N	R	ND	5.3	1.00
LEQ1N-1-AA	1.24	mg/kg	5	06/19-06/23/09	17.64	N	R	ND	6.1	1.00
LEQ1Q-1-AA	0.84	mg/kg	5	06/19-06/23/09	11.98	N	R	ND	5.7	1.00
LE174-1-AA	10.2	mg/kg	5.0	06/19-06/23/09	20.00	N		12.8	6.3	1.00
LFALH-1-AA	ND	mg/kg	5.0	06/19-06/23/09	.00		R	ND	5.0	1.00

Notes:
 Results and reporting limits have been adjusted for dry weight.

Check Standard

Work Order	Exception Code	True Spike	Measured Spike	Percent Recovered	Prep. - Anal.	Control Limits	Dil.
LFALH-1-AC		50.7	29.2	57.59	06/19-06/23/09	(34-115)	1.00

Notes:

PDE115

TestAmerica Laboratories, Inc.
Inorganics Batch Review
QC Batch 9170398

Date 7/02/2009
Time 15:10:26

Method Code: WA Nitrocellulose as N by 353.2
Analyst: Jeffery Rogers

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	SPIKE	Pct. Recovered	RPD	Prep. - Anal.	Dil.
LEI74-1-AC		10.2	50.7	43.9	42.2	66.46	63.11	3.94	06/19-06/23/09	1.00

Notes:

Results and reporting limits have been adjusted for dry weight.

TEST

TOTAL #	PRODUCTION TOTALS				MISC #	HOURS
	SAMPLE #	QC #	MATRIX #	OTHER #		
0	0	0	0	0	0	.0

NITROCELLULOSE

(SOP # WS-WC-0050, Rev 3.0)

ANALYST JDR
 CHECKED BY LH
 BATCH NO. 9170398

DATE 06/23/09 13:25
 DATE 6-29-09
 INST - FS4

METHOD NO. 353.2 FILE 062309A
 PROJECT NO. various
 SOLIDS MDL - 0.78 mg/kg RL - 5.0 mg/kg
 AQUEOUS MDL - 0.12 mg/L RL - 0.5 mg/L

Lab ID	Time	Standard Conc. mg/L	Cup #	Sample Aliquot		Extract Volume mL	Dilution	Height	NO ₃ + NO ₂ Raw Result	Nitrocellulose			
				gram	mL					mg/L	ug/g	Recovery	Check
1 Cal 0	11:50	0	0					-50	-0.003000	Slope = 1.3490E+05 Intercept = 4.0223E+02 Correlation = 0.999986 %Nitrocellulose Assay = 0.111			
2 Cal 1	11:52	0.05	102					6688	0.047000				
3 Cal 2	11:54	0.2	103					27434	0.200000				
4 Cal 3	11:56	0.4	104					54962	0.404000				
5 Cal 4	11:58	1	105					136048	1.006000				
6 Cal 5	12:00	2	106					269714	1.996000	mg/L	ug/g	Recovery	Check
7 Blank	12:02		0				1	-6	-0.003000				
8 ICV/LCS 1PPM	12:04	1	107				1	137367	1.015000			101.5%	
9 MRL 0.05PPM	12:06	0.05	102				1	7603	0.053000			106.8%	
10 NO2 1PPM	12:08	1	108				1	143784	1.063000			106.3%	> RL = 8.6%
11 NO3 1PPM	12:10	1	109				1	131380	0.971000			97.1%	
12 blank	12:12		0				1	56	-0.003000				ND
13 Baseline	12:14		0				1	0	-0.003000				
14 MB 9170398	12:16		201	10		40	1	2276	0.014000	0.50	< MPL		
15 LCS 9170398	12:18	50.7	202	10		40	1	109720	0.810000	29.20	57.6%		
16 G9F090245-1	12:20		203	10.03		40	1	941	0.004000	0.14	< MPL		
17 G9F090245-2	12:22		204	10		40	1	3582	0.024000	0.85			
18 G9F090245-3	12:24		205	10		40	1	4544	0.031000	1.11			
19 G9F090245-4	12:26		206	10.01		40	1	3116	0.020000	0.72	< MPL		
20 G9F090245-5	12:28		207	10		40	1	623	0.002000	0.06			
21 G9F100247-1	12:30		208	10.01		40	1	635	0.002000	0.06			
22 G9F100247-2	12:32		209	10		40	1	2993	0.019000	0.69			
23 G9F110326-1	12:34		210	10		40	1	2817	0.018000	0.65			
24 MRL 0.05PPM	12:36	0.05	102				1	6644	0.046000			92.5%	
25 CCV Cal 4	12:38	1	105				1	135713	1.003000			100.3%	
26 Blank	12:40		0				1	-38	-0.003000				ND
27 Baseline	12:42		0				1	0	-0.003000				
28 G9F110326-2	12:44		211	10		40	1	2904	0.019000	0.67	< MPL		
29 G9F110326-3	12:46		212	10.04		40	1	1133	0.005000	0.19			
30 G9F110326-4	12:48		213	10		40	1	1439	0.008000	0.28			
31 G9F110326-5	12:50		214	10.02		40	1	-284	-0.005000	-0.18			
32 G9F110326-6	12:52		215	10.04		40	1	62	-0.003000	-0.09			
33 G9F110326-7	12:54		216	10.02		40	1	1180	0.006000	0.21			
34 G9F110326-9	12:56		217	10.03		40	1	5059	0.035000	1.24			
35 G9F110326-10	12:58		218	10.01		40	1	3532	0.023000	0.84			
36 MRL 0.05PPM	13:00	0.05	102				1	6757	0.047000			94.2%	

NITROCELLULOSE

(SOP # WS-WC-0050, Rev 3.0)

ANALYST JDR
 CHECKED BY LM
 BATCH NO. 9170398

DATE 06/23/09 13:25
 DATE 6-29-09
 INST - FS4

METHOD NO. 353.2 FILE 062309A
 PROJECT NO. various
 SOLIDS MDL - 0.78 mg/kg RL - 5.0 mg/kg
 AQUEOUS MDL - 0.12 mg/L RL - 0.5 mg/L

Lab ID	Time	Standard Conc. mg/L	Cup #	Sample Aliquot		Extract Volume mL	Dilution	Height	NO ₃ + NO ₂ Raw Result	Nitrocellulose		
				gram	mL							
37	CCV Cal 4	1	105				1	137362	1.015000			101.5%
38	Blank		0				1	-4	-0.003000			ND
39	Baseline		0				1	0	-0.003000			
40	G9F160229-3		219	10.02		40	1	38755	0.284000	10.20		
41	G9F160229-3S	50.7	220	10		40	1	164761	1.218000	43.90		66.5%
42	G9F160229-3D	50.7	221	10		40	1	158390	1.171000	42.20		63.1%
43	MRL 0.05PPM	0.05	102				1	6901	0.048000			96.3%
44	CCV Cal 4	1	105				1	138080	1.021000			102.1%
45	Blank		0				1	-40	-0.003000			ND
46	Baseline		0				1	0	-0.003000			

General Chemistry Standards and Reagent Usage Log

Test: Nitrate+Nitrite Analysis
Method: EPA 353.2

SOP ID: SAC-WC-0036 (Nitrate+Nitrite)
 WS-WC-0050 (Nitrocellulose) ✓

Batch ID: 9170398
File ID: 062309A

Instrument ID: FS4 Alpkem

Standards

Source Standards	Tracking ID	Exp Date
Calibration		
NO3 (1000 mg/L, as N)	<u>3745-WC-2.7</u>	<u>6.9.10</u>
NO2 (1000 mg/L, as N)	<u>3745-WC-2.2</u>	<u>6.4.10</u>
Reference		
NO3 (1000 mg/L, as N)	<u>3338-WC-47.6</u>	<u>9.30.09</u>
NO2 (1000 mg/L, as N)	<u>3615-WC-35.3</u>	<u>7.31.09</u>

Monthly Intermediate Calibration Standard

Conc (mg/L, as N)	Tracking ID	Exp Date
NO3+NO2 100	<u>3745-WC-3.3</u>	<u>7.11.09</u>

Monthly Working Standards

	Conc (mg/L, as N)	Tracking ID	Exp Date	
cal	S1	0.05	<u>3745-WC-3.4</u>	<u>7.11.09</u>
	S2	0.2	<u>3745-WC-3.5</u>	
	S3	0.4	<u>3745-WC-3.6</u>	
	S4	1	<u>3745-WC-3.7</u>	
	S5	2	<u>3745-WC-3.8</u>	
ref	ICV	1	<u>3745-WC-3.9</u>	
	NO2	1	<u>3745-WC-3.10</u>	
	NO3	1	<u>3745-WC-4.1</u>	

Reagents

Reagent	Tracking ID	Exp Date
Color Reagent	<u>3577-WC-44-3</u>	<u>8-17-09</u>
Buffer	<u>3577-WC-44-2</u>	<u>6-17-10</u>

All tracking numbers and expiration dates were checked as accurate prior to reagent or standard use:

Chemist: JDR

Date: 6.23.09

Peak Table:Nitrate/Nitrite

*Reviewed 6/29/09
UH*

*NCell-Solids
For 6.23.09*

File name: V:\ALPKE~_\2009\NITRO-K%\062309A.RST

Date: 23-Jun-09

Operator: JDR

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppm)	Flags	FSY
1	105	Sync	1	SYNC		1	135668	1.002719		
2	0	Carryover	1	CO		1	33	-0.002737	LO	
B	0	Baseline	1	RB		1	0	-0.002981	BL	
4	0	Cal 0	1	C		1	-50	-0.003350	LO	
5	102	Cal 1	1	C		1	6688	0.046594		
6	103	Cal 2	1	C		1	27434	0.200385		
7	104	Cal 3	1	C		1	54962	0.404448		
8	105	Cal 4	1	C		1	136048	1.005533		
9	106	Cal 5	1	C		1	269714	1.996391		
10	0	Blank	1	BLNK		1	-6	-0.003028	LO	
11	107	ICV/LCS 1PPM	1	U		1	137367	1.015308		
12	102	MRL 0.05PPM	1	U		1	7603	0.053383		
13	108	NO2 1PPM	1	U		1	143784	1.062876		
14	109	NO3 1PPM	1	U		1	131380	0.970928		
15	0	blank	1	BLNK		1	56	-0.002567	LO	
B	0	Baseline	1	RB		1	0	-0.002981	BL	
17	201	MB 9170398	1	U		1	2276	0.013889		
18	202	LCS 9170398	1	U		1	109720	0.810362		
19	203	G9F090245-1	1	U		1	941	0.003994		
20	204	G9F090245-2	1	U		1	3582	0.023572		
21	205	G9F090245-3	1	U		1	4544	0.030706		
22	206	G9F090245-4	1	U		1	3116	0.020118		
23	207	G9F090245-5	1	U		1	623	0.001640		
24	208	G9F100247-1	1	U		1	635	0.001728		
25	209	G9F100247-2	1	U		1	2993	0.019204		
26	210	G9F110326-1	1	U		1	2817	0.017899		
27	102	MRL 0.05PPM	1	U		1	6644	0.046272		
28	105	CCV Cal 4	1	CCV		1	135713	1.003051		
29	0	Blank	1	BLNK		1	-38	-0.003263	LO	
B	0	Baseline	1	RB		1	0	-0.002981	BL	
31	211	G9F110326-2	1	U		1	2904	0.018544		
32	212	G9F110326-3	1	U		1	1133	0.005414		
33	213	G9F110326-4	1	U		1	1439	0.007687		
34	214	G9F110326-5	1	U		1	-284	-0.005088	LO	
35	215	G9F110326-6	1	U		1	62	-0.002524	LO	
36	216	G9F110326-7	1	U		1	1180	0.005765		
37	217	G9F110326-9	1	U		1	5059	0.034519		
38	218	G9F110326-10	1	U		1	3532	0.023201		
39	102	MRL 0.05PPM	1	U		1	6757	0.047110		
40	105	CCV Cal 4	1	CCV		1	137362	1.015272		
41	0	Blank	1	BLNK		1	-4	-0.003014	LO	
B	0	Baseline	1	RB		1	0	-0.002981	BL	
43	219	G9F160229-3	1	U		1	38755	0.284305		
44	220	G9F160229-3S	1	U		1	164761	1.218383		
45	221	G9F160229-3D	1	U		1	158390	1.171150		
46	102	MRL 0.05PPM	1	U		1	6901	0.048177		
47	105	CCV Cal 4	1	CCV		1	138080	1.020593		
48	0	Blank	1	BLNK		1	-40	-0.003277	LO	
B	0	Baseline	1	RB		1	0	-0.002981	BL	

Cup	Name	S	1:Time	1:Value	1:S
0	Carryover	C	11:46:42	0.00	[C]
0	Baseline	C	11:48:43	0.00	[C]
0	Cal 0	C	11:50:43	0.00	[C]
102	Cal 1	C	11:52:43	0.05	[C]
103	Cal 2	C	11:54:43	0.20	[C]
104	Cal 3	C	11:56:43	0.40	[C]
105	Cal 4	C	11:58:43	1.01	[C]
106	Cal 5	C	12:00:44	2.00	[C]
0	Blank	C	12:02:44	0.00	[C]
107	ICV/LCS 1PPM	-	12:04:44	1.02	[-]
102	MRL 0.05PPM	-	12:06:44	0.05	[-]
108	NO2 1PPM	-	12:08:44	1.06	[-]
109	NO3 1PPM	-	12:10:45	0.97	[-]
0	blank	C	12:12:45	0.00	[C]
0	Baseline	C	12:14:45	0.00	[C]
201	MB 9170398	-	12:16:45	0.01	[-]
202	LCS 9170398	-	12:18:45	0.81	[-]
203	G9F090245-1	-	12:20:46	0.00	[-]
204	G9F090245-2	-	12:22:46	0.02	[-]
205	G9F090245-3	-	12:24:46	0.03	[-]
206	G9F090245-4	-	12:26:46	0.02	[-]
207	G9F090245-5	-	12:28:46	0.00	[-]
208	G9F100247-1	-	12:30:35	0.00	[-]
209	G9F100247-2	-	12:32:35	0.02	[-]
210	G9F110326-1	-	12:34:35	0.02	[-]
102	MRL 0.05PPM	-	12:36:35	0.05	[-]
105	CCV Cal 4	C	12:38:35	1.00	[C]
0	Blank	C	12:40:35	0.00	[C]
0	Baseline	C	12:42:36	0.00	[C]
211	G9F110326-2	-	12:44:36	0.02	[-]
212	G9F110326-3	-	12:46:36	0.01	[-]
213	G9F110326-4	-	12:48:36	0.01	[-]
214	G9F110326-5	-	12:50:36	-0.01	[-]
215	G9F110326-6	-	12:52:36	0.00	[-]
216	G9F110326-7	-	12:54:36	0.01	[-]
217	G9F110326-9	-	12:56:37	0.03	[-]
218	G9F110326-10	-	12:58:36	0.02	[-]
102	MRL 0.05PPM	-	13:00:37	0.05	[-]
105	CCV Cal 4	C	13:02:37	1.02	[C]
0	Blank	C	13:04:37	0.00	[C]
0	Baseline	C	13:06:37	0.00	[C]
219	G9F160229-3	-	13:08:37	0.28	[-]
220	G9F160229-3S	-	13:10:37	1.22	[-]
221	G9F160229-3D	-	13:12:37	1.17	[-]
102	MRL 0.05PPM	-	13:14:38	0.05	[-]
105	CCV Cal 4	C	13:16:38	1.02	[C]
0	Blank	C	13:18:38	0.00	[C]
0	Baseline	C	13:20:38	0.00	[C]

Ncell - S
 4/6/29/09
 6-23-09
 JDR
 FS4

Nitrate/Nitrite:Calibration 1: Peak 4-49

File name: V:\ALPKE~_\2009\NITRO~K%\062309A.RST

Date: 23-Jun-09

Operator: JDR

Ncell-5
6-23-09 JDR
FS4

* Name	Conc	Height
* Cal 0	0.000000	-49.698483
* Cal 1	0.050000	6687.615234
* Cal 2	0.200000	27433.951172
* Cal 3	0.400000	54961.960938
* Cal 4	1.000000	136048.031250
* Cal 5	2.000000	269714.250000

Calib Coef:

y=bx+a

a: (intercept) 4.0215e+02

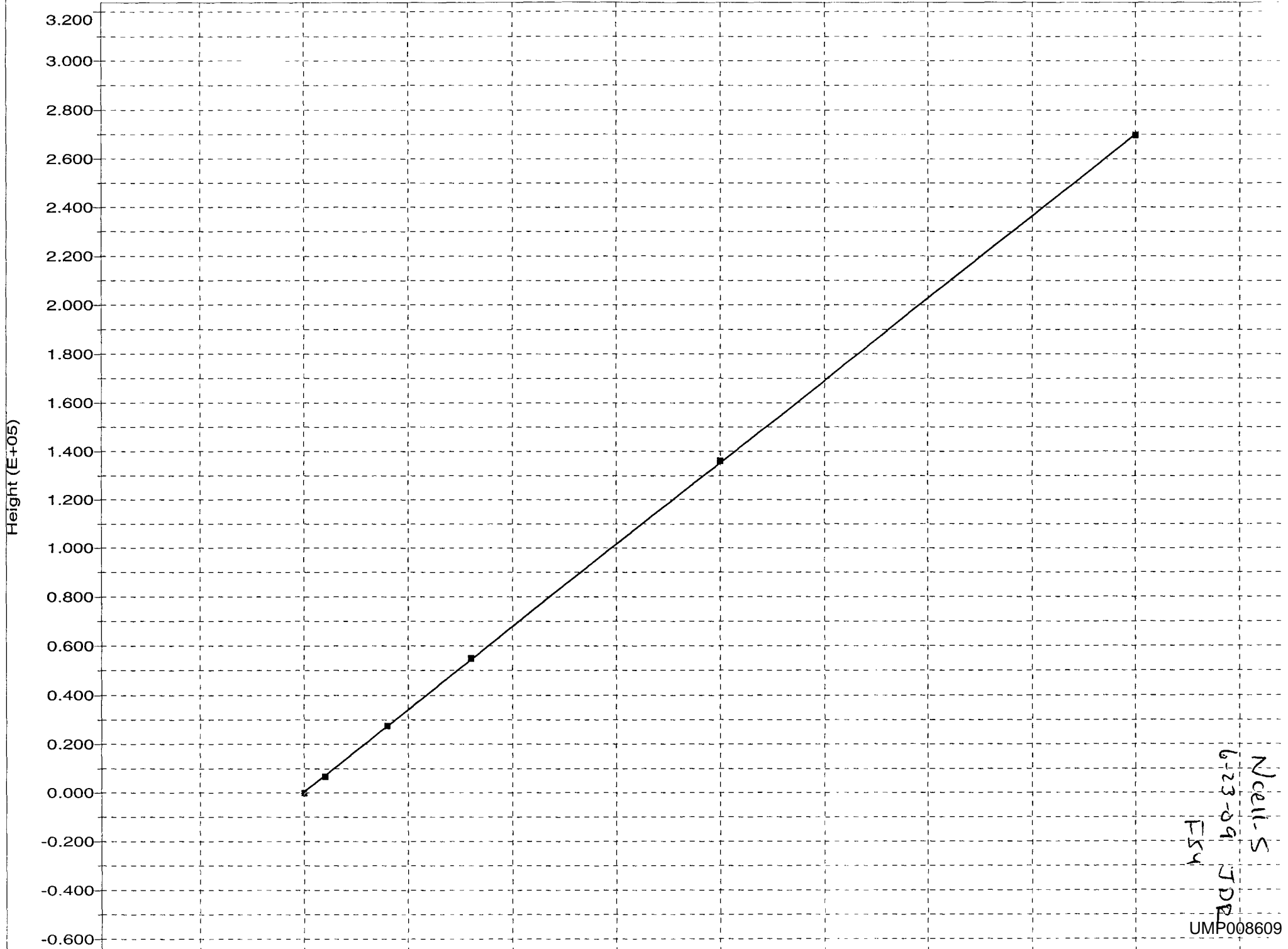
b: 1.3490e+05

Corr Coef: 0.999986

Carryover: 0.0243%

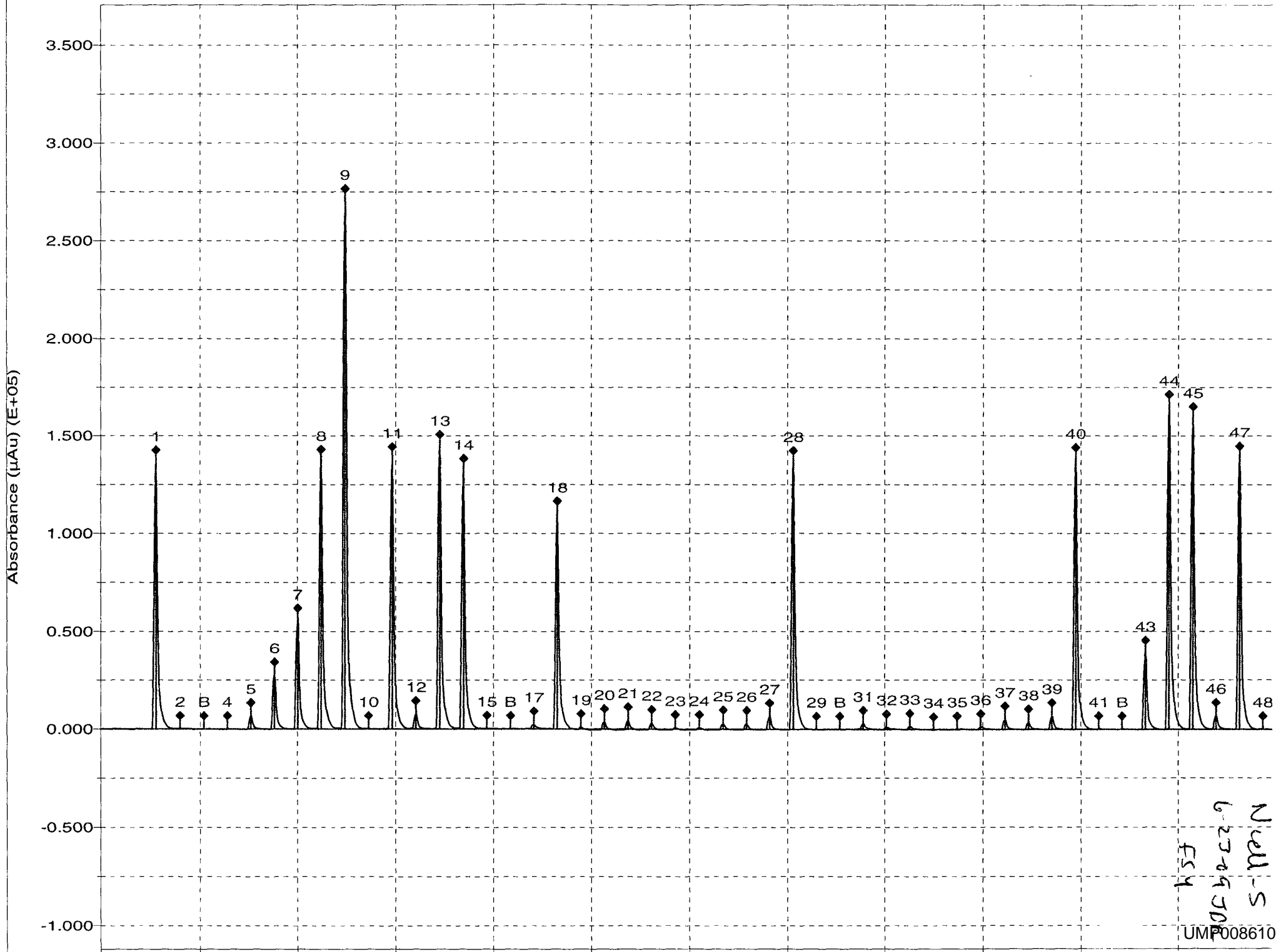
No Drift Peaks

Nitrate/Nitrite:Calibration 1: Peak 4-49



Ncells
6-23-09 JDB
FS4
UMF008609

Channel 1: Nitrate/Nitrite



6-23-09 JDD
FSM
NCELL-S
UMP008610

Peak Table:Nitrate/Nitrite

File name: V:\ALPKE~_\2009\NITRO~K%\062309A.RST
Date: 23-Jun-09
Operator: JDR

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppm)	Flags
1	105	Sync	1	SYNC		1	135668	1.002719	
2	0	Carryover	1	CO		1	33	-0.002737	LO
B	0	Baseline	1	RB		1	0	-0.002981	BL
4	0	Cal 0	1	C		1	-50	-0.003350	LO
5	102	Cal 1	1	C		1	6688	0.046594	
6	103	Cal 2	1	C		1	27434	0.200385	
7	104	Cal 3	1	C		1	54962	0.404448	
8	105	Cal 4	1	C		1	136048	1.005533	
9	106	Cal 5	1	C		1	269714	1.996391	
10	0	Blank	1	BLNK		1	-6	-0.003028	LO
11	107	ICV/LCS 1PPM	1	U		1	137367	1.015308	
12	102	MRL 0.05PPM	1	U		1	7603	0.053383	
13	108	NO2 1PPM	1	U		1	143784	1.062876	
14	109	NO3 1PPM	1	U		1	131380	0.970928	
15	0	blank	1	BLNK		1	56	-0.002567	LO
B	0	Baseline	1	RB		1	0	-0.002981	BL
17	201	MB 9170398	1	U		1	2276	0.013889	
18	202	LCS 9170398	1	U		1	109720	0.810362	
19	203	G9F090245-1	1	U		1	941	0.003994	
20	204	G9F090245-2	1	U		1	3582	0.023572	
21	205	G9F090245-3	1	U		1	4544	0.030706	
22	206	G9F090245-4	1	U		1	3116	0.020118	
23	207	G9F090245-5	1	U		1	623	0.001640	
24	208	G9F100247-1	1	U		1	635	0.001728	
25	209	G9F100247-2	1	U		1	2993	0.019204	
26	210	G9F110326-1	1	U		1	2817	0.017899	
27	102	MRL 0.05PPM	1	U		1	6644	0.046272	
28	105	CCV Cal 4	1	CCV		1	135713	1.003051	
29	0	Blank	1	BLNK		1	-38	-0.003263	LO
B	0	Baseline	1	RB		1	0	-0.002981	BL
31	211	G9F110326-2	1	U		1	2904	0.018544	
32	212	G9F110326-3	1	U		1	1133	0.005414	
33	213	G9F110326-4	1	U		1	1439	0.007687	
34	214	G9F110326-5	1	U		1	-284	-0.005088	LO
35	215	G9F110326-6	1	U		1	62	-0.002524	LO
36	216	G9F110326-7	1	U		1	1180	0.005765	
37	217	G9F110326-9	1	U		1	5059	0.034519	

UH 6/29/09

Reviewed 6/29/09
UH

NCell-50 lids
JDR 6.23.09

FS4

QA-395 04/30/07 KS



THE LEADER IN ENVIRONMENTAL TESTING

West Sacramento
Nitrocellulose Extraction Sheet

Holding Time Due: 7-3-09 / 7-6-09 / 7-8-09

Project Due: 6-24-09 / 6-30-09 / 7-6-09

Analysis Date: 6-23-09

BATCH #: 9170398

Initiated By: MA

Date: 6-19-09

MATRIX: SOLID / AQ / OTHER: _____

Hydrolyzed By: MA

Date: 6-22-09

QC Code	Lab ID	Sample Size (g or mL)	Final Volume (mL)	pH Adjusted to 6-8	SOP No.: WS-WC-0050				
					EXTRACTION COMMENTS:				
B	MB	10.00	40.0	0/N	Hydrolyzed @ 12:30 pm 6/22/09 MA				
C	LCS	10.00	40.0	0/N					
	69F090245-01	10.03	40.0	0/N					
	69F090245-02	10.00	40.0	0/N					
	69F090245-03	10.00	40.0	0/N					
	69F090245-04	10.01	40.0	0/N					
	69F090245-05	10.00	40.0	0/N					
	69F100247-01	10.01	40.0	0/N					
	69F100247-02	10.00	40.0	0/N					
	69F110326-01	10.00	40.0	0/N					
	69F110326-02	10.00	40.0	0/N					
	69F110326-03	10.04	40.0	0/N					
	69F110326-04	10.00	40.0	0/N					
	69F110326-05	10.02	40.0	0/N					
	69F110326-06	10.04	40.0	0/N					
	69F110326-07	10.02	40.0	0/N					
	08 ND	—	40.0	Y/N					
	69F110326-09	10.03	40.0	0/N					
	69F110326-10	10.01	40.0	0/N					
	69F160229-03	10.02	40.0	0/N					
S	69F160229 3MS	10.00	40.0	0/N	Volume	STD ID	Concn (µg/mL)	Exp. Date	
D	69F160229 3MSD	10.00	40.0	0/N	C15-D	1.0 ml	EC90401A	507	10-2-09
				Y/N					
				Y/N					
				Y/N	Spiked By: <u>MD-6-19-09</u> Witnessed By: <u>TP 6/19/09</u>				

QC Codes: B = MB, C = LCS, L = LCSD, S = MS, D = SD.

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 6/22/09
Time: 15:06:58

<u>LEV</u>	<u>LEV</u>		<u>LEV</u>	<u>LEV</u>	
1	2		1	2	
Y	-	Blank	Y	-	Weights/Volumes
Y	-	Check	Y	-	Spike & Surrogate Worksheet
Y	-	MS/MSD	Y	-	Vial contains correct volume
			Y	-	Labels, greenbars, worksheets
				-	computer batch: correct & all match
				-	Anomalies to Extraction Method

- Expanded Deliverable
 - COC Completed
 Y Bench Sheet Copied
 - Package Submitted to AnalyticalGroup
 - Bench Sheet Copied per COC

Extractionist: 000915 Horacio J. Arauz

Concentrationist: 000915 Horacio J. Arauz

Reviewer/Date: ARAUZH / 6/22/09

 *
 * QC BATCH: 9170398 *
 *

PREP DATE: 6/19/09 14:00
 COMP DATE: 6/22/09 12:30

Nitrocellulose as N by 353.2
 EXTRACTION, SOLID/SOLVENT (Manual)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	ADJ1	ADJ2	SOLVENTS EXTRACTION VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
7/01/09 COMMENTS:	6/29/09	G9F090245-001 LEK6A-1-AA		76	WA	SOLID	10.03g 40.00mL	NA	NA	NA	MEOH/H2O	20.0	.0	NA
7/01/09 COMMENTS:	6/29/09	G9F090245-002 LEK6G-1-AA		76	WA	SOLID	10.00g 40.00mL	NA	NA	NA	MEOH/H2O	20.0	.0	NA
7/01/09 COMMENTS:	6/29/09	G9F090245-003 LEK6J-1-AA		76	WA	SOLID	10.00g 40.00mL	NA	NA	NA	MEOH/H2O	20.0	.0	NA
7/01/09 COMMENTS:	6/29/09	G9F090245-004 LEK6L-1-AA		76	WA	SOLID	10.01g 40.00mL	NA	NA	NA	MEOH/H2O	20.0	.0	NA
7/01/09 COMMENTS:	6/29/09	G9F090245-005 LEK6N-1-AA		76	WA	SOLID	10.00g 40.00mL	NA	NA	NA	MEOH/H2O	20.0	.0	NA
7/04/09 COMMENTS:	6/29/09	G9F100247-001 LEM3R-1-AA		76	WA	SOLID	10.01g 40.00mL	NA	NA	NA	MEOH/H2O	20.0	.0	NA
7/04/09 COMMENTS:	6/29/09	G9F100247-002 LEM3W-1-AA		76	WA	SOLID	10.00g 40.00mL	NA	NA	NA	MEOH/H2O	20.0	.0	NA

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 6/22/09
Time: 15:06:58

*
* QC BATCH: 9170398 *
*

PREP DATE: 6/19/09 14:00
COMP DATE: 6/22/09 12:30

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S			SOLVENTS			VOL	SPIKE STANDARD/ SURROGATE ID
								INIT	ADJ1	ADJ2	EXTRACTION	VOL	EXCHANGE		
7/04/09 COMMENTS:	6/30/09	G9F110326-001 LEQ0V-1-AA		76	WA	SOLID	10.00g 40.00mL	NA	NA	NA	MEOH/H2O	20.0	.0	NA	
7/04/09 COMMENTS:	6/30/09	G9F110326-002 LEQ04-1-AA		76	WA	SOLID	10.00g 40.00mL	NA	NA	NA	MEOH/H2O	20.0	.0	NA	
7/05/09 COMMENTS:	6/30/09	G9F110326-003 LEQ07-1-AA		76	WA	SOLID	10.04g 40.00mL	NA	NA	NA	MEOH/H2O	20.0	.0	NA	
7/05/09 COMMENTS:	6/30/09	G9F110326-004 LEQ1A-1-AA		76	WA	SOLID	10.00g 40.00mL	NA	NA	NA	MEOH/H2O	20.0	.0	NA	
7/05/09 COMMENTS:	6/30/09	G9F110326-005 LEQ1C-1-AA		76	WA	SOLID	10.02g 40.00mL	NA	NA	NA	MEOH/H2O	20.0	.0	NA	
7/05/09 COMMENTS:	6/30/09	G9F110326-006 LEQ1E-1-AA		76	WA	SOLID	10.04g 40.00mL	NA	NA	NA	MEOH/H2O	20.0	.0	NA	
7/05/09 COMMENTS:	6/30/09	G9F110326-007 LEQ1F-1-AA		76	WA	SOLID	10.02g 40.00mL	NA	NA	NA	MEOH/H2O	20.0	.0	NA	
7/05/09 COMMENTS:	6/30/09	G9F110326-009 LEQ1N-1-AA		76	WA	SOLID	10.03g 40.00mL	NA	NA	NA	MEOH/H2O	20.0	.0	NA	
7/05/09 COMMENTS:	6/30/09	G9F110326-010 LEQ1Q-1-AA		76	WA	SOLID	10.01g 40.00mL	NA	NA	NA	MEOH/H2O	20.0	.0	NA	
7/07/09 COMMENTS:	7/06/09	G9F160229-003 LE174-1-AA		76	WA	SOLID	10.02g 40.00mL	NA	NA	NA	MEOH/H2O	20.0	.0	NA	

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 6/22/09
Time: 15:06:58

*
* QC BATCH: 9170398 *
*

PREP DATE: 6/19/09 14:00
COMP DATE: 6/22/09 12:30

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT ADJ1 ADJ2	SOLVENTS EXTRACTION VOL EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
7/07/09 COMMENTS:	7/06/09	G9F160229-003 LE174-1-ACS		76	WA	SOLID	10.00g 40.00mL	NA NA NA	MEOH/H2O	20.0	.0 1.0ML-E090401A NA
7/07/09 COMMENTS:	7/06/09	G9F160229-003 LE174-1-ADD		76	WA	SOLID	10.00g 40.00mL	NA NA NA	MEOH/H2O	20.0	.0 1.0ML-E090401A NA
7/01/09 COMMENTS:	0/00/00	G9F190000-398 LFALH-1-AAB		76	WA	SOLID	10.00g 40.00mL	NA NA NA	MEOH/H2O	20.0	.0 NA
7/01/09 COMMENTS:	0/00/00	G9F190000-398 LFALH-1-ACC		76	WA	SOLID	10.00g 40.00mL	NA NA NA	MEOH/H2O	20.0	.0 1.0ML-E090401A NA

MEOH/H2O 2991-93G; ACETONE J.T.BAKER G44E36; SODIUM HYDROXIDE (1N) RICCA
1808597; SULFURIC ACID (2N) RICCA 1904287; .45 FILTER MILLIPORE R9AN55780

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD
‡

NUMBER OF WORK ORDERS IN BATCH: 21

Preparation Data Review Checklist

Prep Batch(es) 9170398

Test: Ncell-S

Prep Date: 6-19-09

Holding Times: 7-3-09
7-6-09
7-8-09

NCM: Y N

A. Spike Witness/Batch setup	Spike Witness	Reviewer
1. Holding times checked? NCMs filed as appropriate	/	/
2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)	/	/
3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.	/	NA
4. Worksheets have been checked for required spiking compounds	/	/
5. Spiking volumes are correctly documented	/	/
6. Std ID numbers on spike labels match numbers on bench sheet	/	NA
7. Expiration dates have been checked	/	/
8. Calibration expiration dates on pipettors have been checked	/	NA
9. Spiker and spike witness have signed and dated bench sheet	/	/
B. Weights and Volumes		
1. Recorded weights are in anticipated range	NA	/
2. Balance upload or raw data for weights is included	NA	/
3. Weights and volumes have been transcribed correctly to LIMS.	NA	/
4. Weights are not targeted to meet exact weights.	NA	/
5. Each weight or volume measurement is a unique record (no dittos or line downs)	NA	/
C. Standards and Reagents		
1. Lot numbers for all reagents, including clean up stages, are recorded.	NA	/
2. Are dates and analysts for cleanups recorded?	NA	/
3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed?	NA	/
D. Documentation		
1. Are all nonconformances documented appropriately?	NA	MS
2. QuantIMs entry correct, including dates and times.	NA	/
3. Are all fields completed?	NA	/

Spike witness: TP

Date: 6/19/09

2nd Level Reviewer: [Signature]

Date: 6/22/09

Comments:

July 11, 2009

TestAmerica Project Number: G9F170221

PO/Contract: 23/19-B05.07SOC350

Kelly Nepl
Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803

Dear Ms. Nepl,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on June 17, 2009 and June 18, 2009. These samples are associated with your UMore Phase II project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4442.

Sincerely,



Karen M. Sellers
Project Manager

Table of Contents

TestAmerica West Sacramento Project Number G9F170221

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

General Chemistry - Various Methods

Samples: 1, 2, 3, 4, 5, 6

 Sample Data Sheet

 Method Blank Report

 Laboratory QC Reports

Case Narrative

TestAmerica West Sacramento Project Number G9F170221

General Comments

Sample TT-FB-1 was not included in the coolers that arrived on June 17, 2009. The sample was received separately on June 18, 2009. The client was notified on June 17, 2009 and authorized the laboratory to proceed with the analysis of this sample.

A chain of custody (COC) was not included in the shipment received on June 17, 2009. The client was notified and e-mailed the COC to the laboratory.

Please note that sample SOC3-TT6-0-1" was labeled as SOC3-TT6-1-2". The sample was logged in based on the COC ID.

WATER, 353.2, Nitrocellulose

Sample: 6

There was insufficient sample volume to prepare a matrix spike/matrix spike duplicate (MS/MSD) pair with this batch.

There are no other anomalies associated with this project.

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	NA

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G9F170221

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
LE4LN	1	SOC3-TT6-0-1'	6/15/09 14:00	6/17/09 08:50
LE4M0	2	SOC3-TT9-7-8'	6/15/09 14:30	6/17/09 08:50
LE4M2	3	SOC3-TT3-0-5'	6/15/09 15:30	6/17/09 08:50
LE4M4	4	SOC3-TT13-1'	6/15/09 16:00	6/17/09 08:50
LE4M6	5	SOC3-DUP4	6/15/09 00:00	6/17/09 08:50
LE515	6	TT-FB-1	6/15/09 17:30	6/18/09 08:50

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Chain of Custody

4700 West 77th Street
 Minneapolis, MN 55435-4803
 (952) 832-2600



Project Number: 23/19-BOS.SOC.350

Project Name: UMore Phase 2 NO 28078

Sample Identification	Collection		Matrix		Type
	Date	Time	Water	Soil	
SOC3-TT6-0-1'	6/15/09	1400	X	X	Grav
SOC3-TT9-7-81		1430	X	X	Grav
SOC3-TT3-0.5'		1530	X	X	Grav
SOC3-TT13-1'		1600	X	X	Grav
SDC3-DUP4	—	—	X	X	Grav
TT-PB-1	↓	1730	X	X	QC

Common Parameter/Container - Preservation Key
 *1 - Volatile Organics = BTEX, GRG, TPH, Full List
 *2 - Semivolatile Organics = PAHs, PCB, Dioxins, Full List,
 Herbicide/Pesticide/PCBs
 *3 - General = pH, Chloride, Fluoride, Alkalinity, TSS,
 ODS, TS, Sulfate
 *4 - Nutrients = COD, TOC, Phenols, Ammonia
 *5 - Nitrogen, TKN

COC 1 of 1
 Project Manager: JSA/JME
 Project Contact: KJN/MSH
 Sampled by: KCB
 Laboratory: Test America

Remarks: Analyze Nitrocellulose
(AMS/MSD vol)

Received by: [Signature] Date: 6/16/09 Time: 1513
 Received by: [Signature] Date: 6-29-09 Time: 1115
 Air Bill Number: _____

CLIENT Barv PM KS LOG# 59092

LOT# (QUANTIMS ID) CAF170221 QUOTE# 83148 LOCATION WILC

DATE RECEIVED 6-17-09 TIME RECEIVED 850 Initials AK Date 6-17-09

DELIVERED BY FEDEX CA OVERNIGHT CLIENT
 AIRBORNE GOLDENSTATE DHL
 UPS BAX GLOBAL GO-GETTERS
 TAL COURIER VALLEY LOGISTICS MORGAN HILL COURIER
 OTHER

CUSTODY SEAL STATUS INTACT BROKEN N/A

CUSTODY SEAL #(S) _____

SHIPPING CONTAINER(S) TAL CLIENT N/A

TEMPERATURE RECORD (IN °C) IR 4 5 OTHER _____

COC #(S) 28678

TEMPERATURE BLANK Observed: 0 Corrected: 2

SAMPLE TEMPERATURE Observed: 2 3 4 Average: 3 Corrected Average: 3

COLLECTOR'S NAME: Verified from COC Not on COC

pH MEASURED YES ANOMALY N/A

LABELED BY _____

LABELS CHECKED BY _____

PEER REVIEW NA

SHORT HOLD TEST NOTIFICATION SAMPLE RECEIVING
WETCHEM N/A
VOA-ENCORES N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES N/A

CLOUSEAU TEMPERATURE EXCEEDED (2 °C - 6 °C)** N/A

WET ICE BLUE ICE GEL PACK NO COOLING AGENTS USED PM NOTIFIED

Notes: _____

** Acceptable temperature range for State of Wisconsin samples is $\le 4^{\circ}\text{C}$.

Lot ID: _____

G9F17022-1

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
___AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
___CGJ																				
500CGJ																				
250CGJ																				
125CGJ	2	2	4	2	2															
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
___"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				

h = hydrochloric acid s = sulfuric acid na = sodium hydroxide n = nitric acid zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 4/09 RKE

LEAVE NO SPACES BLANK. USE "NA" IF NOT APPLICABLE.

General Chemistry - Various Methods

Barr Engineering Company

Client Sample ID: SOC3-TT6-0-1'

General Chemistry

Lot-Sample #...: G9F170221-001 Work Order #...: LE4LN Matrix.....: SOLID
Date Sampled...: 06/15/09 Date Received...: 06/17/09
% Moisture.....: 21

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	6.3	mg/kg	MCAWW 353.2	06/22-06/24/09	9173297
		Dilution Factor: 1				
Percent Moisture	20.9	0.10	%	ASTM D 2216-90	06/30-07/01/09	9181193
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC3-TT9-7-8'

General Chemistry

Lot-Sample #...: G9F170221-002 Work Order #...: LE4M0 Matrix.....: SOLID
Date Sampled...: 06/15/09 Date Received...: 06/17/09
% Moisture.....: 2.1

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	5.1	mg/kg	MCAWW 353.2	06/22-06/24/09	9173297
			Dilution Factor: 1			
Percent Moisture	2.1	0.10	%	ASTM D 2216-90	06/30-07/01/09	9181193
			Dilution Factor: 1			

NOTE(S):

RL Reporting Limit
Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC3-TT3-0.5'

General Chemistry

Lot-Sample #...: G9F170221-003 Work Order #...: LE4M2 Matrix.....: SOLID
Date Sampled...: 06/15/09 Date Received...: 06/17/09
% Moisture.....: 4.5

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	5.2	mg/kg	MCAWW 353.2	06/22-06/24/09	9173297
			Dilution Factor: 1			
Percent Moisture	4.5	0.10	%	ASTM D 2216-90	06/30-07/01/09	9181193
			Dilution Factor: 1			

NOTE(S):

RL Reporting Limit
Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC3-TT13-1'

General Chemistry

Lot-Sample #...: G9F170221-004 Work Order #...: LE4M4 Matrix.....: SOLID
Date Sampled...: 06/15/09 Date Received...: 06/17/09
% Moisture.....: 5.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	5.3	mg/kg	MCAWW 353.2	06/22-06/24/09	9173297
			Dilution Factor: 1			
Percent Moisture	5.2	0.10	%	ASTM D 2216-90	06/30-07/01/09	9181193
			Dilution Factor: 1			

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: SOC3-DUP4

General Chemistry

Lot-Sample #...: G9F170221-005 Work Order #...: LE4M6 Matrix.....: SOLID
Date Sampled...: 06/15/09 Date Received...: 06/17/09
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	6.1	mg/kg	MCAWW 353.2	06/22-06/24/09	9173297
		Dilution Factor: 1				
Percent Moisture	17.6	0.10	%	ASTM D 2216-90	06/30-07/01/09	9181193
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit
Results and reporting limits have been adjusted for dry weight.

Barr Engineering Company

Client Sample ID: TT-FB-1

General Chemistry

Lot-Sample #...: G9F170221-006

Work Order #...: LE515

Matrix.....: WATER

Date Sampled...: 06/15/09

Date Received...: 06/17/09

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	07/01-07/02/09	9182334

Dilution Factor: 1

QC DATA ASSOCIATION SUMMARY

G9F170221

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	SOLID	ASTM D 2216-90		9181193	9181126
	SOLID	MCAWW 353.2		9173297	9173177
002	SOLID	ASTM D 2216-90		9181193	9181126
	SOLID	MCAWW 353.2		9173297	9173177
003	SOLID	ASTM D 2216-90		9181193	9181126
	SOLID	MCAWW 353.2		9173297	9173177
004	SOLID	ASTM D 2216-90		9181193	9181126
	SOLID	MCAWW 353.2		9173297	9173177
005	SOLID	ASTM D 2216-90		9181193	9181126
	SOLID	MCAWW 353.2		9173297	9173177
006	WATER	MCAWW 353.2		9182334	

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9F170221

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Nitrocellulose	ND	Work Order #: LFEER1AA 5.0	mg/kg	MB Lot-Sample #: MCAWW 353.2	G9F220000-297 06/22-06/24/09	9173297
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G9F170221

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Nitrocellulose	ND	Work Order #: LFX4L1AA 0.50	mg/L	MB Lot-Sample #: MCAWW 353.2	G9G010000-334 07/01-07/02/09	9182334
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9F170221

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	59	(34 - 115)	MCAWW 353.2	06/22-06/24/09	9173297

Work Order #: LFEER1AC LCS Lot-Sample#: G9F220000-297
Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9F170221

Matrix.....: SOLID

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCNT</u> <u>RECVRY</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Nitrocellulose	50.7	30.1	mg/kg	59	MCAWW 353.2	06/22-06/24/09	9173297

Work Order #: LFEER1AC LCS Lot-Sample#: G9F220000-297
Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: G9F170221

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose							
		WO#:LFX4L1AC-LCS/LFX4L1AD-LCSD				LCS	Lot-Sample#: G9G010000-334
	85	(26 - 144)			MCAWW 353.2	07/01-07/02/09	9182334
	91	(26 - 144)	6.7	(0-45)	MCAWW 353.2	07/01-07/02/09	9182334
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: G9F170221

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCNT</u> <u>RECVRY</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Nitrocellulose								
	2.03	1.73	mg/L	85		MCAWW 353.2	07/01-07/02/09	9182334
	2.03	1.85	mg/L	91	6.7	MCAWW 353.2	07/01-07/02/09	9182334

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G9F170221

Matrix.....: SOLID

Date Sampled...: 06/15/09

Date Received...: 06/17/09

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose							
	63	(34 - 115)			MCAWW 353.2	06/22-06/24/09	9173297
	69	(34 - 115)	8.4	(0-71)	MCAWW 353.2	06/22-06/24/09	9173297
			Dilution Factor: 1				

% Moisture.....: 4.5

MS Lot-Sample #: G9F170221-003

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G9F170221

Matrix.....: SOLID

Date Sampled...: 06/15/09

Date Received...: 06/17/09

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
% Moisture.....: 4.5									
Nitrocellulose			WO#: LE4M21AC-MS/LE4M21AD-MSD			MS Lot-Sample #: G9F170221-003			
ND	53.1		33.6	mg/kg	63		MCAWW 353.2	06/22-06/24/09	9173297
ND	52.8		36.6	mg/kg	69	8.4	MCAWW 353.2	06/22-06/24/09	9173297
Dilution Factor: 1									

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: G9F170221

Work Order #...: LFP75-SMP
LFP75-DUP

Matrix.....: SOLID

Date Sampled...: 06/24/09

Date Received...: 06/26/09

% Moisture.....: 25

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u>	<u>UNITS</u>	<u>RPD</u>	<u>LIMIT</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>RESULT</u>					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Moisture	25.1	26.2	%	4.1	(0-20)	ASTM D 2216-90	06/30-07/01/09	9181193
Dilution Factor: 1								

SD Lot-Sample #: G9F260311-001