

Tables

TABLE 1
SUMMARY OF EXISTING WELLS
Phase II Investigation Work Plan, SOCs 1-3 and 6-8
UMore Mining Area
Dakota County, Minnesota

MN Unique Well ID Number	PLLS Location				Listed Well Use	Ground Surface Elev (ft MSL)	Well Depth (ft bgs)	Aquifer
	Township (north)	Range (west)	Sec	subSec				
185278	114	19	4	BCDCBC	Irrigation	951	310	PDC
207605	114	19	3	BBAAAD	Domestic	943	206	PDC
207606	114	19	4	BBACBB	Sealed	954	429	
207607	114	19	4	AAACBC	Domestic	945	170	PDC
207608	114	19	4	DACADD	Public	948	415	Jordan
207615	115	19	33	ADBACC	Domestic	955	432	
207616	115	19	33	ABBBBC	Irrigation	954	221	SPPDC
207617	115	19	33	CDBBAA	Domestic	950	434	
208402	115	19	33	DDCC	Domestic	950	166	PDC
208405	115	19	34	CCCCD	Domestic	953	236	PDC
543862	114	19	4		Sealed			
543863	114	19	4		Sealed			
543864	114	19	4		Sealed			
575906	114	19	4	ADA	Monitor			
635497	114	19	4	DAA	Sealed		50	
635498	114	19	4	DAA	Sealed		50	
635499	114	19	4	DAA	Sealed		59	
769429	114	19	4		Monitor	939	77	SP
769482	115	19	33		Monitor	950	147	Q
769483	114	19	4		Monitor	947	127	Q
769488	114	19	4		Monitor	948	70	Q
769489	115	19	33		Monitor	950	146	Q
769490	114	19	3		Monitor	944	72	Q
769493	115	19	33		Monitor	950	77	Q
769796	115	19	33		Monitor	948	84	Q

Notes:

- Blank indicates information not reported
- Domestic - indicates well is used for domestic water supply
- Sealed - indicates well has been sealed/decommissioned
- Irrigation - well used for crop irrigation water supply
- Monitor - well used for monitoring purposes
- Q - Quaternary
- SP - St. Peter Formation
- PDC - Prairie du Chien Group
- Jordan - Jordan Formation

TABLE 2
SITES OF CONCERN
Phase II Investigation Work Plan, SOCs 1-3 and 6-8
UMore Mining Area
Dakota County, Minnesota

Site of Concern	Name	Map Location	Description	Previously Identified Sites	Potentially Affected Media	Anticipated Constituents of Concern
SOC 1	Former Railroad "Y"	A2	Heavy gauge railroad junction that was a major gateway for delivery of construction materials and raw material supplies for manufacture of smokeless gunpowder. Outbound shipments likely included manufactured gunpowder, oleum, and nitric acid. During GOW decommission, salvaged materials would have been shipped out along the rails.	Barr Site ID# 6001. Was visited by Army but not included in scope of Focused Site Investigation. No previous investigations.	Soil and Groundwater	SVOCs from railroad ties including PAHs. Possible spills from railcars including SVOCs (DNT, DBP, DPA), NC, and VOCs. Arsenic-based herbicides may have been used along tracks.
SOC 2	Forestry Research	C3	Wooded area transected by the railroad south of the "Y". GOW era loading platform and storehouses located in cluster with storage buildings south of the GOW lumber yard. The area appears to have disturbed ground on the 1945 air photo and scattered concrete and brick fragments were observed at the surface during 9/2008 field visit. RR tie visible in woods.	Barr Site ID# 6004 and ID# 6005, Dakota County Site ID# 5262 and ID# 5263. Storage buildings 126-T, 127-T1, T2, and S-7-1. No previous investigations.	Soil	ACM, SVOCs, metals
SOC 3	Ag Engineering/Former "K" Street Dump	D3	Former Kane farmstead. West and central side of this area is the Ag Engineering Complex. University staff indicate that the well in building 1010 is believed to be impacted by pesticides and is not potable. East central includes a former animal waste lagoon and associated outlet structures and east side is former dump. Dump is currently wooded with some rubble visible, was borrow area for GOW, appears to have been filled with GOW demolition debris.	Barr Site ID# 6014, Dakota County Site ID# 5225, ID# 5859 and ID# 5012. Possibly associated with LEAK 7504, no known previous investigations.	Soil and Groundwater	ACM, pesticides, herbicides, metals, SVOCs (including DNT, DBP, DPA)
SOC 6	Southern Complex Storage Buildings and Wash Pads	E2	Pesticide release sites closed 2002. University staff suspect some impacts may remain in groundwater.	Barr Site ID# 6006, Dakota County Site ID# 5874	Soil and Groundwater	Pesticides, herbicides
SOC 7	Former Dairy Complex Suspected Dump Area	D1	Suspect dump area. Some evidence of concrete and plastic in surface soils.	Dakota County Site ID# 5152 (in 2006 Peer Phase I)	Soil	ACM, metals, SVOCs
SOC 8	Undetermined Use Area West of Patrol Road (South of CR 46)	D2	Suspect hay bale area. Possible debris/material stockpile area in 1945 aerial photo.	NA	Soil	NA

Abbreviations

ACM - Asbestos-containing material
DNT - 2,4-dinitrotoluene and 2,6-dinitrotoluene, a type of SVOC used as a burn rate modifier for smokeless gunpowder (NC)
DPA - Diphenylamine, an SVOC used as a stabilizer added to smokeless gunpowder
DBP - Di-n-butyl Phthalate, an SVOC used as a plasticizer for smokeless gunpowder
GOW - Gopher Ordinance Works
NC - Nitrocellulose, smokeless gunpowder or gun cotton. A single base explosive and propellant
PAH - Polycyclic Aromatic Hydrocarbons, a type of SVOC
SOC - Site of Concern
SVOCs - Semivolatile Organic Compounds
VOCs - Volatile Organic Compounds
FSI - Draft-Final Focused Site Inspection Report (Bay West, 2008)

**TABLE 3
SOIL AND GROUNDWATER SAMPLING SUMMARY**
UMore Mining Area, Phase II Investigation Work Plan
Dakota County, Minnesota

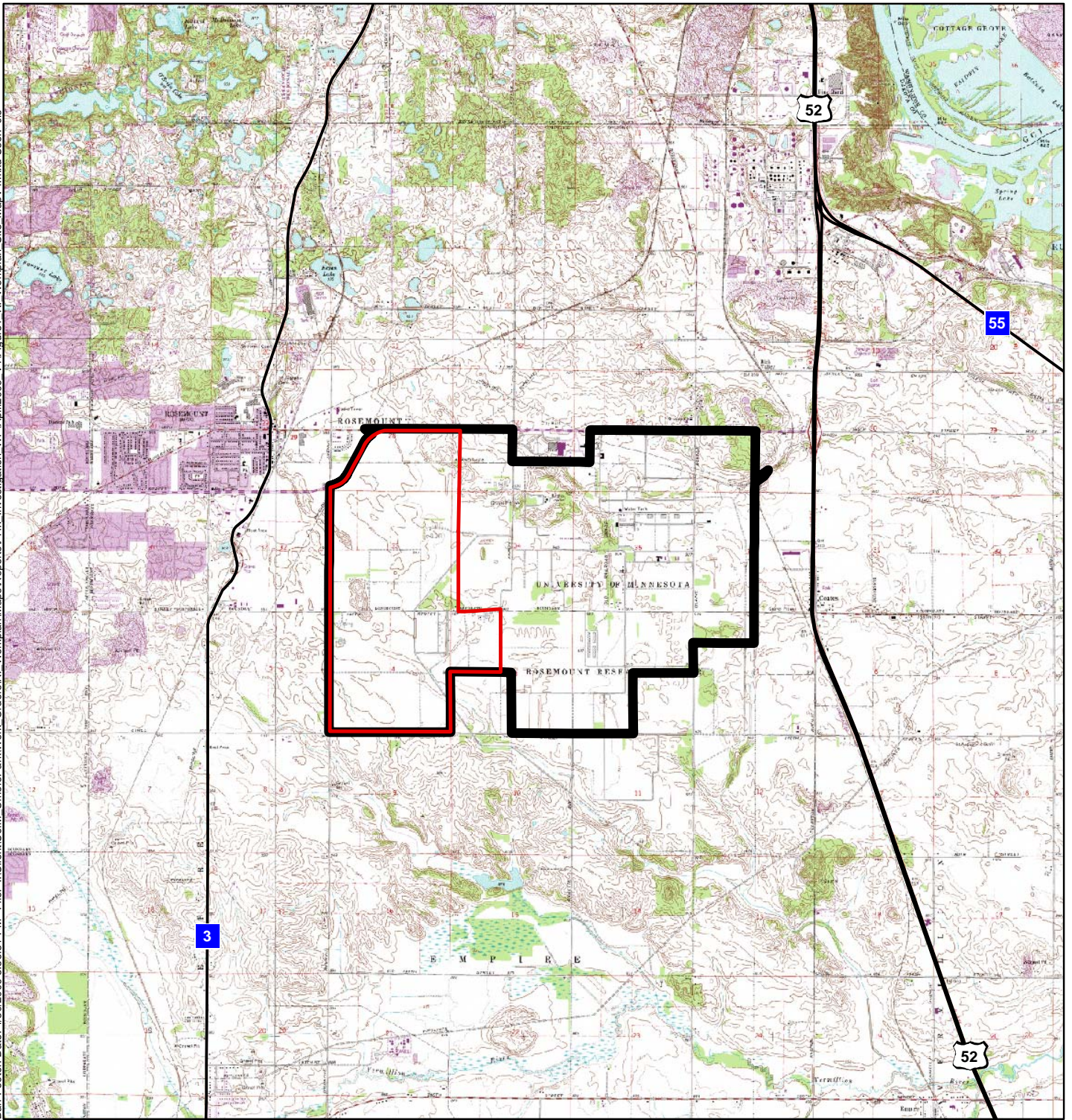
Site of Concern & Rationale	Sampling Location ID	Target Depth ¹ (feet bgs)	Soil Sampling Plan ³								Groundwater Sampling Plan ³								Comment		
			Sample Interval ² (feet bgs)	Parameters (Number of samples)							Depth ⁸ (feet bgs)	Parameters (Number of samples)									
				VOCs ⁴	SVOCs	PPL Metals	<i>Nitrocellulose</i> ⁵	List 1&2 - Pest ⁶	OC-Pest ⁷	Asbestos		<i>Arsenic</i>	VOCs	SVOCs	PPL Metals	<i>Nitrocellulose</i> ⁵	List 1&2 - Pest ⁶	OC-Pest ⁷		Nitrogen ⁹	<i>Perchlorate</i>
Stockpiles (1945)	TT2	4																			
	TT3	4																			
	TT4	4																			
	TT5	4																			
	TT6	4																			
	TT7	4																			
Background Sampling																					
	SS1	0.5	0-0.5	0	1	1		1	1												
	SS2	0.5	0-0.5	0	1	1		1	1												
	SS3	0.5	0-0.5	0	1	1		1	1												
	SS4	0.5	0-0.5	0	1	1		1	1												
	SS5	0.5	0-0.5	0	1	1		1	1												
	MW-B1-001	NA									65	1	1	1		1	1	1	1	1	
	MW-E2-009	NA									60	1	1	1		1	1	1	1	1	
	MW-E2-209	NA									60	1	1	1		1	1	1	1	1	
Estimated Minimum # of Samples:				19	32	24	16	21	18	0	11		9	9	9	2	14	12	14	6	

Notes:
1- Continuous soil sampling conducted in borings to target depth for soil description and screening purposes. Test trenches to extend 2 feet into unimpacted geologic deposit below modern soil or filled material, if possible.
2- **Default soil sample collection depths for chemical analysis. Metals sample default will be from 2 to 6 inches below ground surface. If impacted soils are encountered an additional metals sample will be collected.**
If contamination/debris is encountered, additional samples will be collected (if possible) as indicated in the table below:

Haz. Material Release	Impacted soil,unimpacted soil
Buried Debris	Native soil below debris

3 - Individual compounds and analytical methods for each parameter list are included in the Sampling and Analysis Plan (SAP)
4 - VOC samples will be collected where soil exhibits evidence that VOCs are present. For example, elevated headspace, staining and strong odor.
5 - **Formerly included as "Explosives." SVOC analyte list includes the following compounds considered as "Explosives": 2,4-dinitrotoluene, 2,6-dinitrotoluene and dipheylamine.**
6 - List1&2-Pest - includes Minnesota Department of Agriculture Pesticides List 1 (neutral) and List 2 (acid) pesticides
7 - OC-Pest - includes organochlorine pesticides listed in EPA method # 8081A
8 - Approximate depth to groundwater. Actual depth to be determined in the field.
9 - Nitrogen analysis include Nitrate+Nitrite (As N) and Total Kjeldahl Nitrogen (TKN)
VOCs - Volatile organic compounds
SVOCs - Semi-volatile organic compounds
PPL Metals - Priority Pollutant List metals
WT - Water table
Bold and italics font indicates addition/revision from original WP scope
*** indicates that a sample will be collected if potential Asbestos Containing Material is observed during test trenching**

Figures





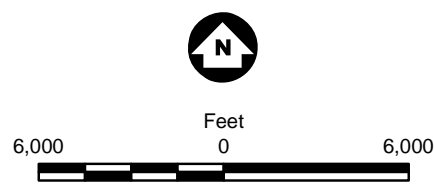
-  UMore Mining Area (UMA)
-  UMore Park Boundary

Figure 1

SITE LOCATION

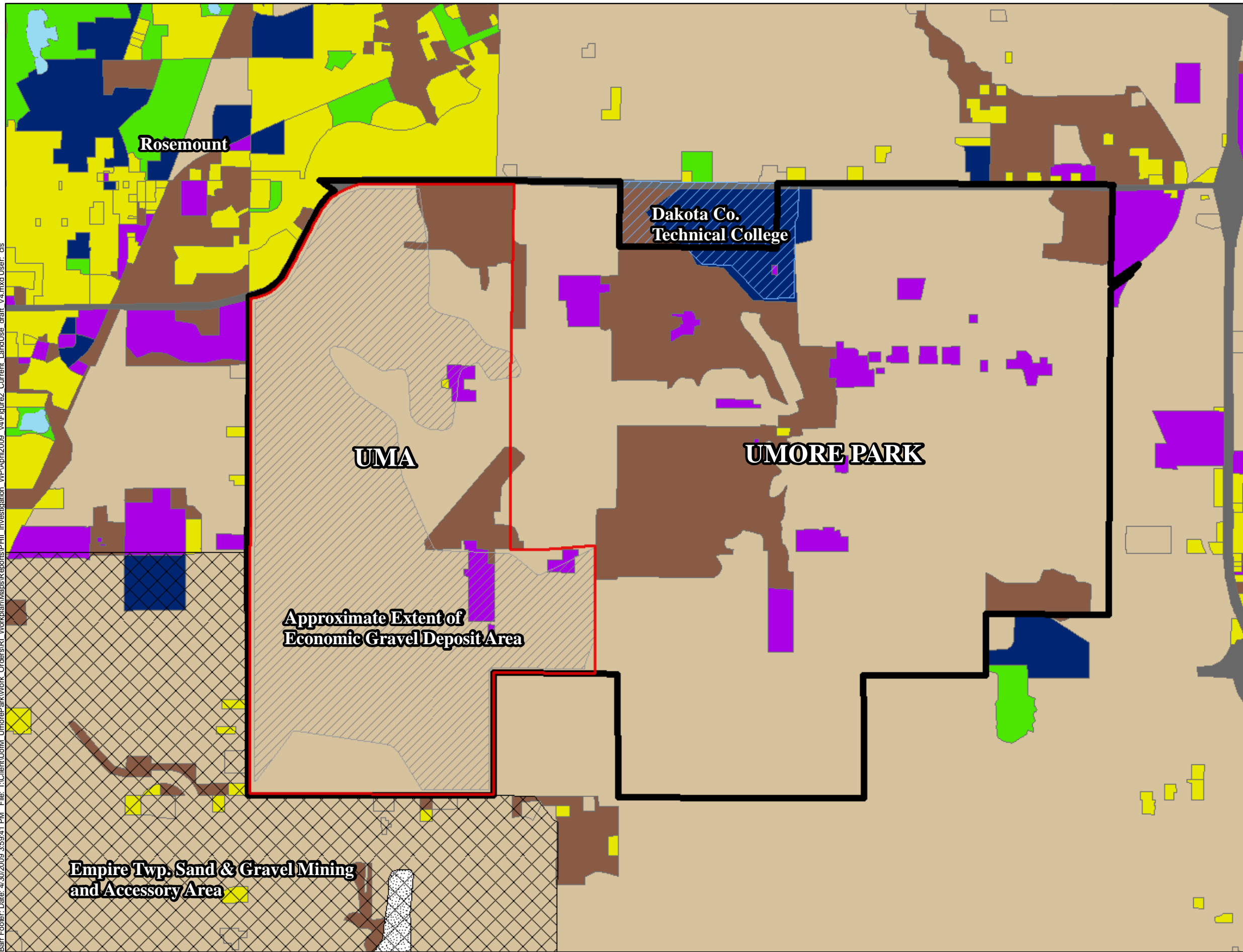
Phase II Investigation Work Plan
Sites of Concern 1-3, 6-8
UMore Mining Area
Dakota County, MN



Source: MnDOT, MN DNR, Dakota County, Barr, SEH, HKGI.
USGS topographic map background downloaded from the U.S.
Department of Agriculture, Natural Resources Conservation Service.



Barr Footer: Date: 4/30/2009 3:59:41 PM File: I:\Client\UoM\UmorePark\Work Orders\RI\Workplan\Maps\Reports\PHI\Investigation_WP_April2009_V4\Figure2_Current_LandUse_draft_V4.mxd>User: ds



- Umore Mining Area (UMA)
 - Umore Park Boundary
 - Gravel Deposit Areas (ProSource, 2008)
 - Dakota Co. Technical College
 - Empire Twp. Sand & Gravel Mining and Accessory Area
- 2005 Generalized Land Use (Met. Council)**
- Agricultural/Farmstead
 - Commercial/Retail/Residential
 - Extractive
 - Parks, Recreational, or Preserve
 - Industrial and Utility
 - Institutional
 - Transportation
 - Undeveloped
 - Water

Source: Metropolitan Council, Dakota County, Barr, SEH, HKGI.



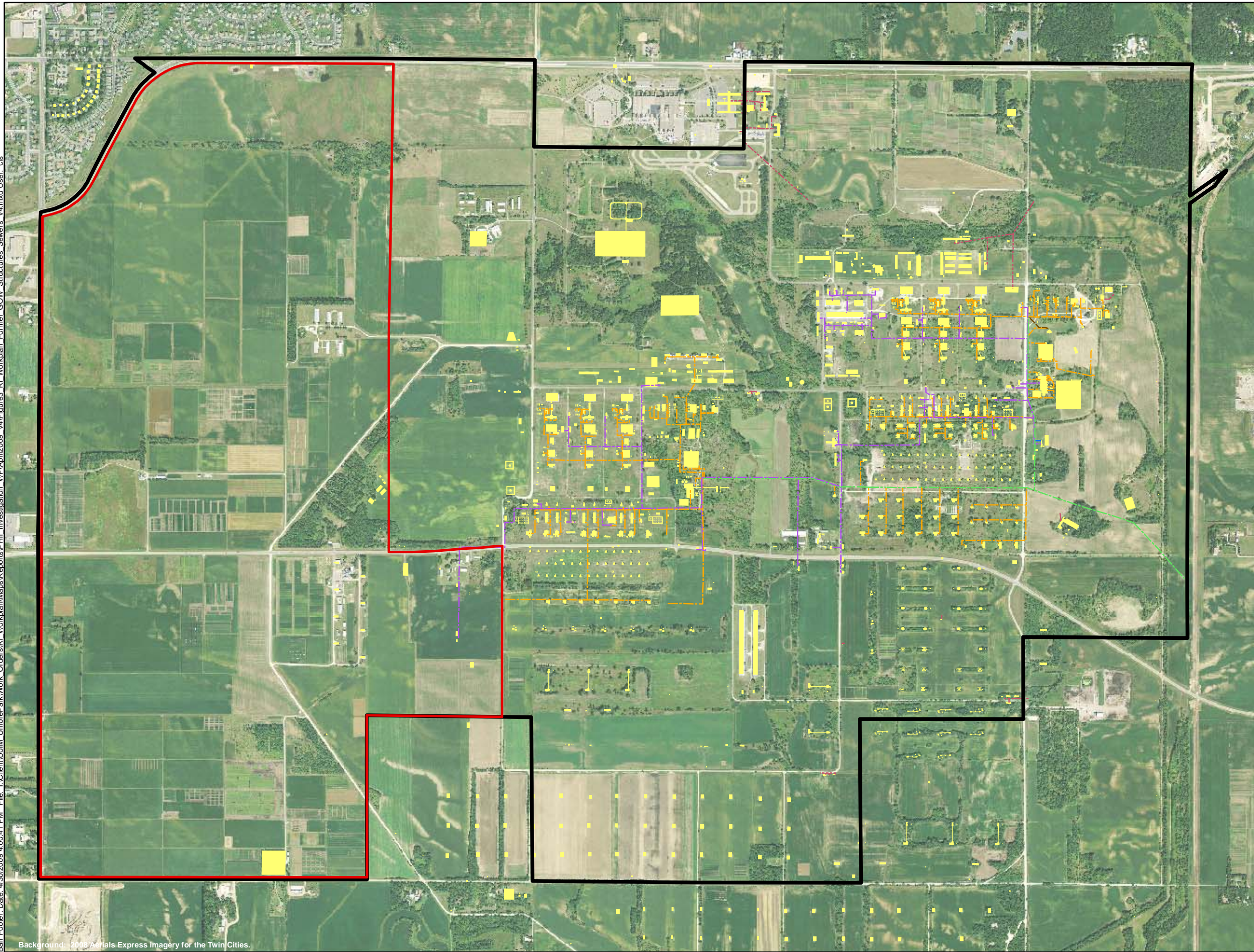
Figure 2

UMA PROJECT AREA AND CURRENT LAND USE

Phase II Investigation Work Plan
Sites of Concern 1-3, 6-8
Umore Mining Area
Dakota County, MN



Barr Footer: Date: 4/30/2009 4:00:41 PM File: I:\Client\UoM_UmorePark\Work Orders\RI_Workplan\Maps\Reports\PHI_Investigation_WP_April2009_V4\Figure3_RI_Workplan_Former_GOW_Structures_Sewers_V4.mxd User: cls



- Waste Lines (from Dakota Co.)
 - Laminex Woodbox Sewer
 - Lime Slurry
 - Process Sewer
 - Sanitary Sewer
 - Septic Line
 - Water Treatment
- ▭ UMore Mining Area (UMA)
- ▭ UMore Park Boundary
- ▭ Former GOW Building (from Dakota Co.)

Source: Dakota County, SEH, Barr, HKGI.



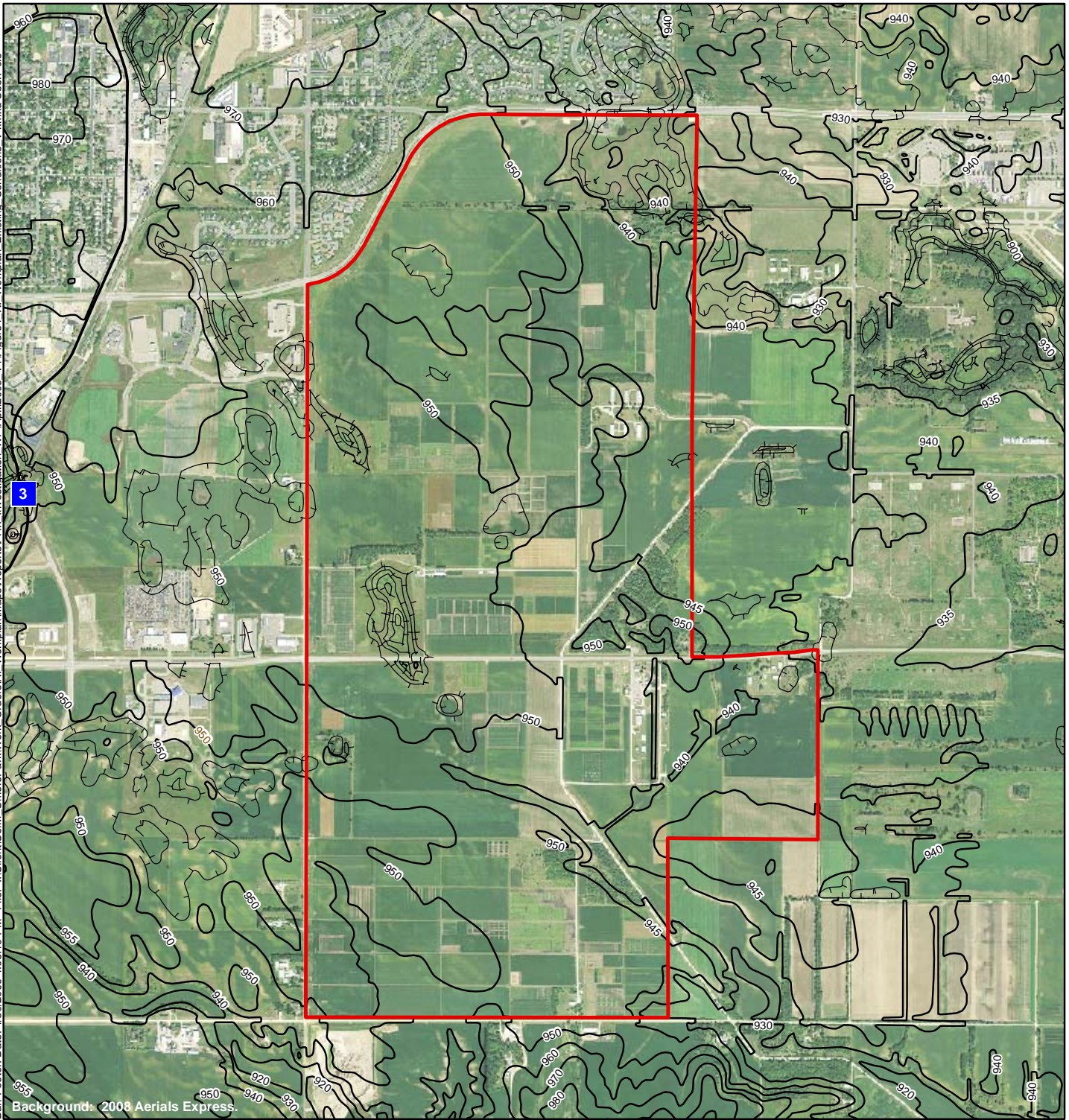
Figure 3

FORMER GOW STRUCTURES AND SEWERS

Phase II Investigation Work Plan
Sites of Concern 1-3, 6-8
UMore Mining Area
Dakota County, MN



Barr Footer Date: 4/30/2009 4:03:19 PM File: I:\Client\UofM_UmorePark\Work_Orders\RI_Workplan\Maps\Reports\PHI_Investigation_WP\April2009_V4\Figure4_RI_Workplan_Existing_Conditions_V4.mxd User: cjs



- Umore Mining Area (UMA)
- Ground Surface Contour
- Depressional Ground Surface Contour

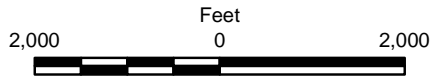


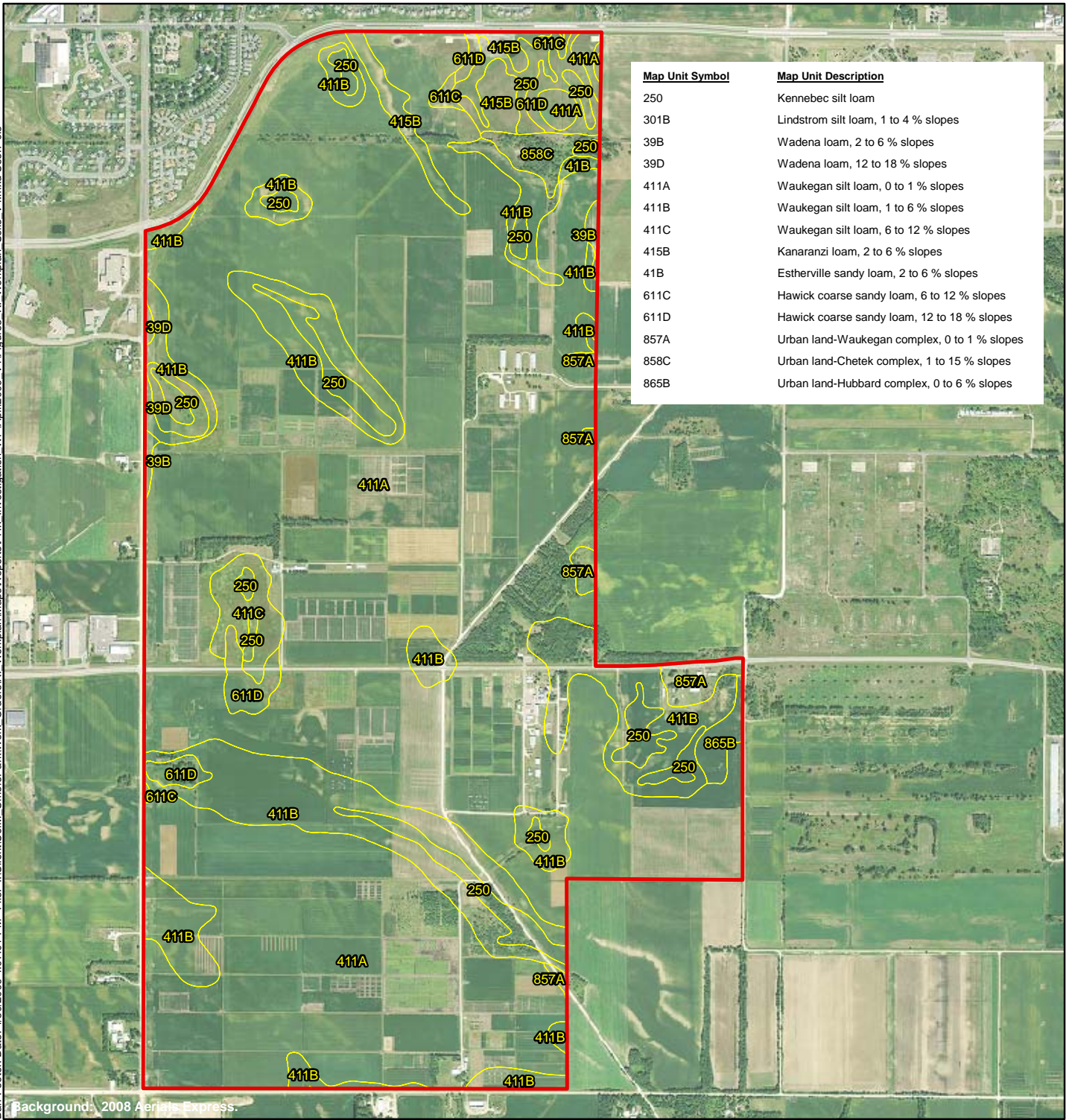
Figure 4

EXISTING CONDITIONS AND TOPOGRAPHY

Phase II Investigation Work Plan
Sites of Concern 1-3, 6-8
Umore Mining Area
Dakota County, MN



Barr Footer: Date: 4/30/2009 4:07:01 PM File: I:\Client\UofM_UmorePark\Work_Orders\RI_Workplan\Maps\Reports\PHI_Investigation_WP\April2009_V4\Figure5_RI_Workplan_Soils_V4.mxd User: cjs



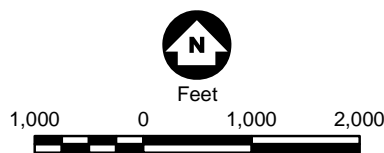
Background: 2008 Aerials Express.

- Umore Mining Area (UMA)
- Soil Data (SSURGO)

Figure 5

UMA SURFACE SOILS

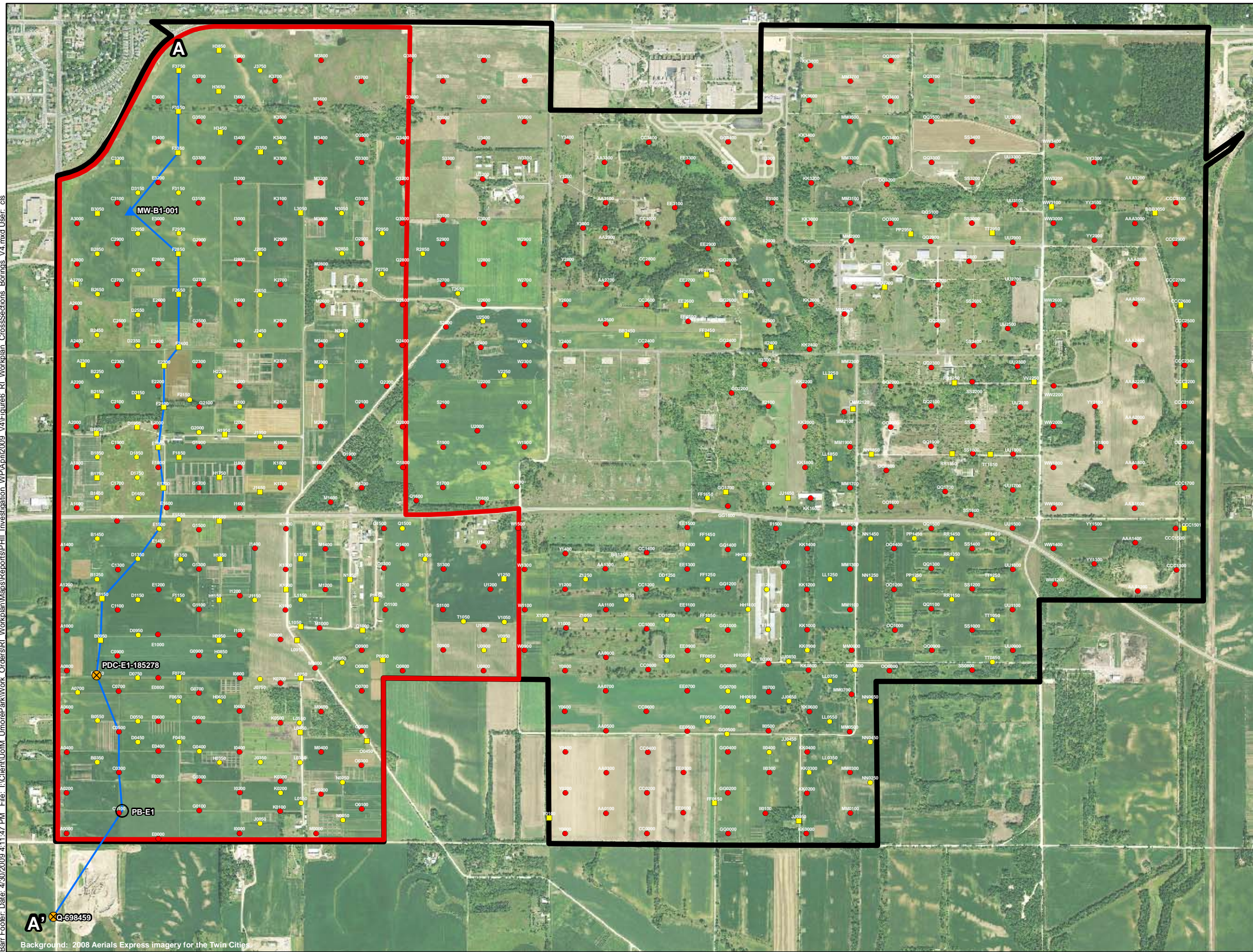
Phase II Investigation Work Plan
 Sites of Concern 1-3, 6-8
 Umore Mining Area
 Dakota County, MN



Source: MnDOT, MN DNR, Dakota County, USGS, Barr, SEH.
 Soil data is Soil Survey Geographic (SSURGO) database for Dakota County from the U.S. Department of Agriculture, Natural Resources Conservation Service.



Bar Footer: Date: 4/30/2009 4:11:47 PM. File: I:\Client\UenM_UmorePark\Work_Orders\RI_Workplan\Maps\Reports\PHI_Investigation_WP\April2009_V4\Figure6_RI_Workplan_CrossSections_Borings_V4.mxd User: dls



- Cross Section
 - ▭ Umore Park Boundary
 - ▭ Umore Mining Area (UMA)
 - ⊗ Existing Well
 - ▲ Monitoring Well
 - Pilot Boring
- Boring Locations
- Phase I, Auger (ProSource, 2008)
 - Phase II, Auger (ProSource, 2008)
 - Phase II, Coring (ProSource, 2008)

Source: ProSource, SEH, Barr, HKGI.

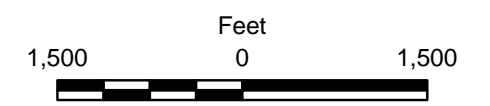
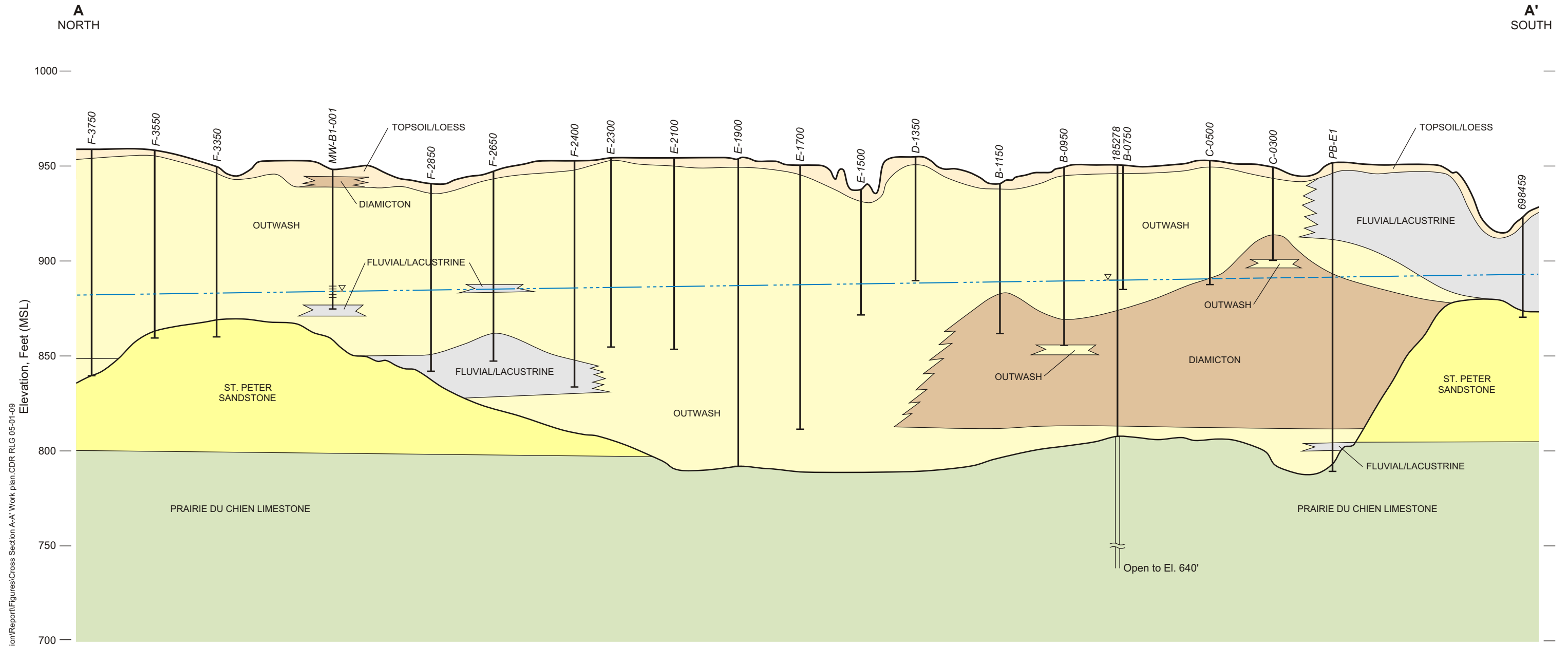


Figure 6
GRAVEL ASSESSMENT BORINGS
AND
CROSS SECTION LOCATION

Phase II Investigation Work Plan
Sites of Concern 1-3, 6-8
Umore Mining Area
Dakota County, MN

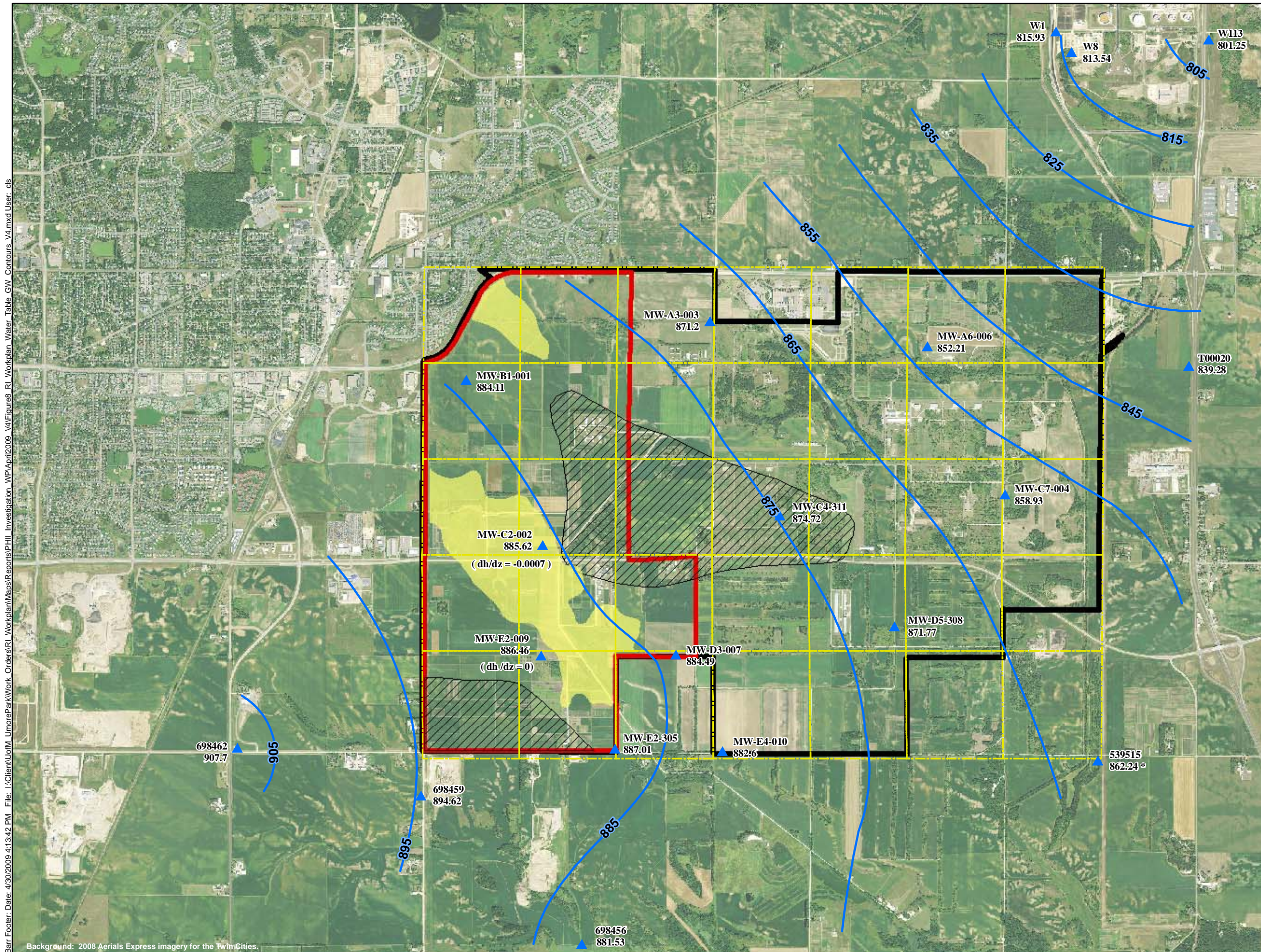




P:\Mpls\23 MN\19\2319B\05\WorkFiles\GW Assessment\Invest\WCH\2 and #3\Implementation\Report\Figures\Cross Section A-A' Work plan.CDR RLG 05-01-09

Legend	Common Name	Generalized Field Descriptions	Predominant USCS Descriptions	Cross Section Location Map
Approximate Water Table Elevation (Dashed where inferred)	Topsoil/Loess	Surface Deposit - Organic Topsoil At Depth - Silt	OL, ML	
Approximate Groundwater Elevation (04-03-09)	Outwash	Poorly Graded Sand with Gravel (content ranging from 0 to 30%)	SP, SW, GP	
Soil Boring	Diamicton	Lean Clay Matrix with Sand and Gravel (content ranging from 10% to 40%)	CL, SC	
Well Screen	Fluvial(low energy)/ Lacustrine	Sandy Silt, Silt or Interbedded Clays	ML, SM, SM/CL	
Open Hole Interval (for pre-existing wells)	St. Peter Sandstone	Fine Grained Sandstone (Bedrock)	NA	
	Prairie du Chien	Dolomite (Bedrock)	NA	

Figure 7
 CROSS SECTION A-A'
 Phase II Investigation Work Plan
 Sites of Concern 1-3, 6-8
 UMore Mining Area
 Dakota County, Minnesota



- Monitoring Wells
 - Groundwater Elevation Contours
 - Umore Park Boundary
 - Umore Mining Area (UMA)
 - Site Location Grid
 - Approximate Extent of Massive Glacial Diamicton at Water Table
 - Economic Gravel Deposit Below the Water Table (Approximate)
- $\frac{dh}{dz}$ = Vertical gradient in Quaternary deposit; negative indicates downward gradient.

Source: Metropolitan Council, MnDOT, Dakota County, Barr, ProSource, SEH, HKGi.

Water levels used for this map are from wells completed in the uppermost saturated unit and within 25 feet of the water table. Most of the wells used are completed in Quaternary deposits or the St Peter formation, except W1, which is completed in the Prairie du Chien formation, and T00020, which is completed across Quaternary deposits and the Prairie du Chien formation.

* The water level at well 539515 was measured on 3-4-2009. All others were measured on 3-3-2009.

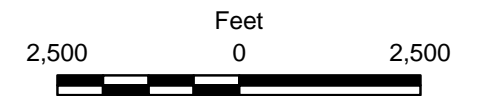


Figure 8

GROUNDWATER FLOW MAP

Phase II Investigation Work Plan
 Sites of Concern 1-3, 6-8
 Umore Mining Area
 Dakota County, MN



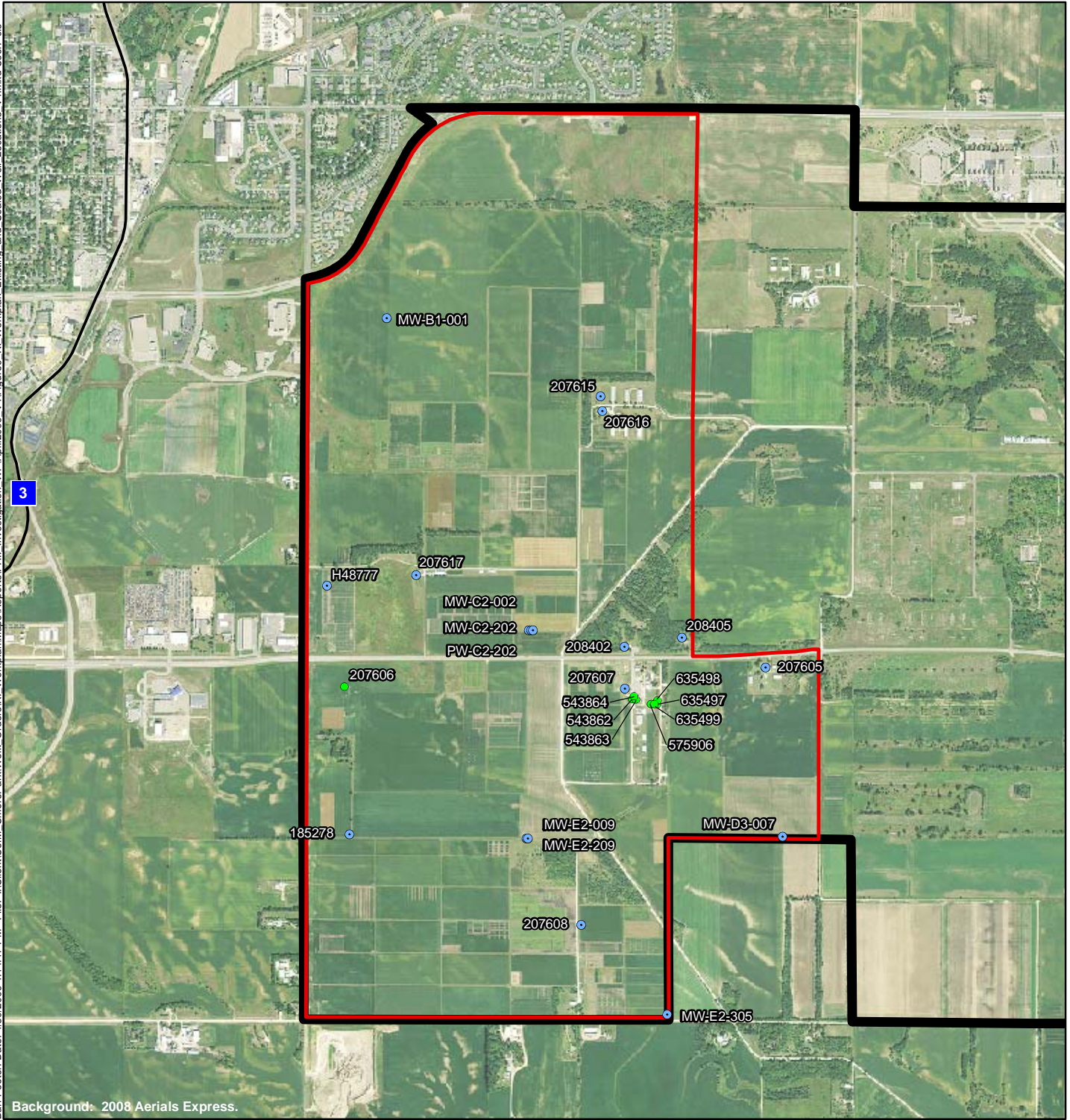
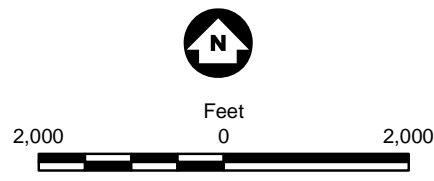


Figure 9

EXISTING AND SEALED WELLS

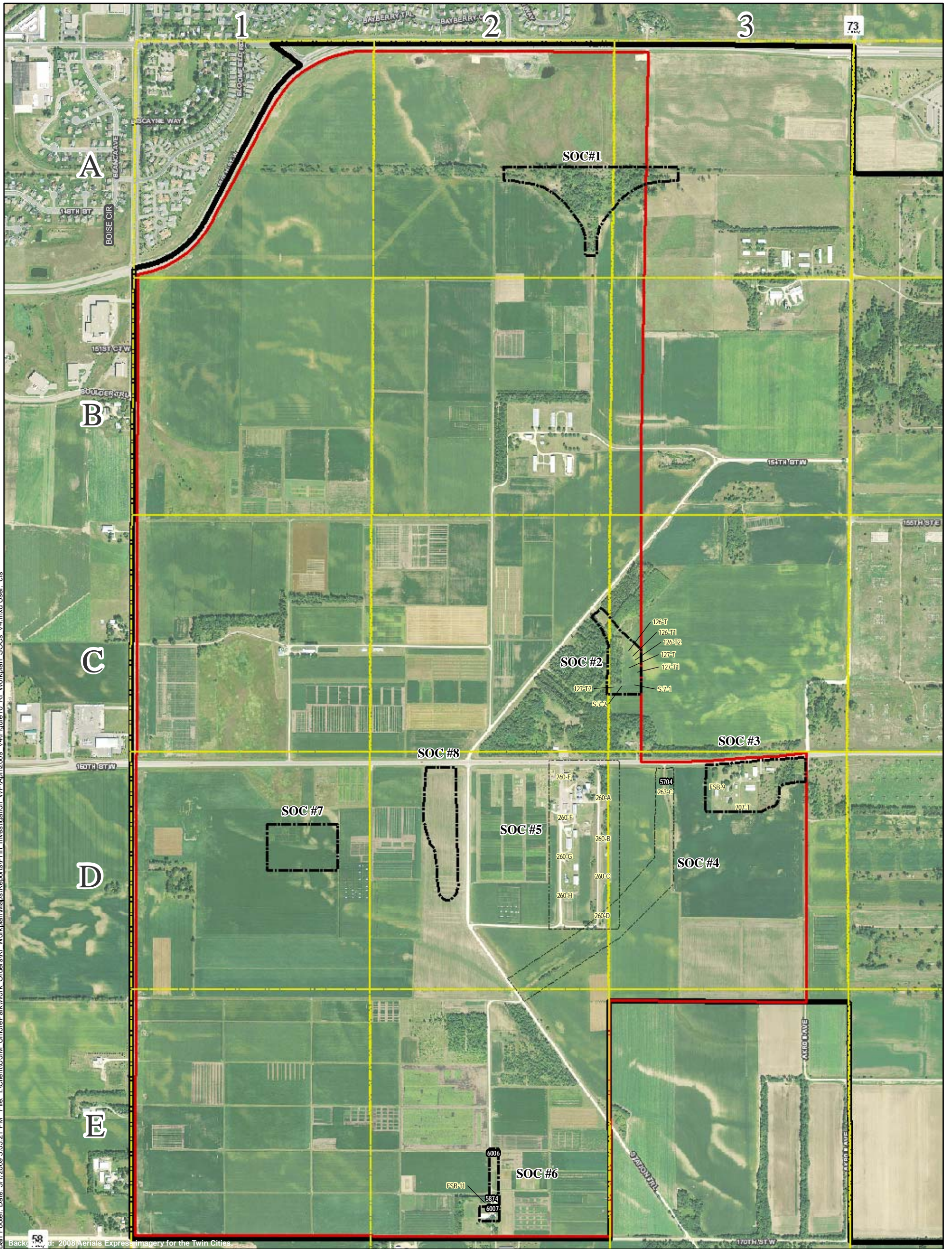
Phase II Investigation Work Plan
 Sites of Concern 1-3, 6-8
 Umore Mining Area
 Dakota County, MN

- Active Well
- Sealed Well
- Umore Mining Area (UMA)
- Umore Park Boundary



Source: Dakota County, SEH, Barr, HKGi.
 Well data is from the Dakota County Well and Water Management System (WELLMAN) and from Barr.



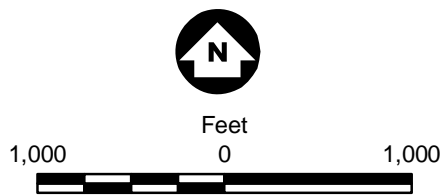


Barr Footer: Date: 5/1/2009 3:05:21 PM. File: I:\Client\UofM_UmorePark\Work Orders\RI_Workplan\Reports\PHI_Investigation_WP\April2009_V4\Figure10_RI_Workplan_SOCs_V4.mxd User: cls

- UMore Mining Area (UMA)
- UMore Park Boundary
- Site of Concern (SOC) Boundary

- 260-H GOW-Era Building Name
- 5152 Previously Mapped and Evaluated Site Number

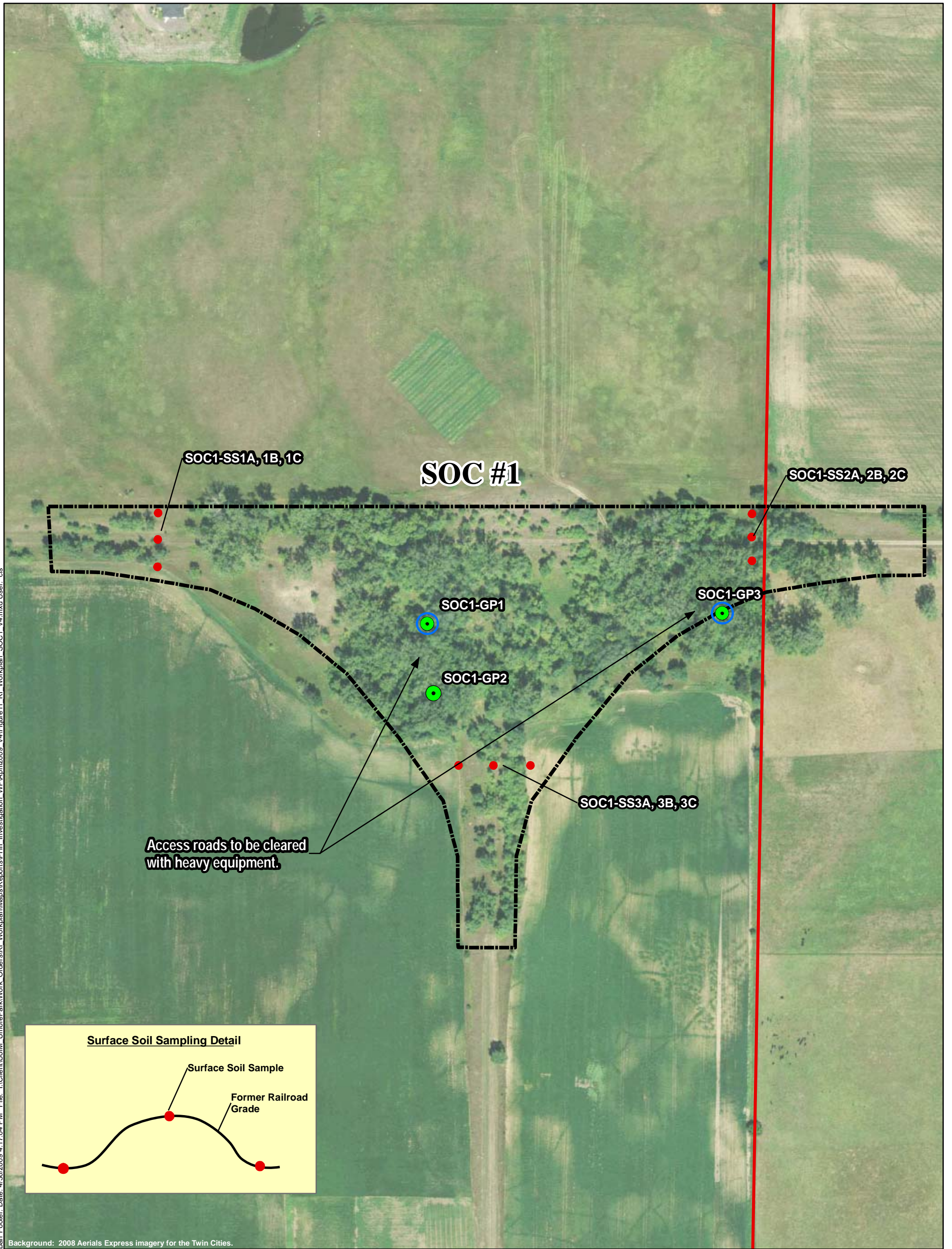
- SOC #1 Former Railroad "Y"
- SOC #2 Forestry Research/Former GOW Storage
- SOC #3 Ag. Engineering/K Street Dump
- SOC #4 Former DNT Platform and AOC 3-DA1
- SOC #5 Central Services/Former DNT Bunkers (AOC 5)
- SOC #6 Southern Complex Storage Buildings and Wash Pads
- SOC #7 Susp. Disposal Area
- SOC #8 Undet. Use Area



Source: Dakota County, Barr, SEH, HKGi.

Figure 10
SITE OF CONCERN LOCATIONS
Phase II Investigation Work Plan
Sites of Concern 1-3, 6-8
UMore Mining Area
Dakota County, MN





Barr Footer: Date: 4/30/2009 4:17:04 PM. File: I:\Client\UonM_UmorePark\Work_Orders\RI_Investigation_WP\April2009_V4\Figure11_RI_Workplan_SOC1_V4.mxd User: cjs

Background: 2008 Aerials Express imagery for the Twin Cities.

- UMore Mining Area (UMA)
- Site of Concern (SOC) Boundary
- Direct Push Boring for Soil Sampling
- Direct Push Boring for Soil and/or Groundwater Sampling
- Surface Soil Sampling

Notes:
 1. Based on field observation, test trenches may consist of discontinuous test pits excavated throughout the planned trench limits.
 2. Sample locations are approximate and may vary depending on site conditions.
 Source: Dakota County, Barr, SEH, HKGi.

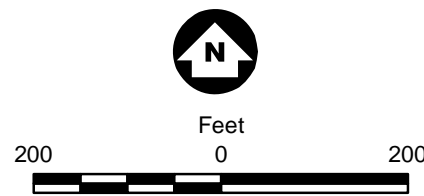
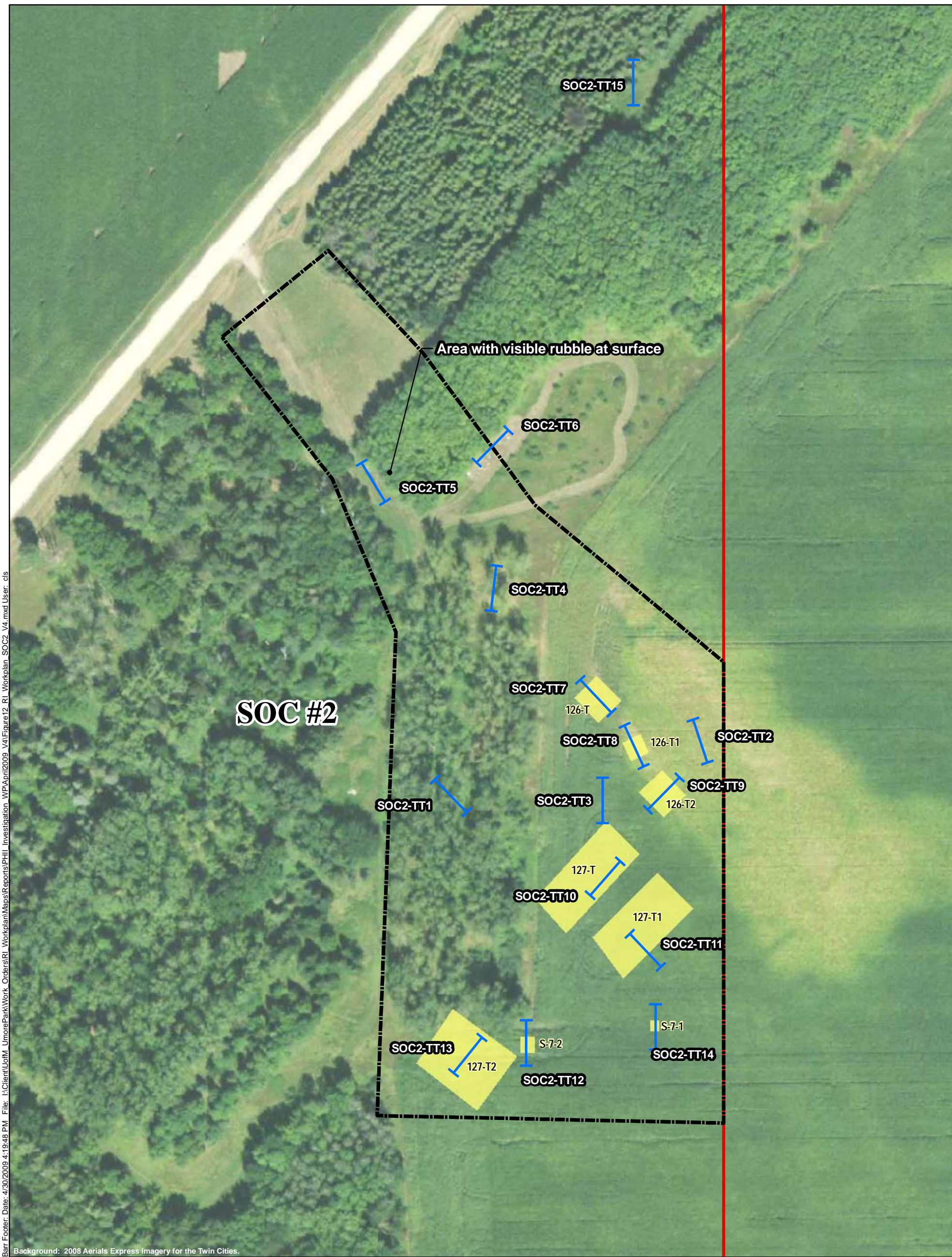


Figure 11
 SOC #1- RAILROAD "Y"
 SAMPLING LOCATIONS

Phase II Investigation Work Plan
 Sites of Concern 1-3, 6-8
 UMore Mining Area
 Dakota County, MN





Barr Footer: Date: 4/30/2009 4:19:48 PM. File: I:\Client\UonM_UmorePark\Work_Orders\RI_Investigation_WP\April2009_V4\Figure12_RI_Workplan_SOC2_V4.mxd User: dls

Background: 2008 Aerials Express imagery for the Twin Cities.

- UMore Mining Area (UMA)
- Site of Concern (SOC) Boundary
- Former GOW Building (location from Dakota Co.)
- Test Trench

Notes:
 1. Based on field observation, test trenches may consist of discontinuous test pits excavated throughout the planned trench limits.
 2. Sample locations are approximate and may vary depending on site conditions.
 Source: Dakota County, Barr, SEH, HKGI.

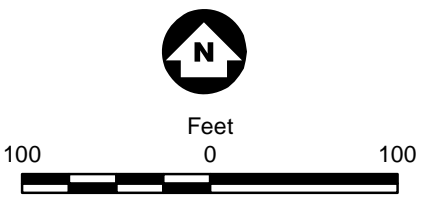


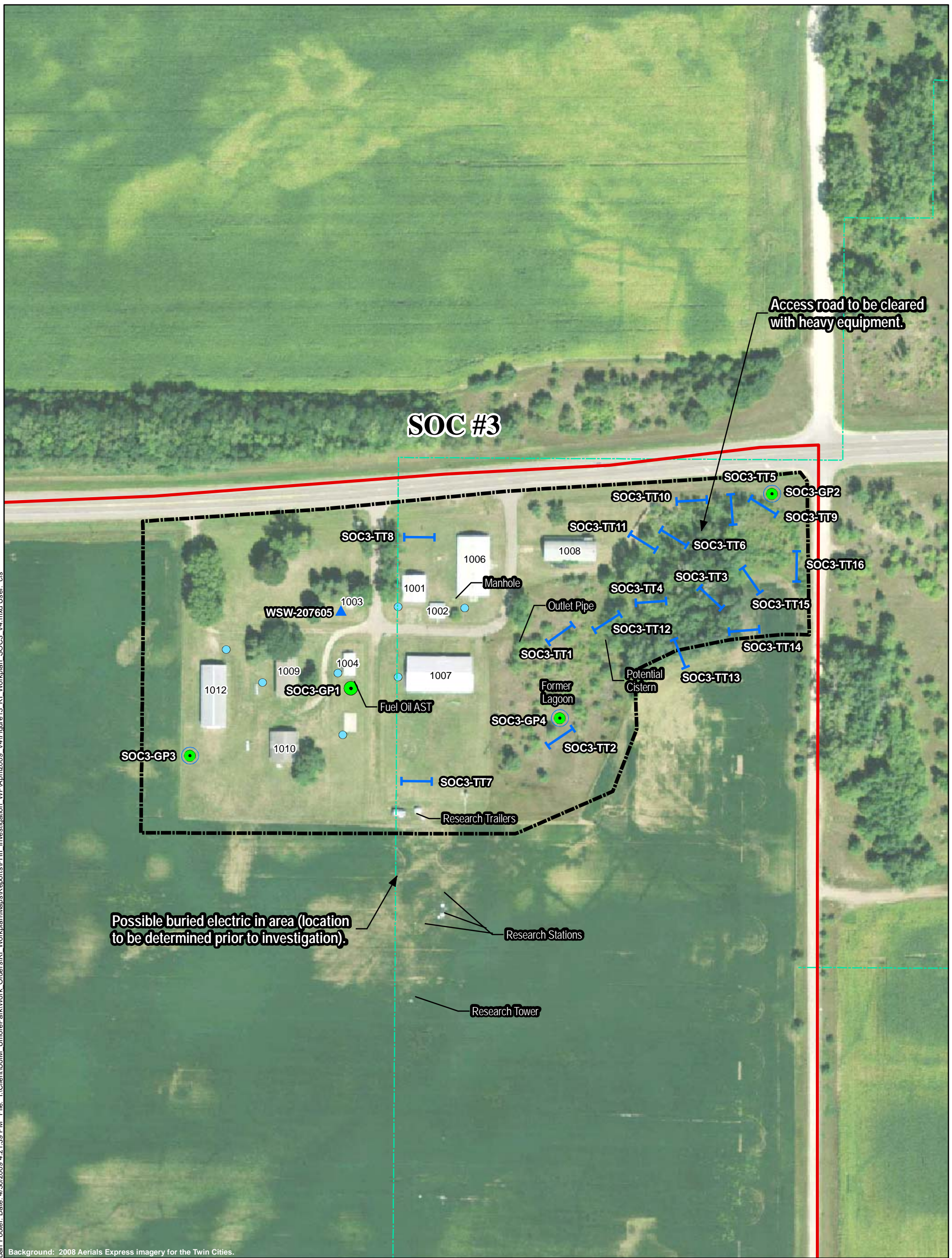
Figure 12

**SOC #2 - FORESTRY RESEARCH/
 FORMER GOW STORAGE
 SAMPLING LOCATIONS**

Phase II Investigation Work Plan
 Sites of Concern 1-3, 6-8
 UMore Mining Area
 Dakota County, MN



Barr Footer: Date: 4/30/2009 4:21:39 PM. File: I:\Client\UonM_UmorePark\Work_Orders\RI_Workplan\Maps\Reports\PHI_Investigation_WP\April2009_V4\Figure13_RI_Workplan_SOC3_V4.mxd User: cjs



Background: 2008 Aerials Express imagery for the Twin Cities.

- UMore Mining Area (UMA)
- Site of Concern (SOC) Boundary
- Direct Push Boring for Soil Sampling
- Direct Push Boring for Soil and/or Groundwater Sampling
- ▲ Water Sample from Existing Well
- Test Trench

- Standpipe with Hand Valve
- GOW Era Sewer Line (from Dakota Co.)

Notes:
 1. Based on field observation, test trenches may consist of discontinuous test pits excavated throughout the planned trench limits.
 2. Sample locations are approximate and may vary depending on site conditions.
 3. WSW = water supply well.
 4. Test trenches 9-16 will be used to determine extent of buried debris as needed.

Source: Dakota County, Barr, SEH, HKGI.

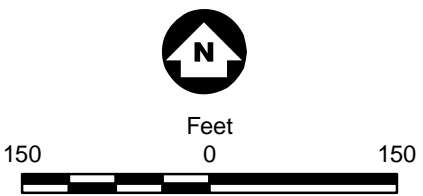


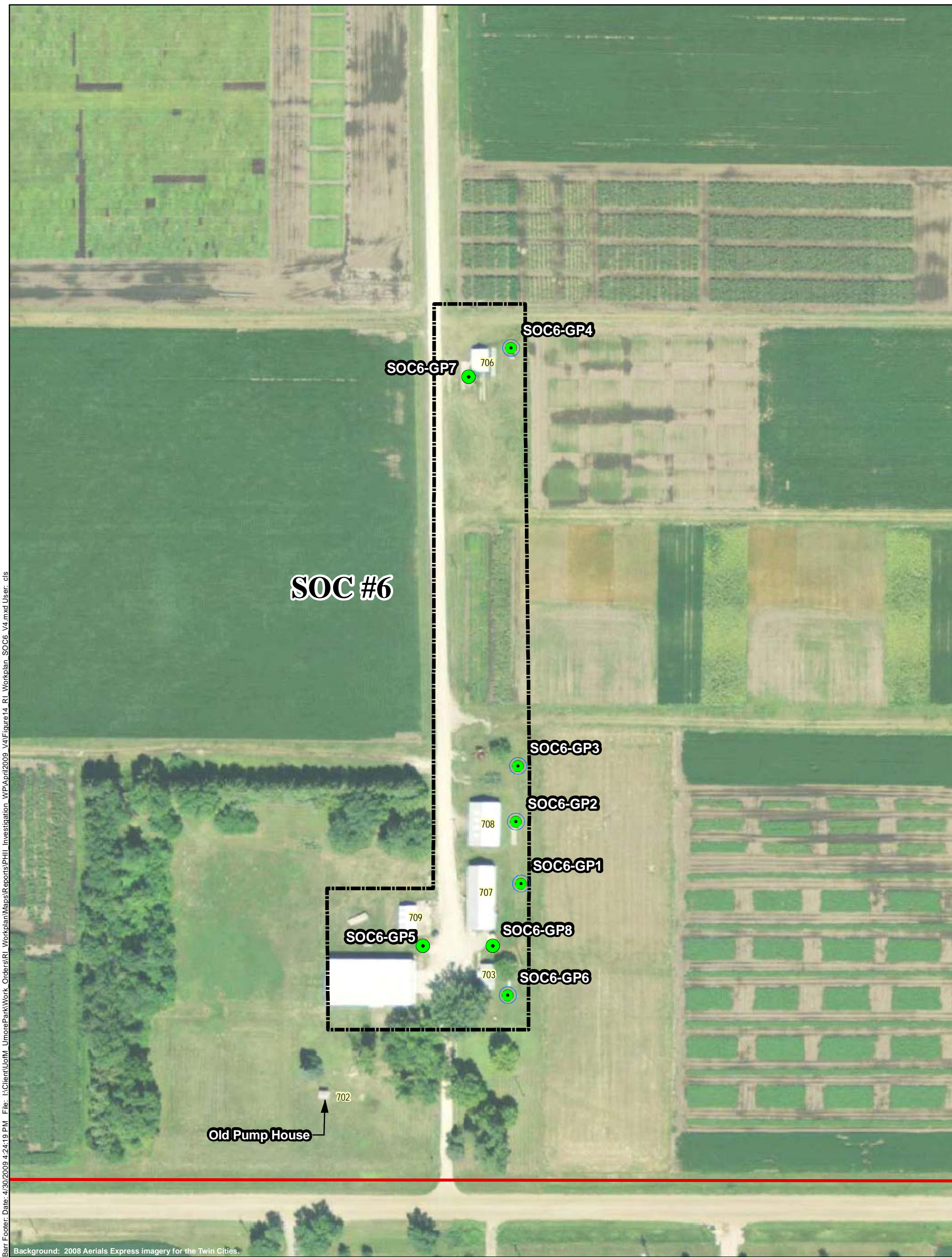
Figure 13

**SOC #3 - AGRICULTURAL ENGINEERING/
 FORMER "K" STREET DUMP AREA
 AND SAMPLING LOCATIONS**

Phase II Investigation Work Plan
 Sites of Concern 1-3, 6-8
 UMore Mining Area
 Dakota County, MN



Barr Footer: Date: 4/30/2009 4:24:19 PM. File: I:\Client\UonM_UmorePark\Work_Orders\RI_Investigation_WP\April2009_VA\Figure14_RI_Workplan_SOC6_V4.mxd User: dls



- UMore Mining Area (UMA)
- Site of Concern (SOC) Boundary
- Direct Push Boring for Soil Sampling
- Direct Push Boring for Soil and/or Groundwater Sampling

Notes:
 1. Sample locations are approximate and may vary depending on site conditions.
 Source: Dakota County, Barr, SEH, HKGI.

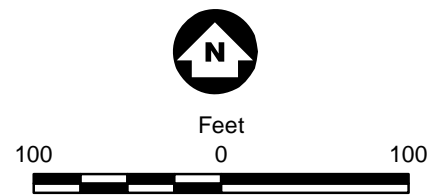
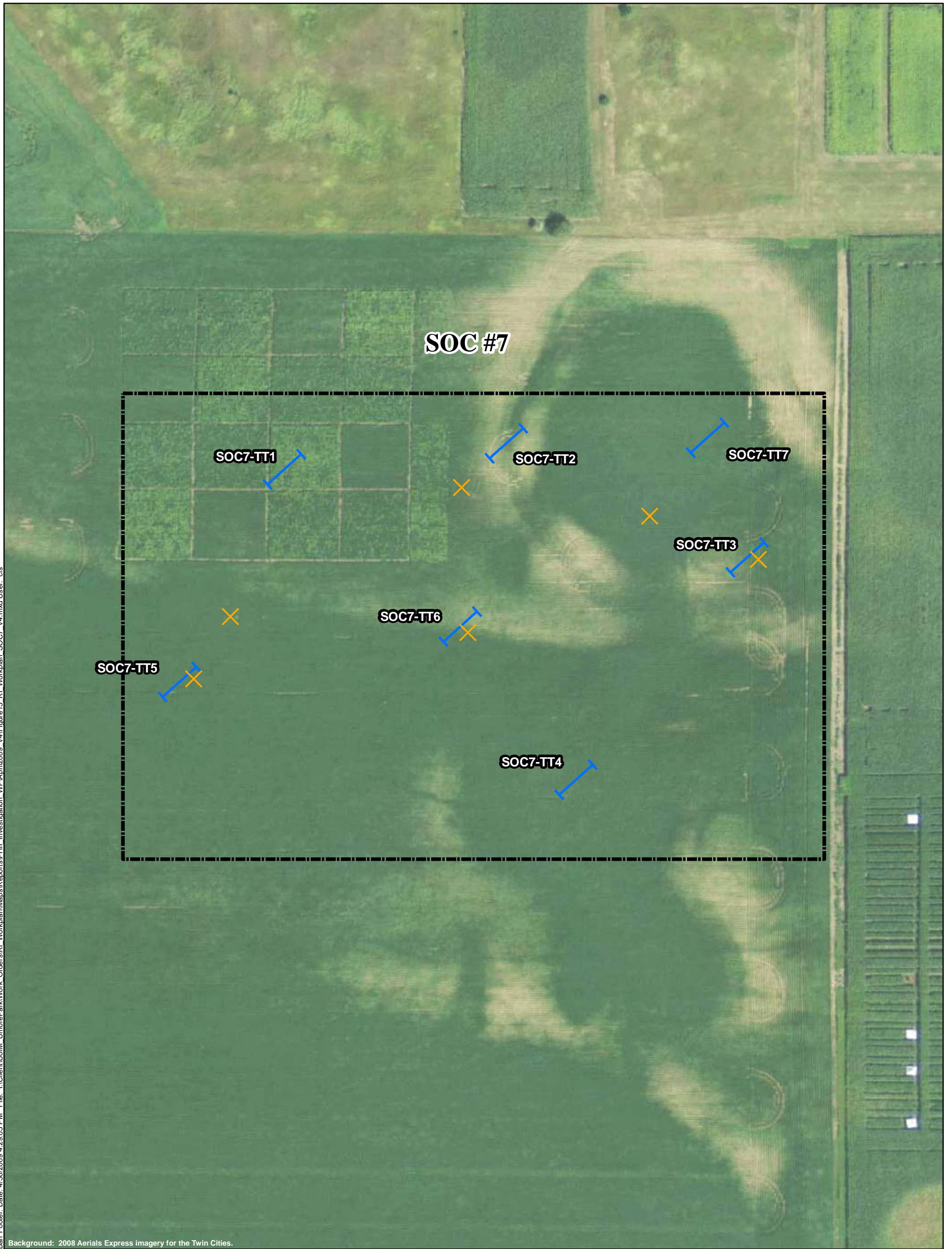


Figure 14

**SOC #6 - SOUTHERN COMPLEX
 STORAGE BUILDINGS AND WASH PADS
 SAMPLING LOCATIONS**




Phase II Investigation Work Plan
 Sites of Concern 1-3, 6-8
 UMore Mining Area
 Dakota County, MN





Barr Footer: Date: 4/30/2009 4:29:05 PM. File: I:\Client\UonM_UmorePark\Work_Orders\RI_Investigation_WP\April2009_V4\Figure15_RI_Workplan_SOC7_V4.mxd User: dls

Background: 2008 Aerials Express imagery for the Twin Cities.

-  Site of Concern (SOC) Boundary
-  Test Trench
-  Approximate Location of Debris Fragments Observed in Surface Soil

Notes:
 1. Based on field observation, test trenches may consist of discontinuous test pits excavated throughout the planned trench limits.
 2. Sample locations are approximate and may vary depending on site conditions.
 Source: Dakota County, Barr, SEH, HKGI.

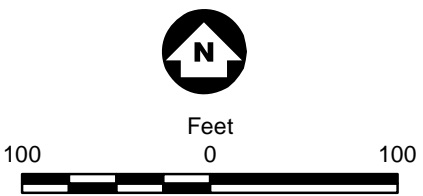
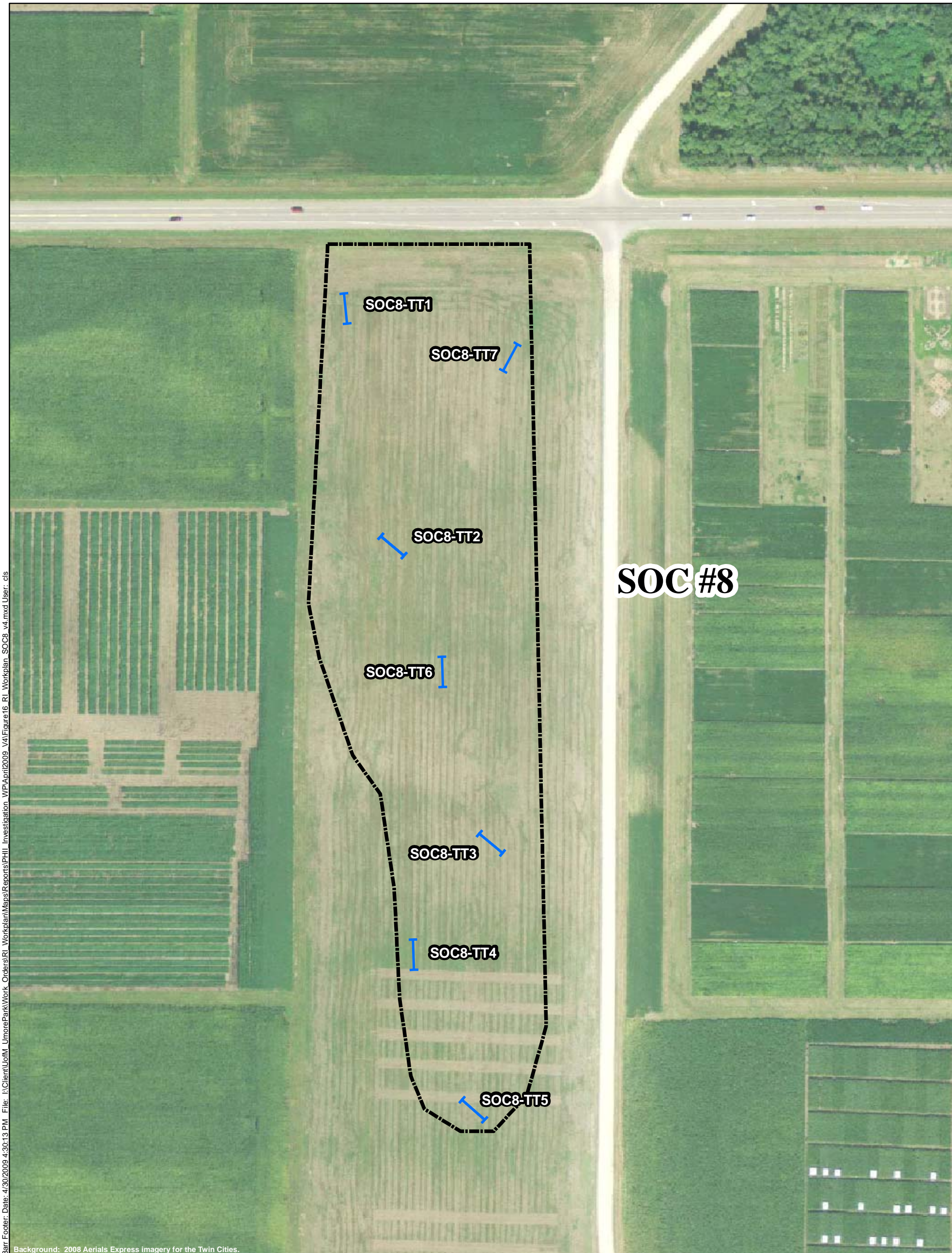


Figure 15

SOC #7 - SUSPECTED DUMP AREA SAMPLING LOCATIONS

Phase II Investigation Work Plan
 Sites of Concern 1-3, 6-8
 UMore Mining Area
 Dakota County, MN





Barr Footer: Date: 4/30/2009 4:30:13 PM. File: I:\Client\UonM_UmorePark\Work_Orders\RI_Workplan\Maps\Reports\PHI_Investigation_WP\April2009_V4\Figure16_RI_Workplan_SOC8_v4.mxd User: els

Background: 2008 Aerials Express imagery for the Twin Cities.

- UMore Mining Area (UMA)
- Site of Concern (SOC) Boundary
- | Test Trench

Notes:
 1. Based on field observation, test trenches may consist of discontinuous test pits excavated throughout the planned trench limits.
 2. Sample locations are approximate and may vary depending on site conditions.
 Source: Dakota County, Barr, SEH, HKGI.

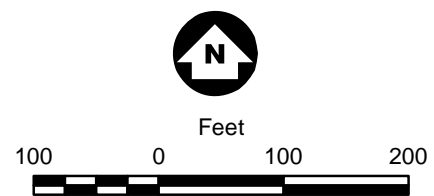


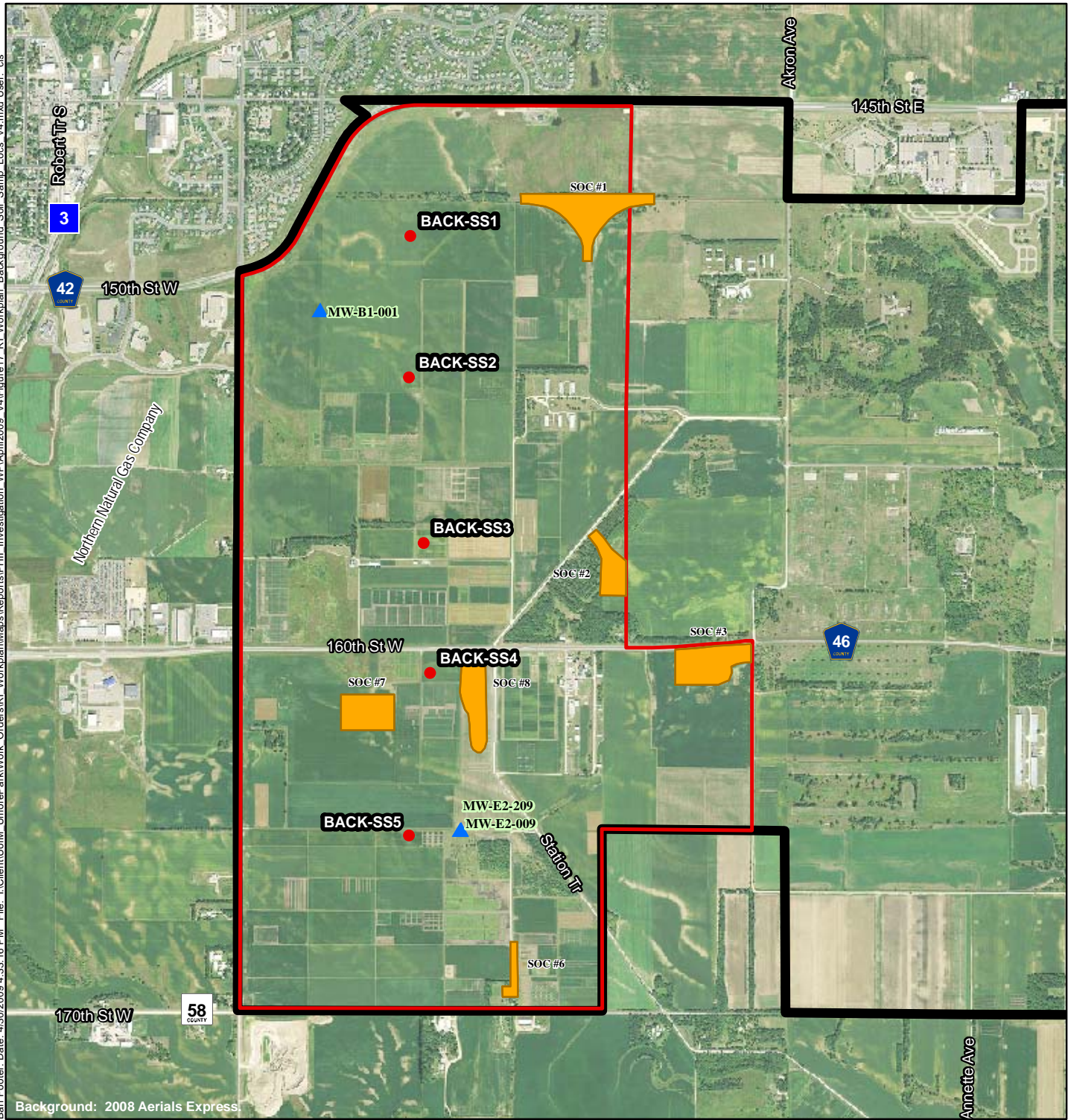
Figure 16

SOC #8 - UNDETERMINED USE AREA
 WEST OF PATROL ROAD (SOUTH OF CR 46)

Phase II Investigation Work Plan
 Sites of Concern 1-3, 6-8
 UMore Mining Area
 Dakota County, MN



Barr Footer: Date: 4/20/2009 4:33:16 PM File: I:\Client\UoM_UmorePark\Work_Orders\RI_Workplan\Maps\Reports\PHI_Investigation_WP\April2009_VA\Figure17_RI_Workplan_Background_Soil_Samp_Locs_V4.mxd User: cjs



- UMore Mining Area (UMA)
- UMore Park Boundary
- Site of Concern (SOC) Boundary
- Surface Soil Sampling
- ▲ Monitoring Well Location



Figure 17

**BACKGROUND SOIL AND
GROUNDWATER
SAMPLING LOCATIONS**

Phase II Investigation Work Plan
Sites of Concern 1-3, 6-8
UMore Mining Area
Dakota County, MN

