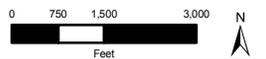


Legend

Land owner

- Army Nat. Guard
- Chem Waste
- NFSS
- Former Lewiston Landfill
- JT Salvage
- Lewiston
- Lewport
- Modern Landfill
- Niagara Mohawk
- Niagara Recycle
- Occidental
- Porter
- Private Landowners
- Somerset
- Standby (US Air Force)
- Roads



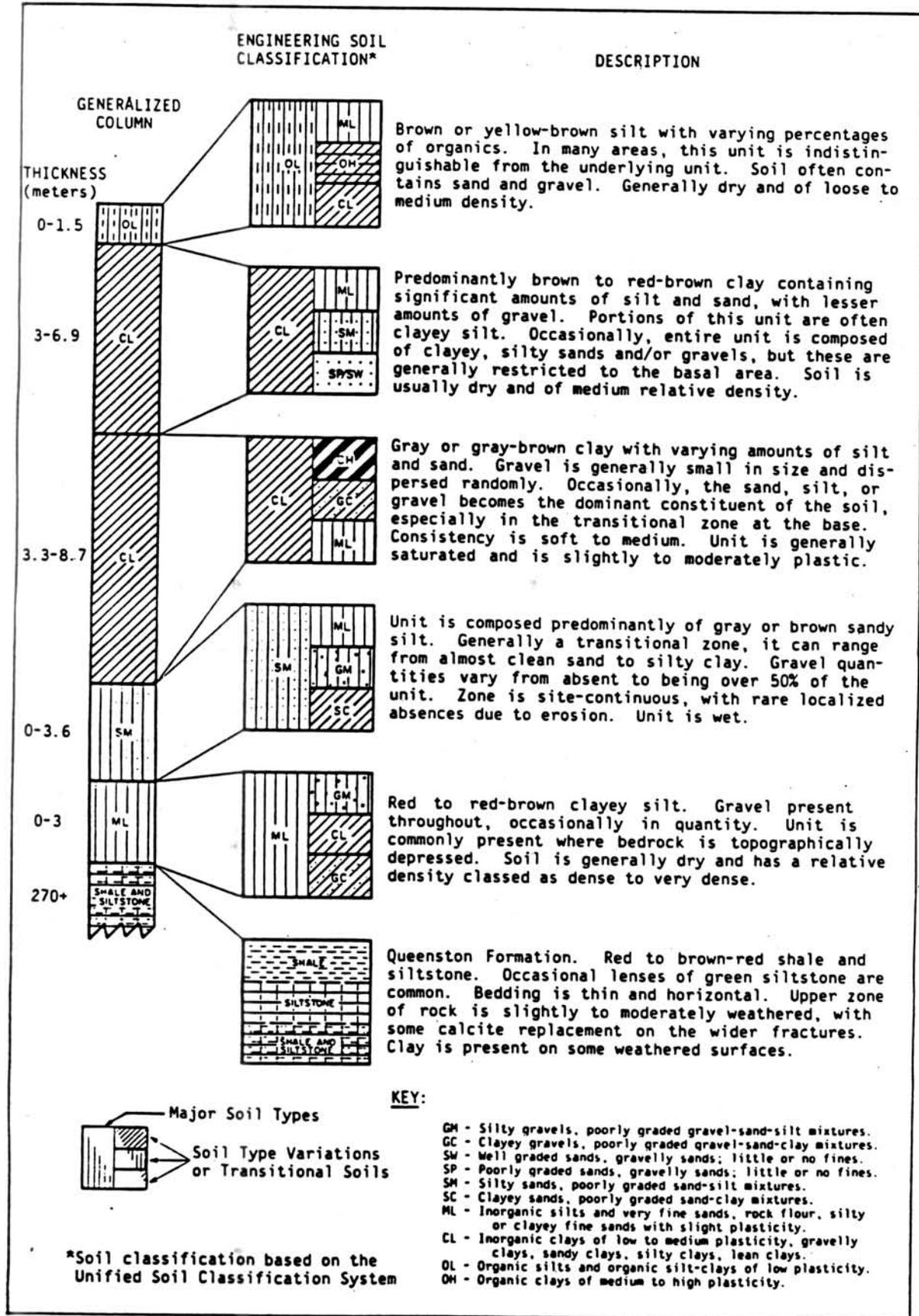
US Army Corps of Engineers
Buffalo District

Current Surrounding Land Use

NFSS and Surrounding Properties (LOOW)

SAIC Science Applications International Corporation Columbus, Ohio

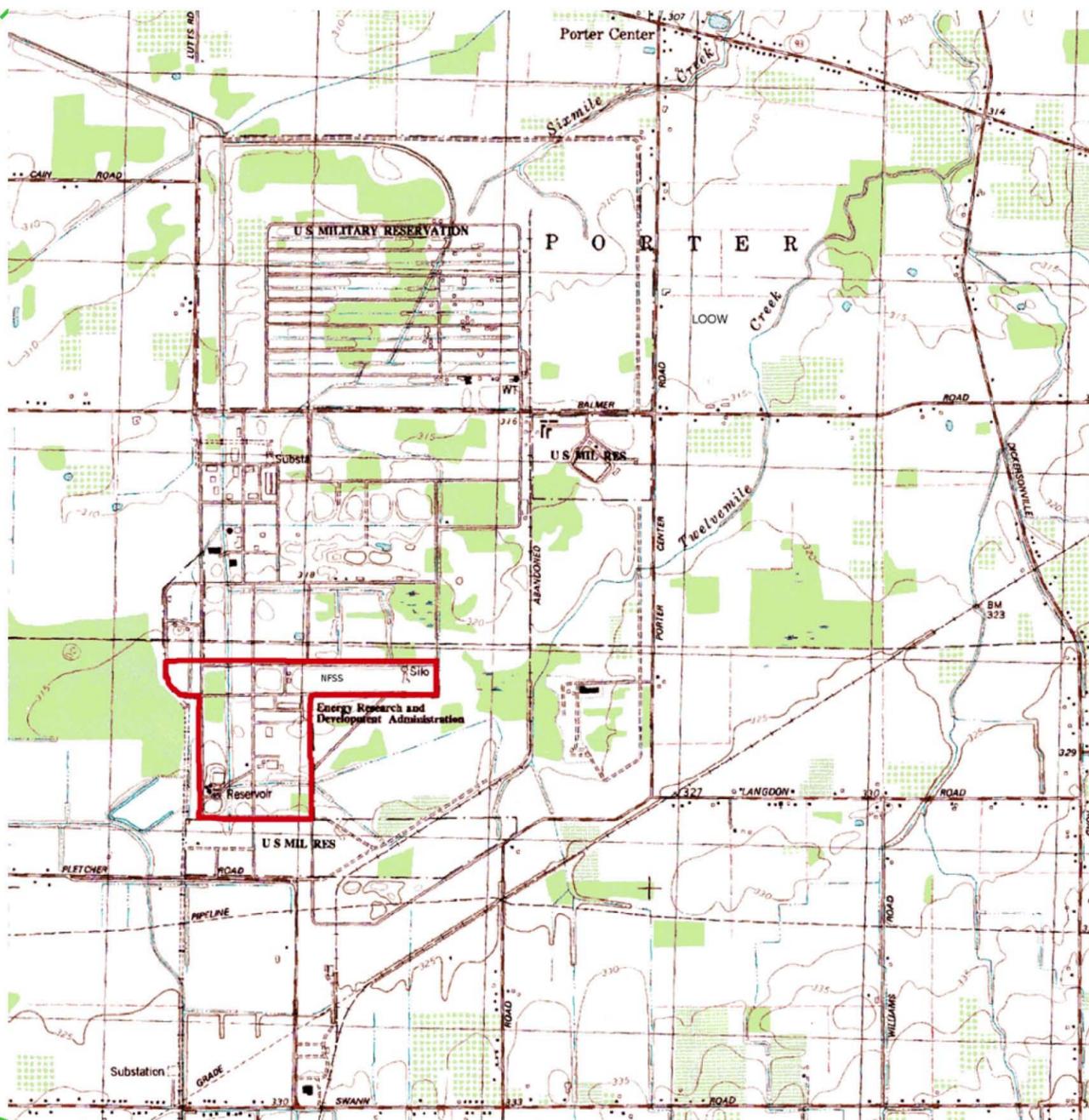
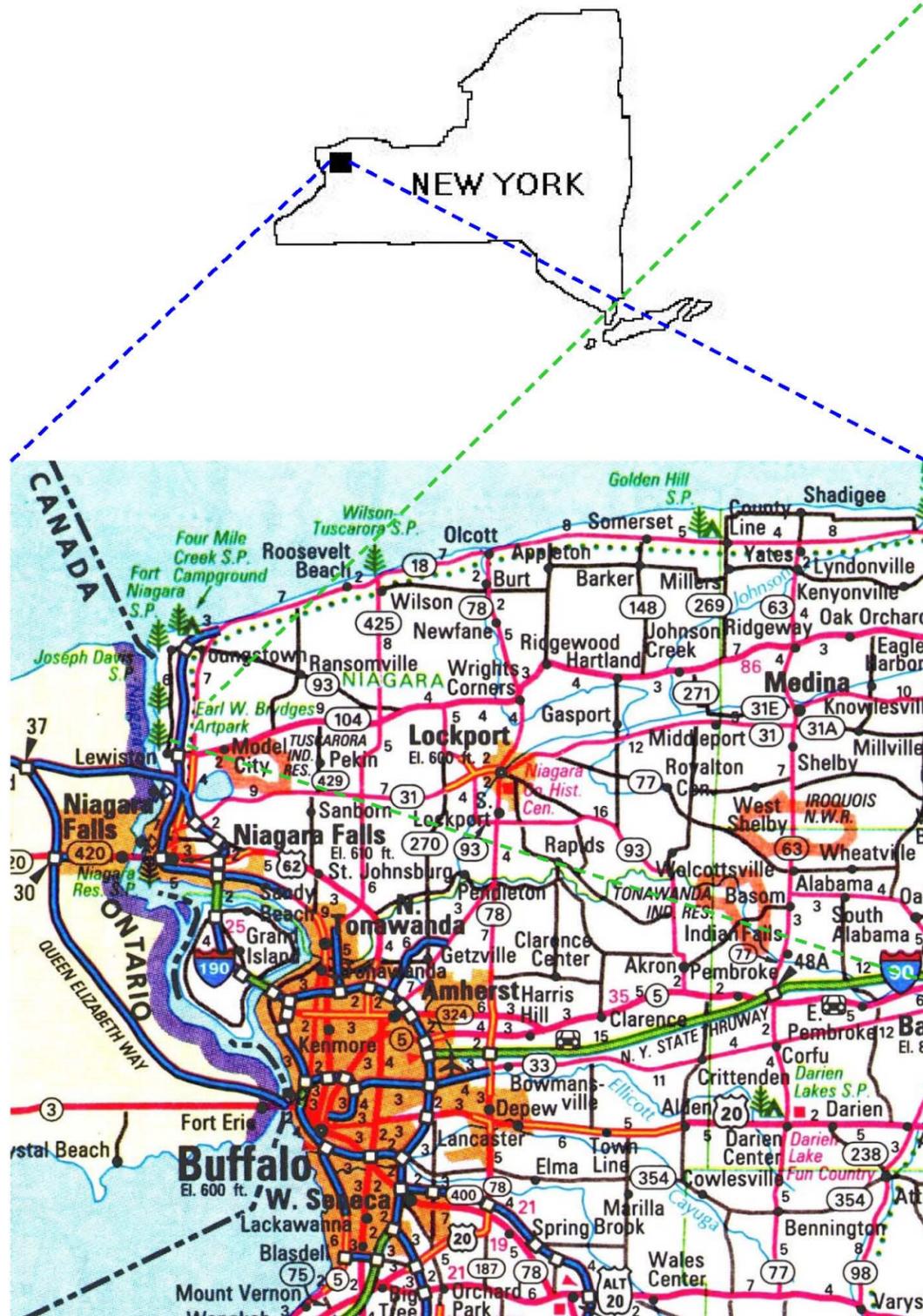
Figure ES-1



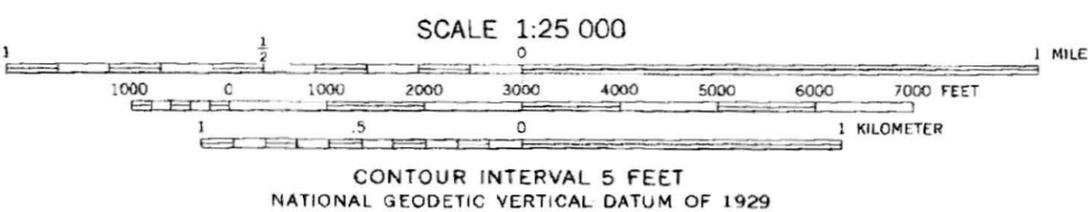
Generalized Geologic Column of Formations Under the Niagara Falls Storage Site

Source: Adapted From Acres American, Inc. (1981a)

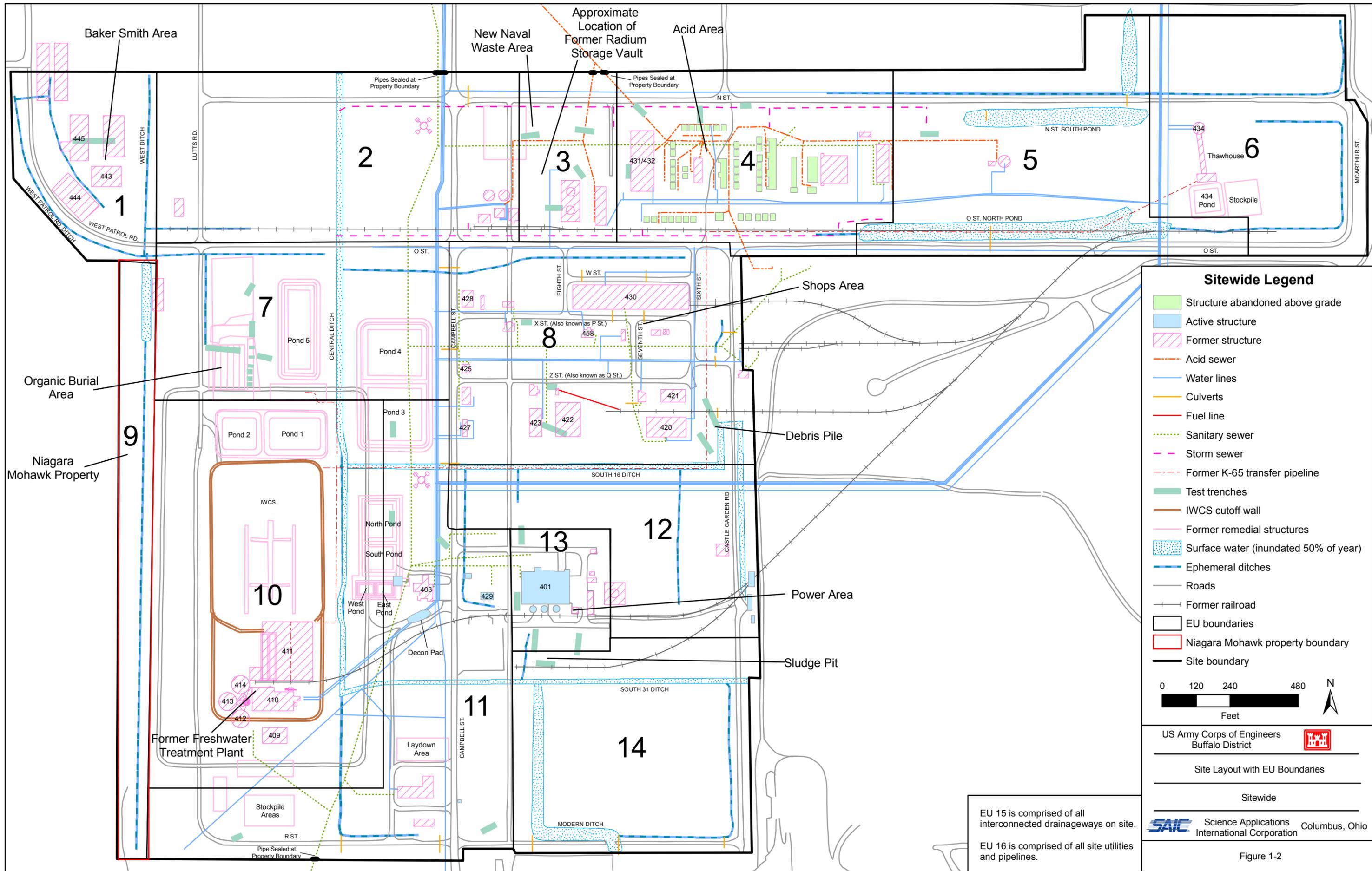
MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: ES-2
SCALE: Not to Scale	DATE: 11/13/2006
DRAWN BY: DWC	CHECKED BY: DEG



USGS Map from 1948



			
Site Vicinity Map Niagara Falls Storage Site Lewiston, New York			
Drawn By:	Reviewed By:	Date:	Figure No.:
DWC	DEG	3/02/2004	1-1
Checked By:	Approved By:	Project No.:	File Name:
DWG	DEG	15892	Site Map
			1634 Eastport Plaza Drive Cohasset, Illinois 62224 Phone: (618)345-2300 Fax: (618)345-1281



Sitewide Legend

- Structure abandoned above grade
- Active structure
- Former structure
- Acid sewer
- Water lines
- Culverts
- Fuel line
- Sanitary sewer
- Storm sewer
- Former K-65 transfer pipeline
- Test trenches
- IWCS cutoff wall
- Former remedial structures
- Surface water (inundated 50% of year)
- Ephemeral ditches
- Roads
- Former railroad
- EU boundaries
- Niagara Mohawk property boundary
- Site boundary

0 120 240 480 Feet

N

US Army Corps of Engineers
Buffalo District

Site Layout with EU Boundaries

Sitewide

SAIC Science Applications International Corporation Columbus, Ohio

Figure 1-2

EU 15 is comprised of all interconnected drainageways on site.

EU 16 is comprised of all site utilities and pipelines.

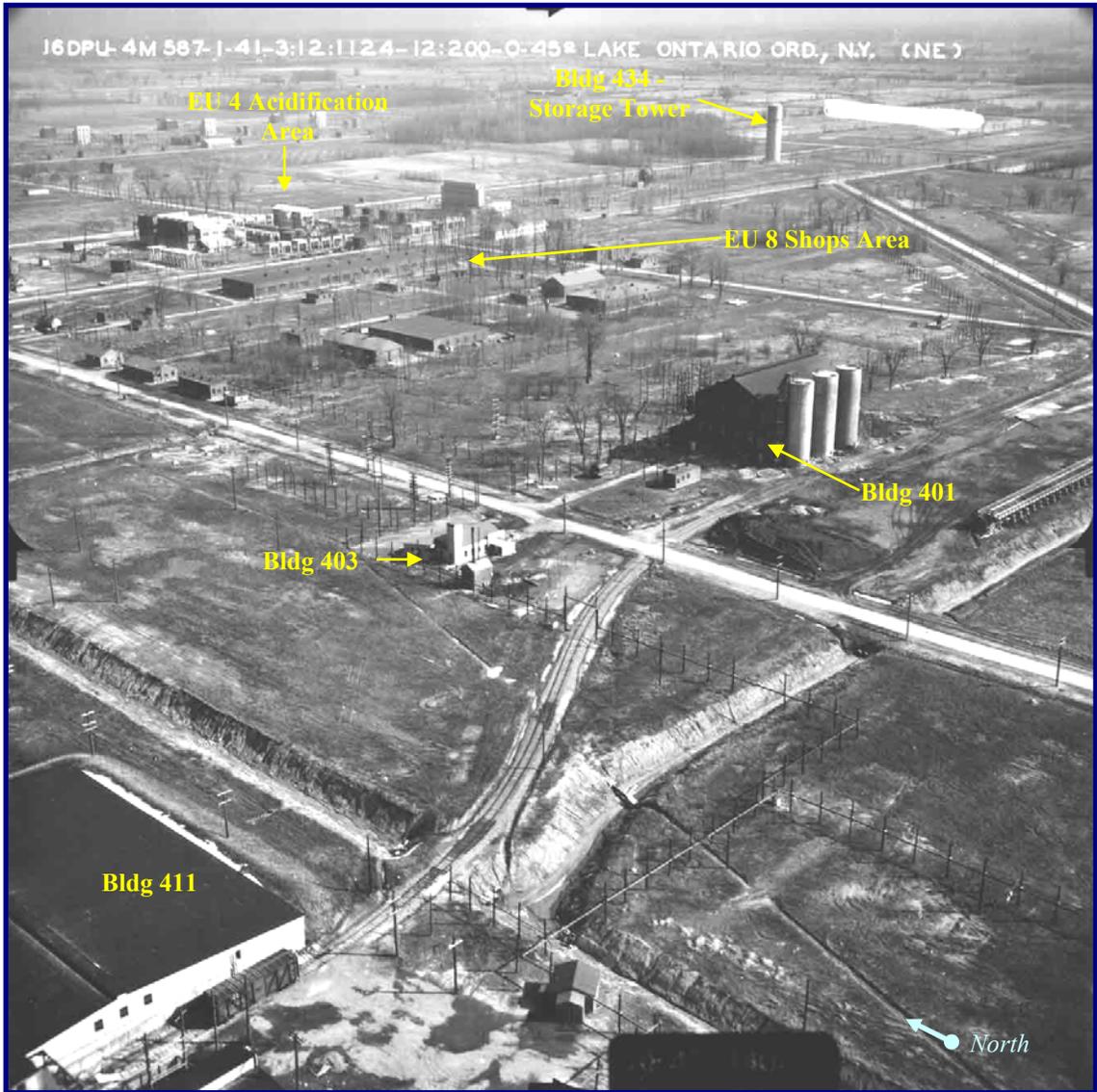


Figure 1-3. 1944 Aerial Photo of the NFSS (Looking North-East)

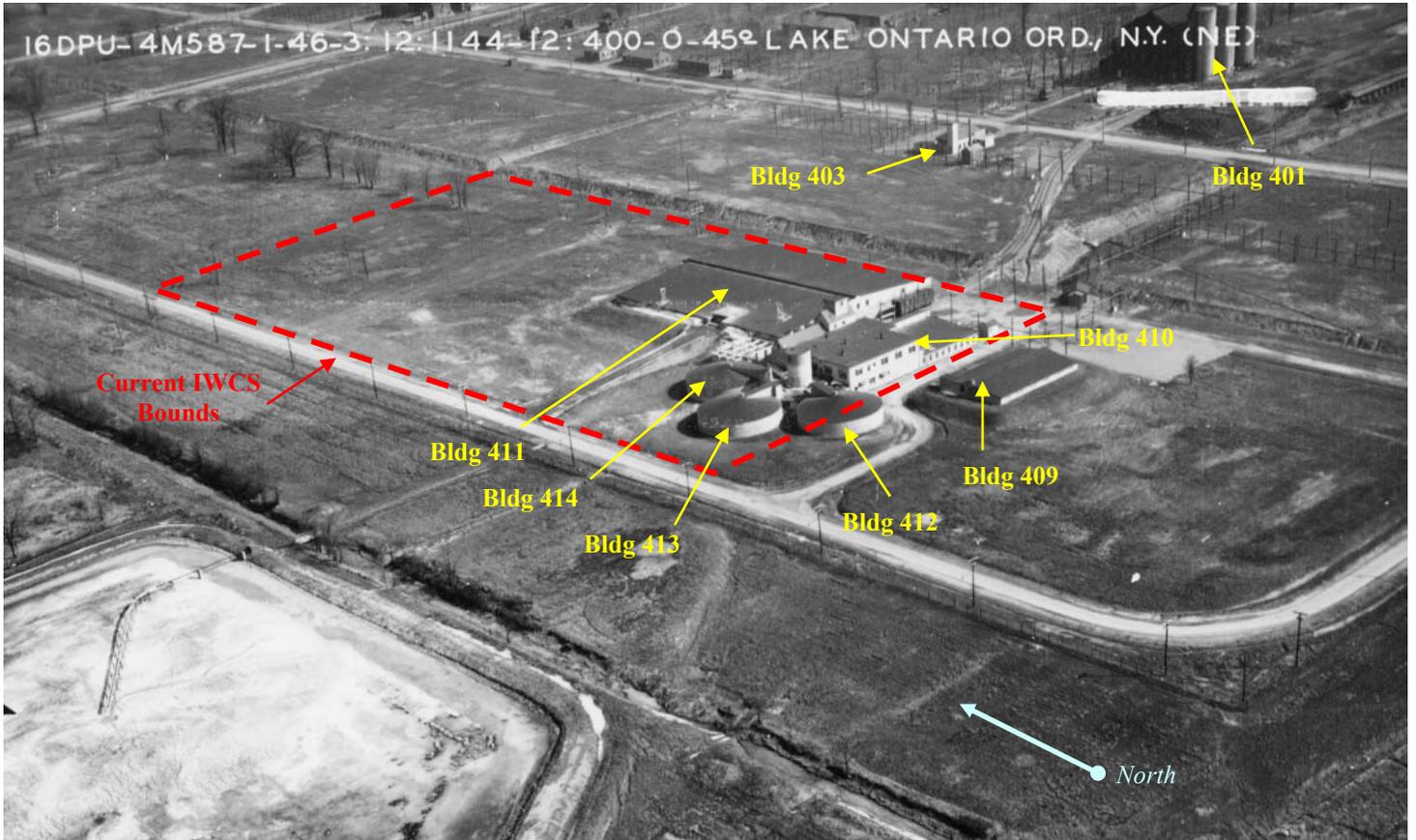
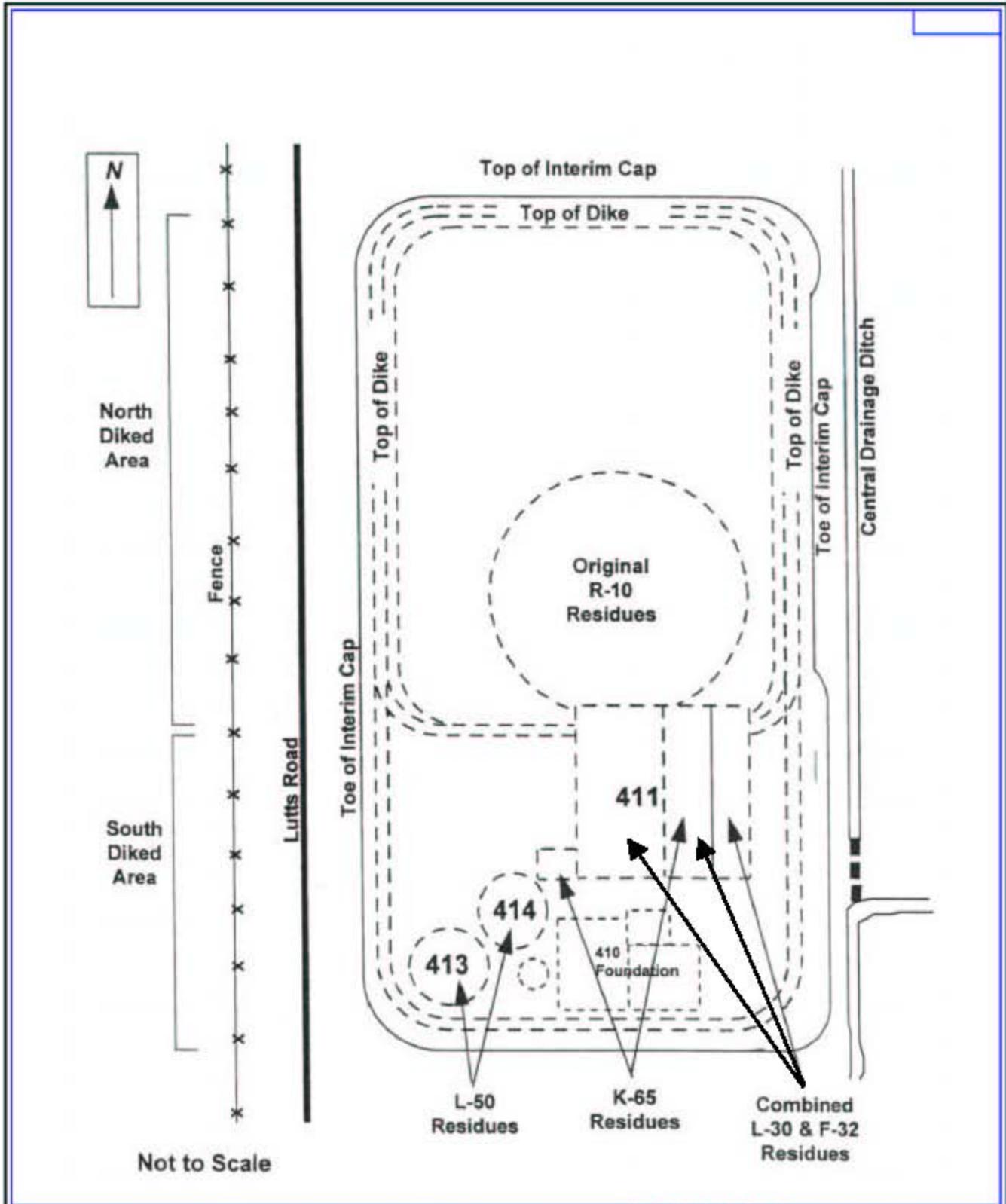
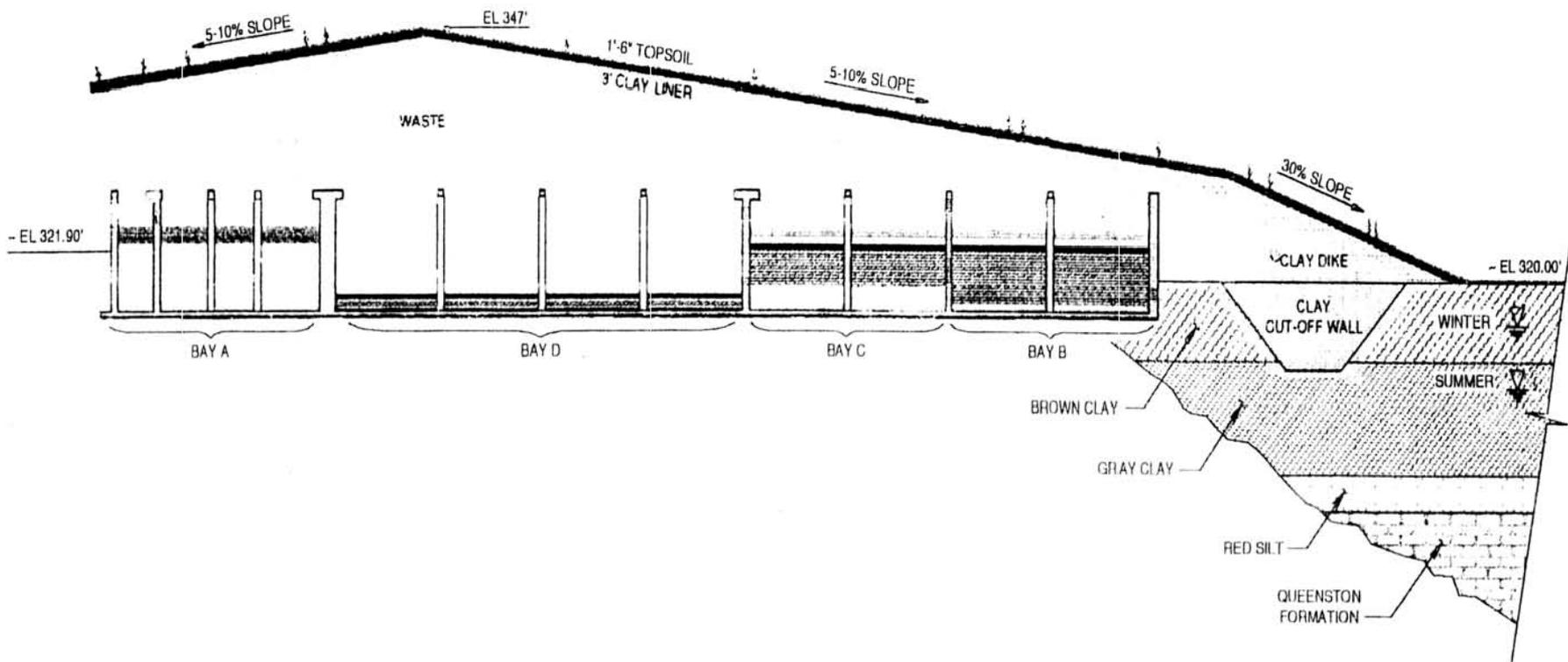


Figure 1-4. 1944 Aerial Photo of the NFSS (Looking North-East over Future Site of IWCS)



Plan View of the Interim Waste Containment Structure (IWCS),
 Showing Locations of Foundations of Cellars
 of Buildings 410, 411, 413, and 414 that Contain Residues
 (modified from DOE 1986)

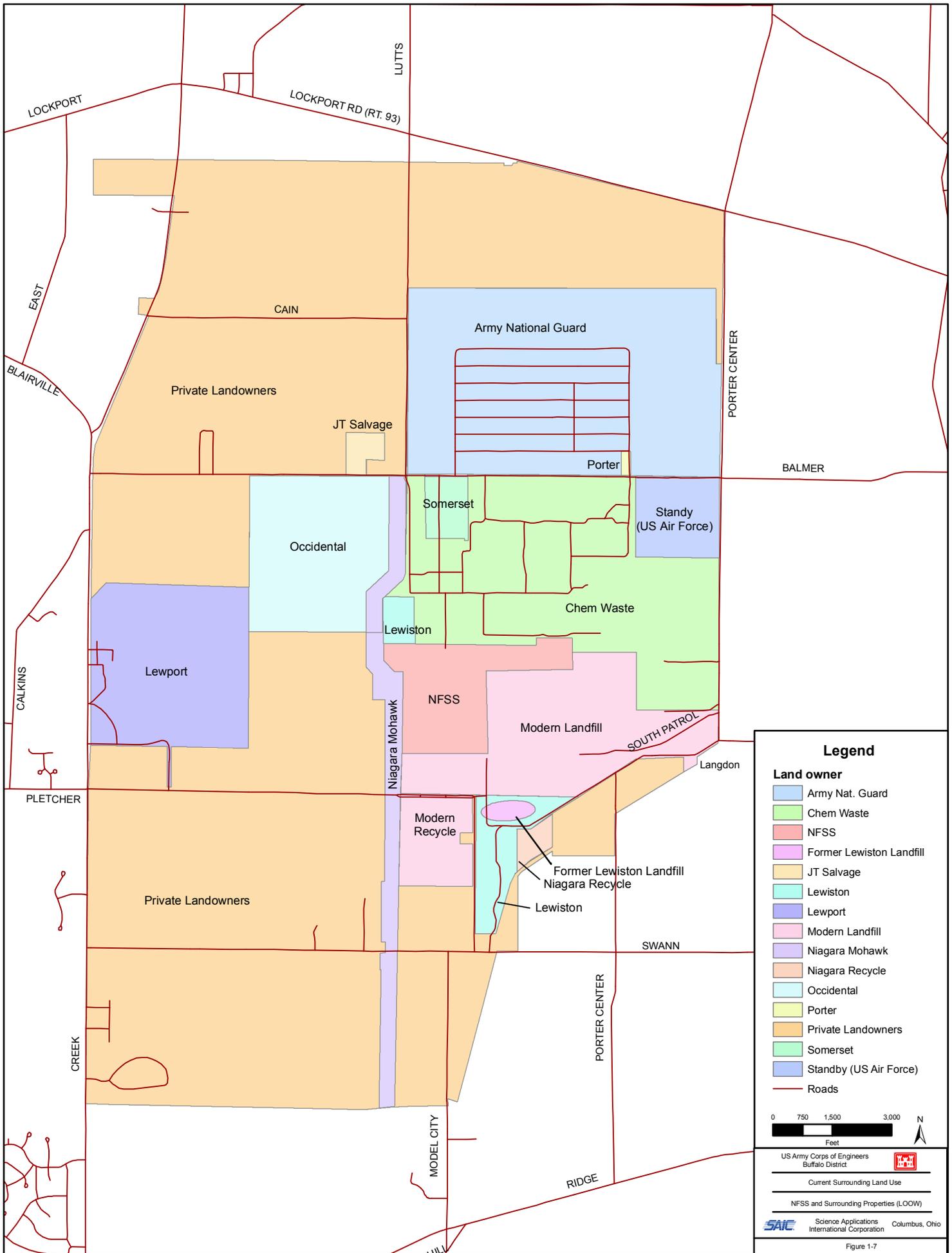
MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15982	FIGURE #: 1-5
SCALE: As Indicated	DATE: 11/10/2006
DRAWN BY: DWC	CHECKED BY: DEG

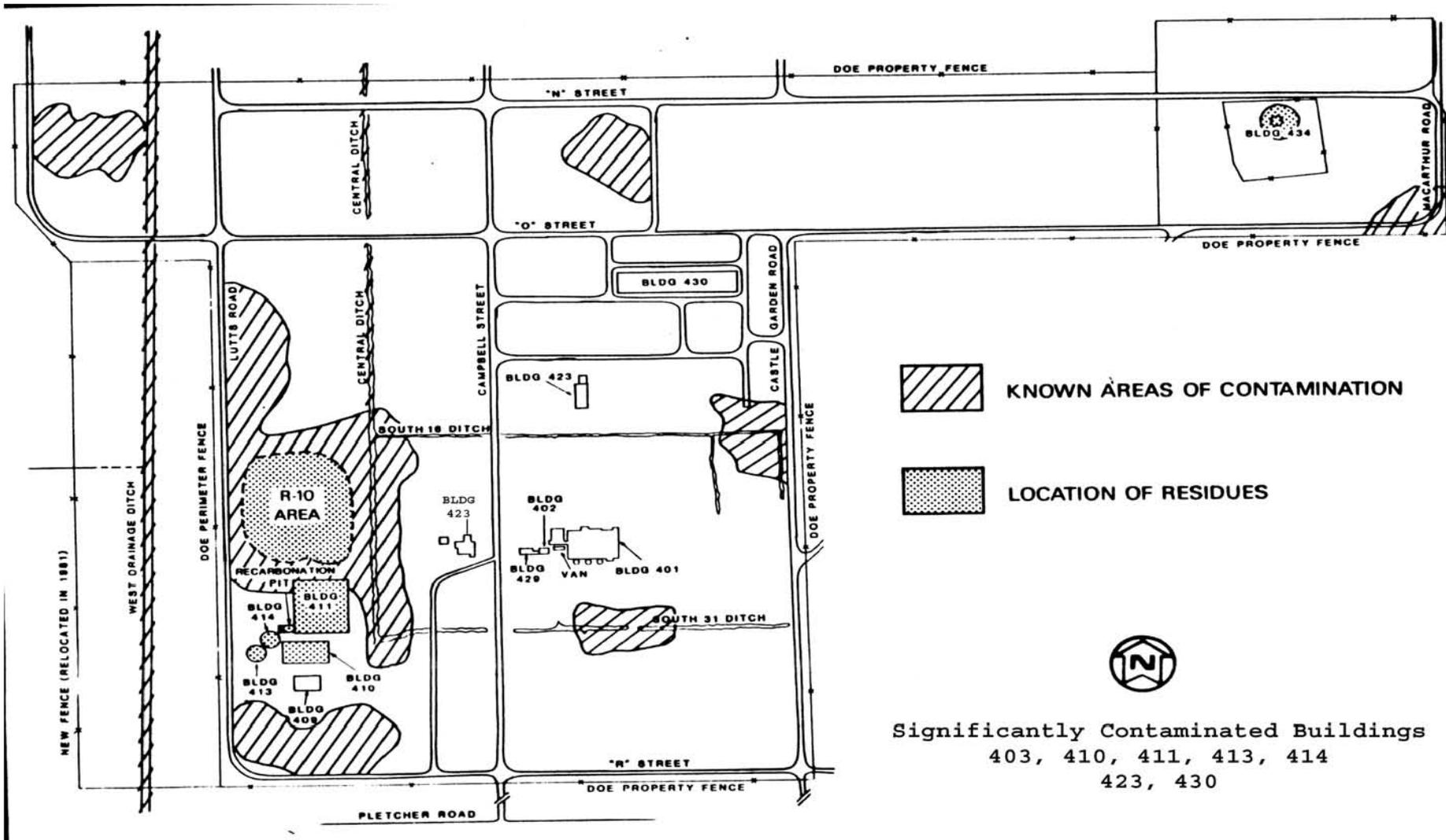


NIAGARA FALLS STORAGE SITE
 CROSS SECTION OF INTERIM WASTE CONTAINMENT STRUCTURE
 AND BUILDING 411
 SOURCE: DOE 1994

MAXIM TECHNOLOGIES INC.
 ST LOUIS, MO.

PROJECT NO. 9905008	FIGURE #: 1-6
SCALE: Not to Scale	DATE: 11/13/2008
DRAWN BY: DWC	CHECKED BY: DEG





Significantly Contaminated Buildings
 403, 410, 411, 413, 414
 423, 430

RADIOLOGICALLY CONTAMINATED AREAS IN 1979

SOURCE BATELLE 1981a

MAXIM TECHNOLOGIES INC.
 ST LOUIS, MO.

PROJECT NO. 15892 FIGURE #: 1-8

SCALE: As Shown DATE: 11/13/2008

DRAWN BY: DWC CHECKED BY: DEG



Figure 1-9. 1985 Aerial Photo of the NFSS (Looking East) Showing Construction Activities Taking Place at IWCS



Figure 1-10. Aerial Photo of Former K-65 Storage Tower (Silo)



Figure 1-11. Former K-65 Storage Tower Being Demolished During Residue Removal

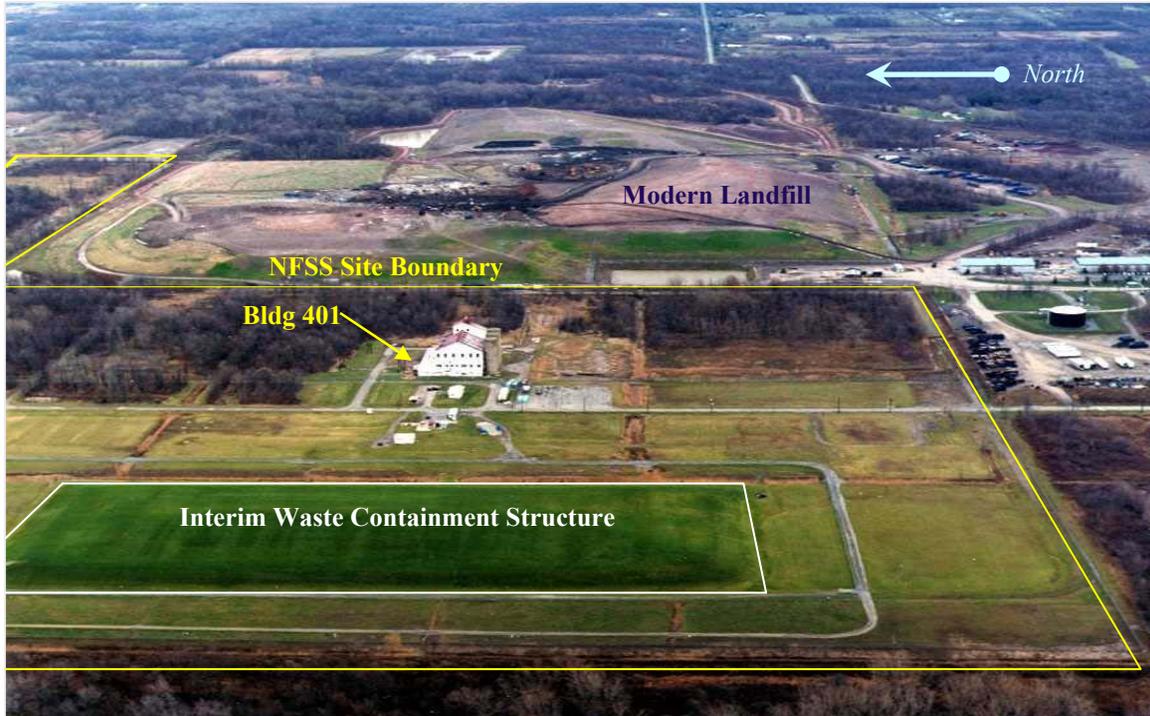
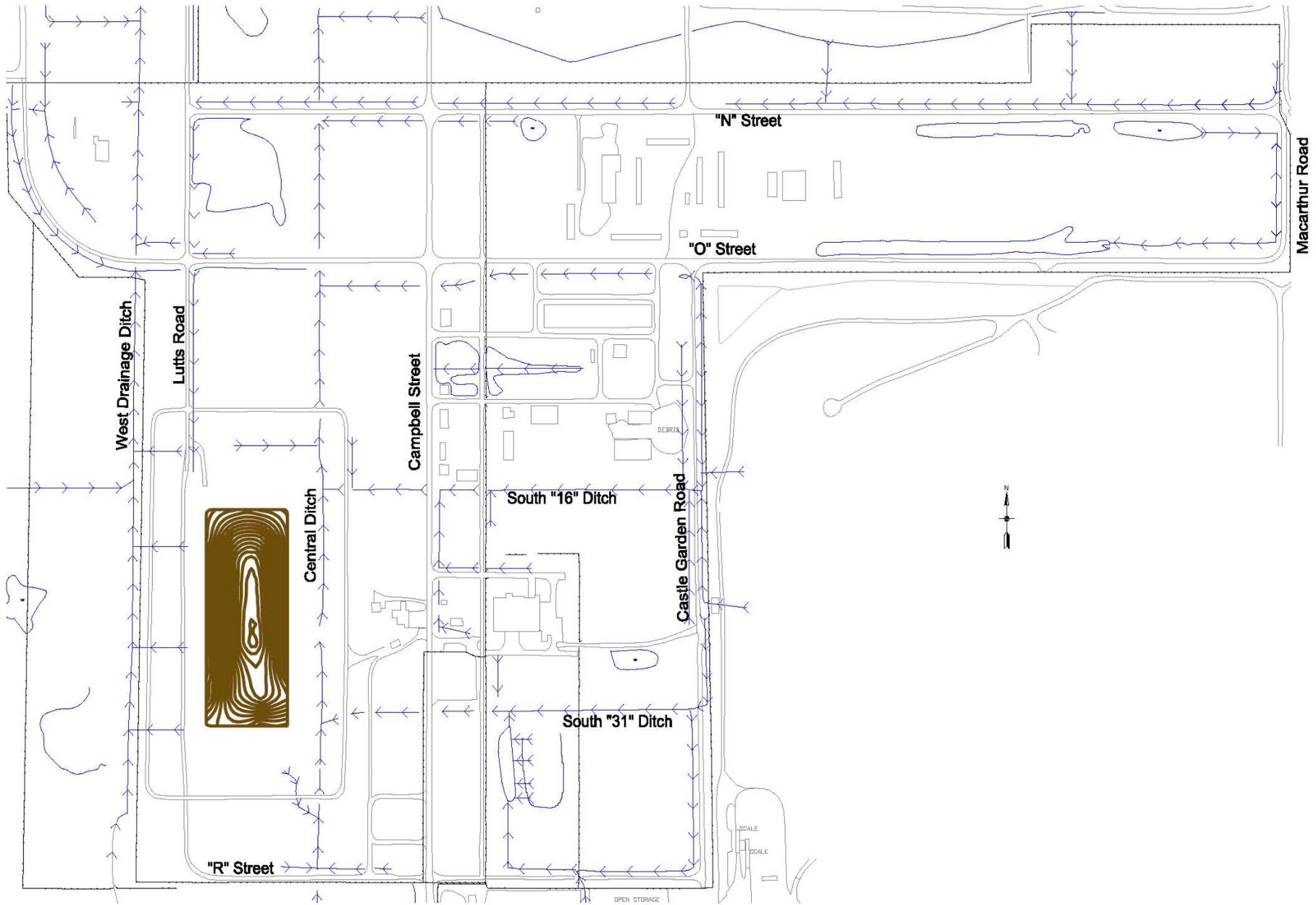


Figure 1-12. 2002 Aerial Photo of the Current IWCS



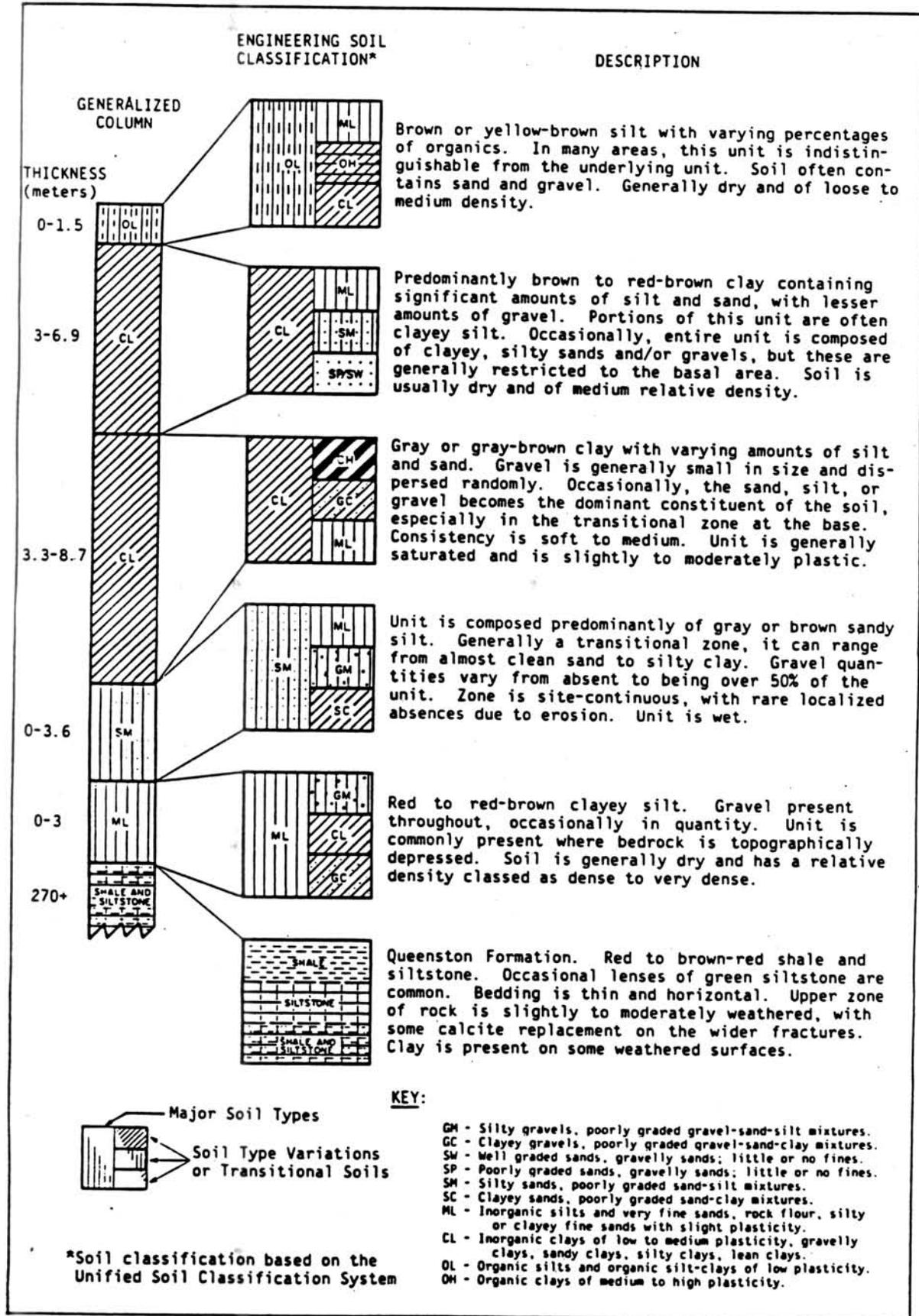
Site Surface Drainage



Tetra Tech

1634 Eesport Plaza Drive
 Collinsville, Illinois 62234
 Phone: (618)343-2300
 Fax: (618)345-1281

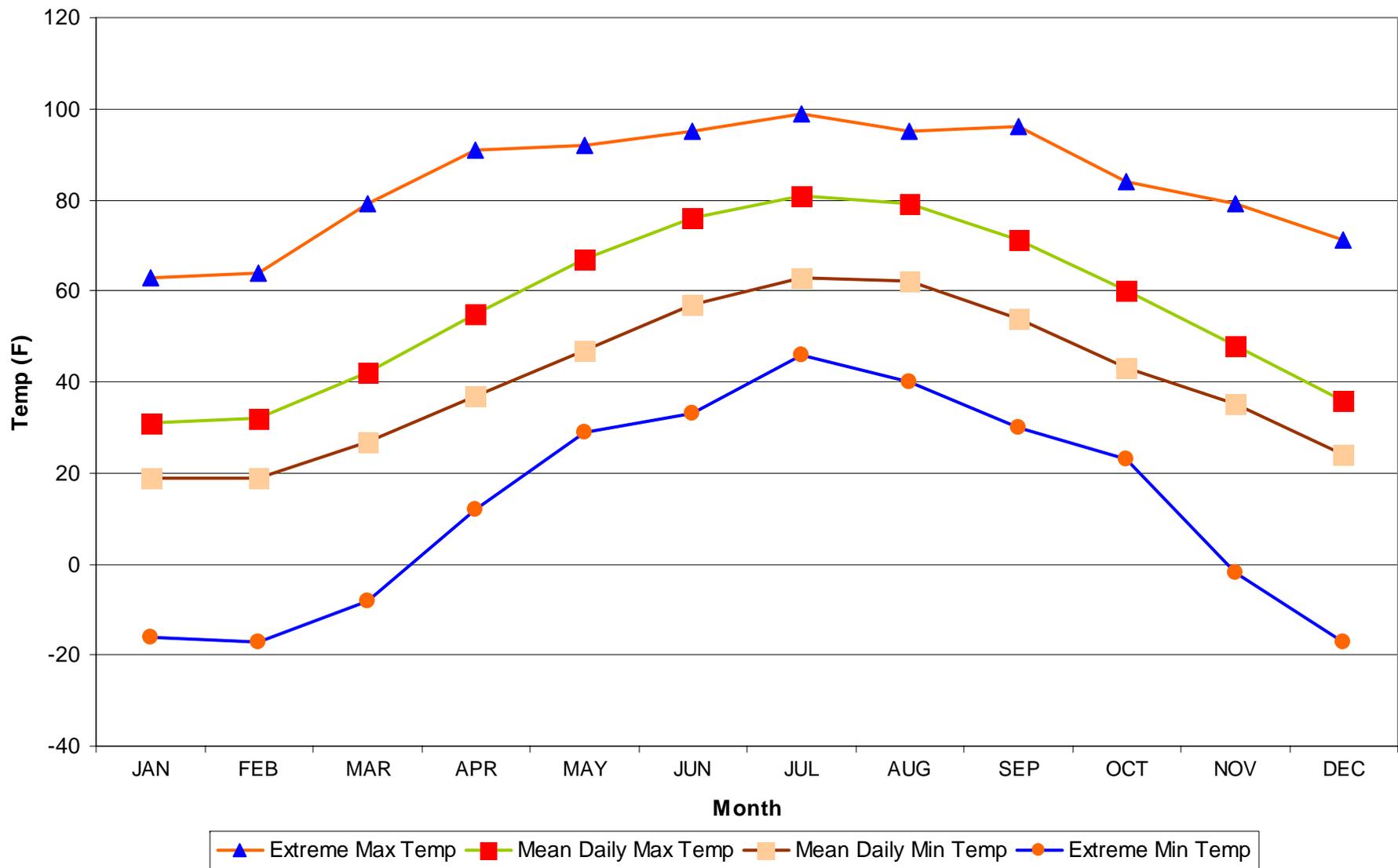
PROJECT NO. 15892	FIGURE #: 2-1
SCALE: Not to Scale	DATE: 11/13/2006
DRAWN BY: DWC	CHECKED BY: TL



Generalized Geologic Column of Formations Under the Niagara Falls Storage Site

Source: Adapted From Acres American, Inc. (1981a)

MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 2-2
SCALE: Not to Scale	DATE: 11/13/2006
DRAWN BY: DWC	CHECKED BY: DEG



Period of Record 1973-1995, SOURCE: Air Force Combat Climatology Center

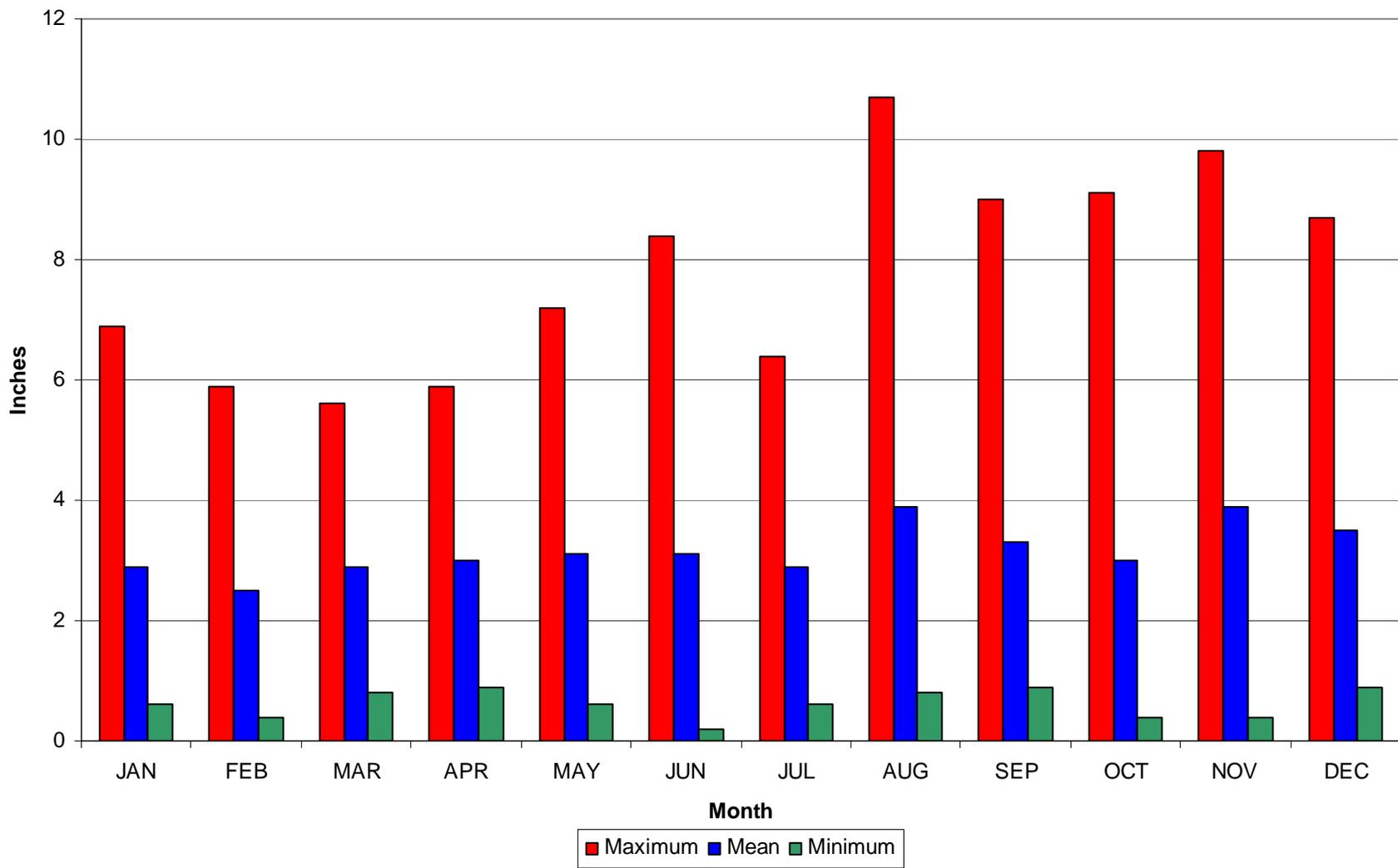
Maximum, Minimum and Mean Monthly Temperatures at Niagara Falls international Airport
1973-1995



Tetra Tech

1634 Eesport Plaza Drive
Cattaraugus, Illinois 62254
Phone: (618)343-2300
Fax: (618)345-1281

PROJECT NO. 15892	FIGURE #: 2-3
SCALE: Not to Scale	DATE: 11/13/2006
DRAWN BY: DWC	CHECKED BY: TL



Period of Record 1973-1995, Source: Air Force Combat Climatology Center

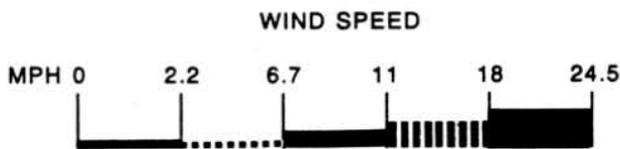
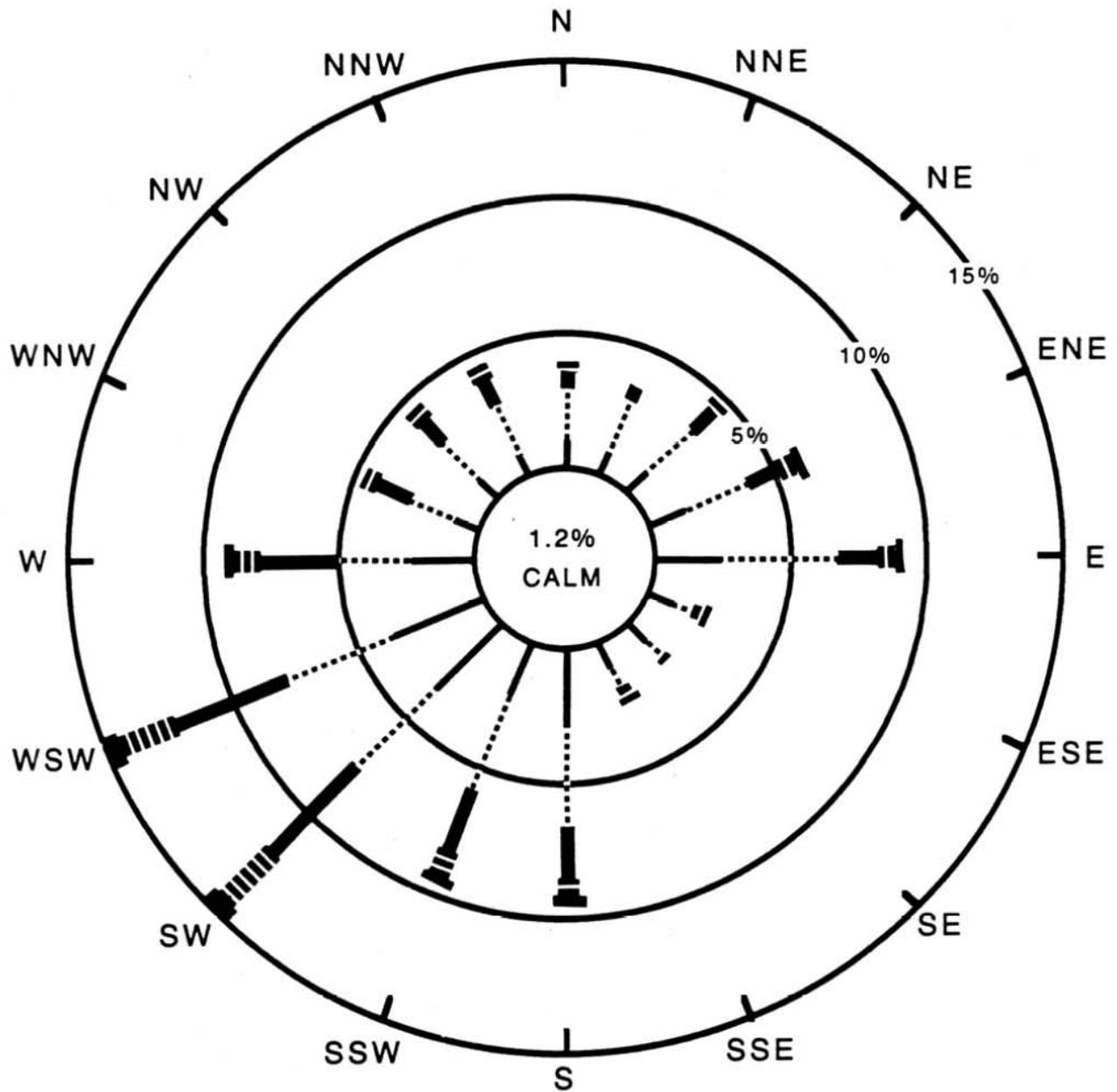
Maximum, Minimum and Mean Monthly Precipitation at Niagara Falls International Airport
1973-1995



Tetra Tech

1634 Eesport Plaza Drive
Catharine, Illinois 62234
Phone: (618)343-2300
Fax: (618)345-1281

PROJECT NO. 15892	FIGURE #: 2-4
SCALE: Not to Scale	DATE: 11/13/2006
DRAWN BY: DWC	CHECKED BY: TL



BASED ON DATA FROM
ON-SITE METEOROLOGICAL
STATION DURING 1985

Annual Wind Rose for the NFSS



Tetra Tech

1634 Eeroport Plaza Drive
Cottleville, Illinois 62234
Phone: (618)343-2300
Fax: (618)345-1281

PROJECT NO. 15892

FIGURE #: 2-5

SCALE: NA

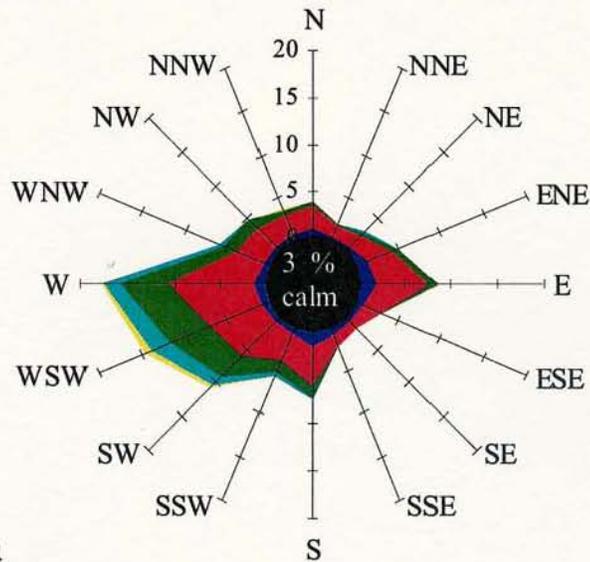
DATE: 11/13/2006

DRAWN BY: DWC

CHECKED BY: TL

Wind Summary - December, January, and February

Labels of Percent Frequency on North Axis

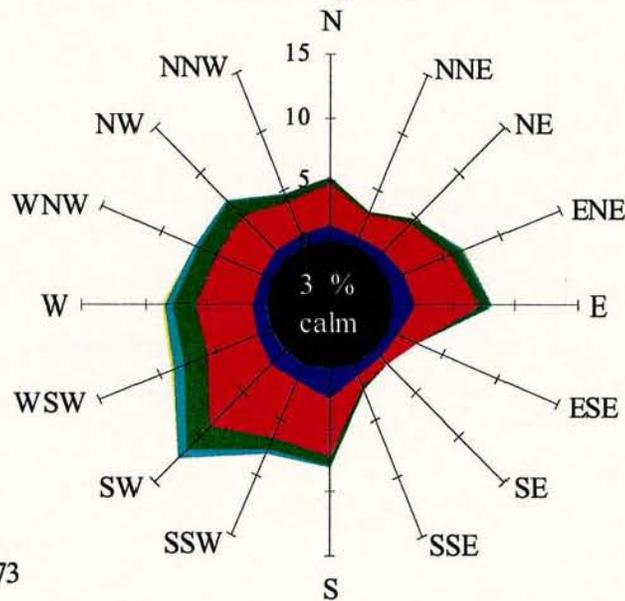


of Observations: 61064

■ >34 Knots
 ■ 25-34 Knots
 ■ 15-24 Knots
 ■ 6-14 Knots
 ■ 1-5 Knots
 ■ Calm

Wind Summary - March, April, and May

Labels of Percent Frequency on North Axis



of Observations: 61573

■ >34 Knots
 ■ 25-34 Knots
 ■ 15-24 Knots
 ■ 6-14 Knots
 ■ 1-5 Knots
 ■ calm

December through May Wind Summary at NFSS



Tetra Tech

1634 Eeroport Plaza Drive
Cottleville, Illinois 62234
Phone: (618)343-2300
Fax: (618)345-1281

PROJECT NO. 15892

FIGURE #: 2-6

SCALE: NA

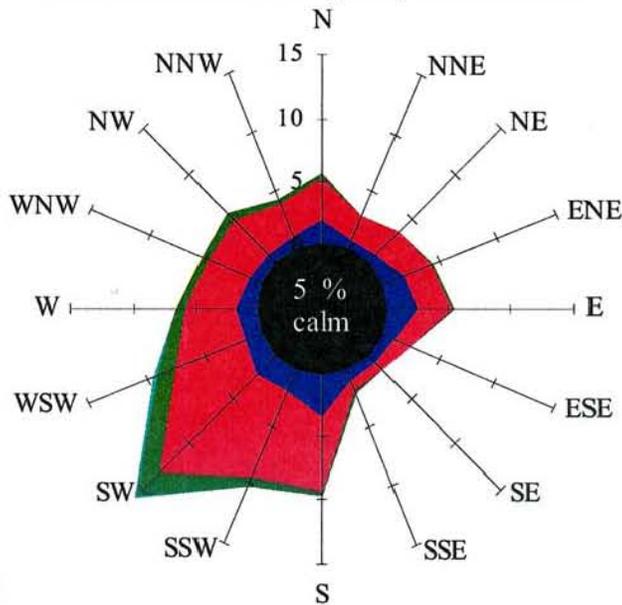
DATE: 11/13/2006

DRAWN BY: DWC

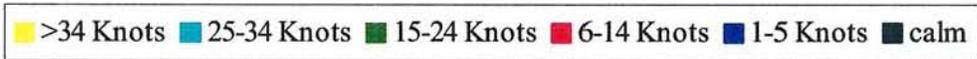
CHECKED BY: TL

Wind Summary - June, July, and August

Labels of Percent Frequency on North Axis

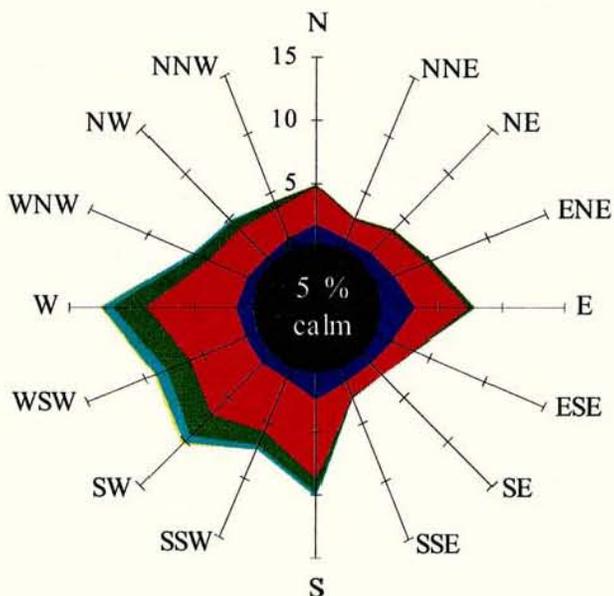


of Observations: 61422

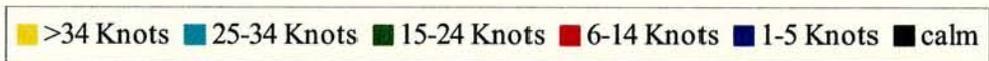


Wind Summary - September, October, and November

Labels of Percent Frequency on North Axis



of Observations: 61206



June through November Wind Summary at NFSS



Tetra Tech

1634 Eeroport Plaza Drive
Cullerville, Illinois 62234
Phone: (618)343-2300
Fax: (618)345-1281

PROJECT NO. 15892

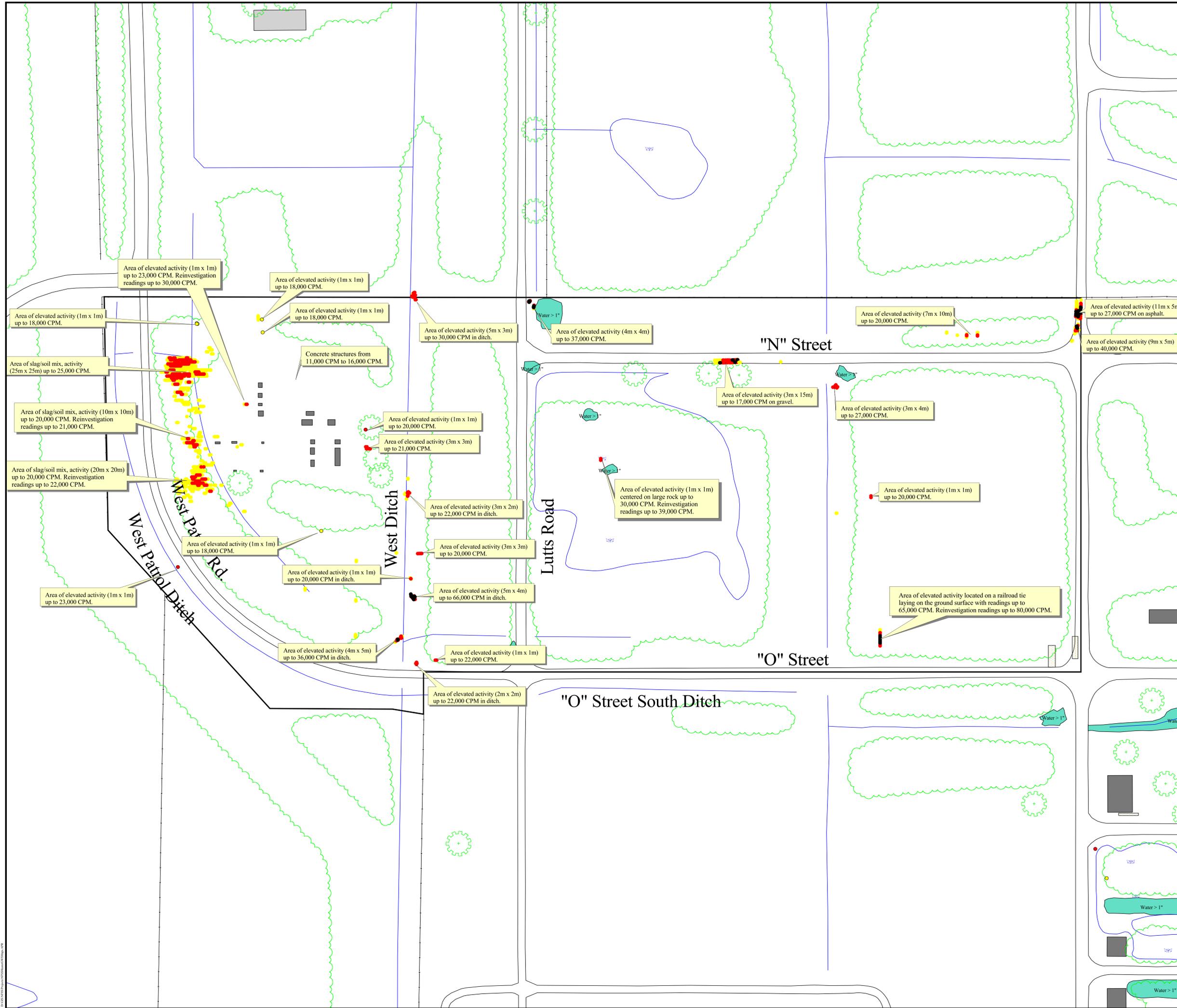
FIGURE #: 2-7

SCALE: NA

DATE: 11/13/2006

DRAWN BY: DWC

CHECKED BY: TL



General Notes:
 1) Outlined circles depict elevated activity identified beyond walkover survey path.

Niagara Falls Storage Site Gamma Walkover Survey

Investigation Location

- Soil
- Soil
- Soil

CPM Values on Asphalt

- 0 - 10500
- 10501 - 15750
- 15751 - 17500
- 17501 - 19500
- 19501 - 100000

CPM Values on Gravel

- 0 - 8000
- 8001 - 12000
- 12001 - 14000
- 14001 - 16000
- 16001 - 1000000

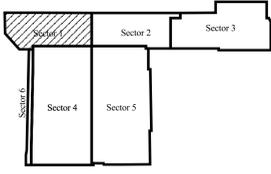
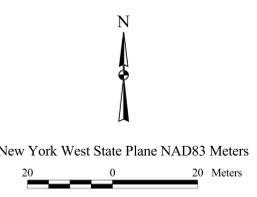
CPM Values on Soil

- 0 - 9000
- 9001 - 13000
- 13001 - 16000
- 16001 - 18000
- 18001 - 30000
- 30001 - 1000000

GWS Data Sector

Surface Features

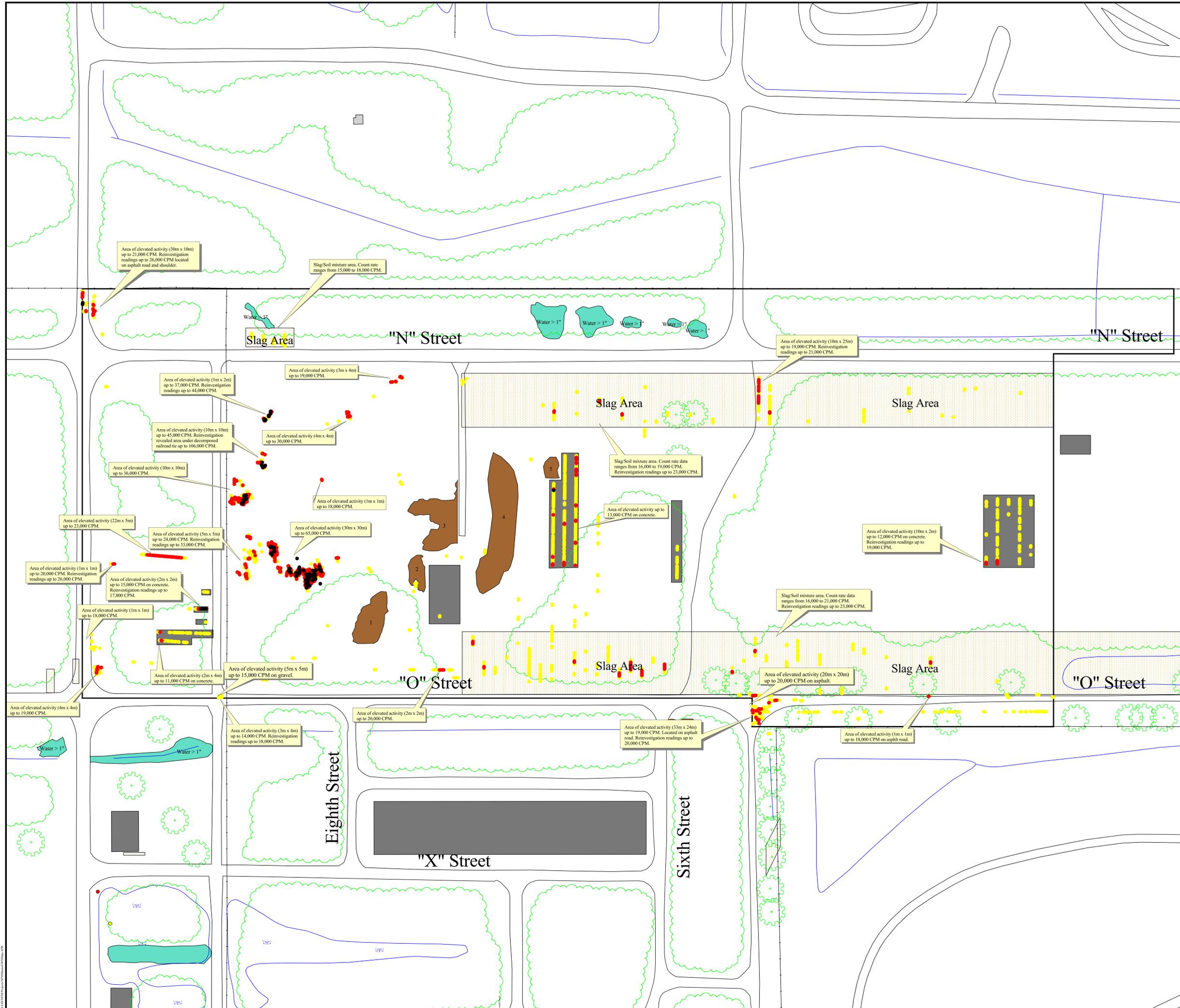
- Roads
- Fence
- Tree Line
- Creek/Ditch
- Building
- Concrete Pad
- Debris Pile
- Area of Water > 1"
- Area of Slag/Soil



Niagara Falls Storage Site
 Gamma Walkover Survey
 Elevated Areas in Sector 1
 Lewiston, New York
 Source: SAIC 2003

REVISION	DRAWN BY:	CHECKED BY:	DATE
0	S. Kitchings	Doug Haas	10/02/2001
1	DWC	TL	10/30/2005

FIGURE 3-1



- General Notes:
- 1) Debris pile 1: inaccessible due to piles of rebar, concrete, and sharp metal debris.
Debris pile 2: inaccessible due to brush debris mixed with chainlink fencing and concrete piles.
Debris pile 3: inaccessible due to sharp scrap metal concrete pile and old culverts.
Debris pile 4: inaccessible due to concrete piles, asphalt pile and unknown piles of rubble.
Debris pile 5: inaccessible due to concrete piles, asphalt pile and unknown piles of rubble.
 - 2) Natural radioactivity in concrete may be higher than that of reference area concrete.
 - 3) Areas of Slag/Soil use the Soil background.

**Niagara Falls Storage Site
Gamma Walkover Survey**

Investigation Location

- Soil/Slag
- Soil
- Soil

CPM Values on Asphalt

- 0 - 10500
- 10501 - 15750
- 15751 - 17500
- 17501 - 19500
- 19501 - 20864

CPM Values on Concrete

- 0 - 5700
- 5701 - 8500
- 8501 - 10500
- 10501 - 12500
- 12501 - 14262

CPM Values on Gravel

- 0 - 8000
- 8001 - 12000
- 12001 - 14000
- 14001 - 16000
- > 16001

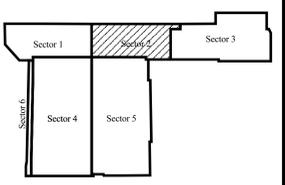
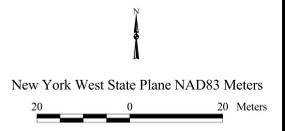
CPM Values on Soil

- 0 - 9000
- 9001 - 13000
- 13001 - 16000
- 16001 - 18000
- 18001 - 30000
- 30001 - 64273

GWS Data Sector

Surface Features

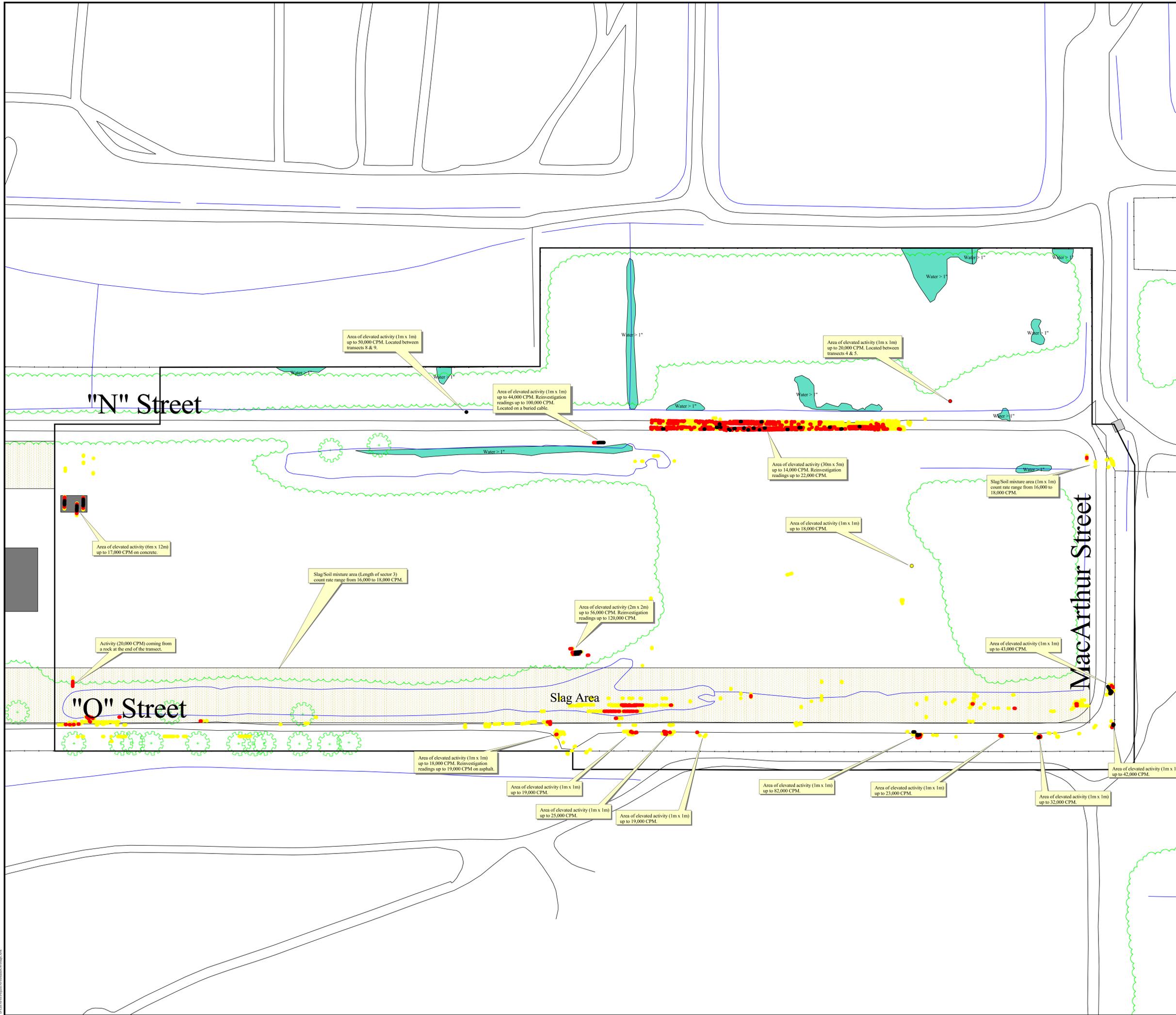
- Roads
- Fence
- Tree Line
- Creek/Ditch
- Building
- Concrete Pad
- Debris Pile
- Area of Water > 1"
- Area of Slag/Soil



Niagara Falls Storage Site
Gamma Walkover Survey
Elevated Areas in Sector 2
Lewiston, New York
Source: SAIC 2003

REVISION	DRAWN BY:	CHECKED BY:	DATE
0	S. Kitchings	Doug Haas	10/02/2001
1	DWC	TL	10/30/2005

Figure 3-2



- General Notes:
- 1) Areas of Slag/Soil use the Soil background.
 - 2) All Survey data within the NFSS fence. Fenceline may contain positional inaccuracies.

**Niagara Falls Storage Site
Gamma Walkover Survey**

Investigation Location

- Soil
- Soil
- Soil

CPM Values on Asphalt

- 0 - 10500
- 10501 - 15750
- 15751 - 17500
- 17501 - 19500
- 19501 - 32405

CPM Values on Concrete

- 0 - 5700
- 5701 - 8500
- 8501 - 10500
- 10501 - 12500
- 12501 - 17065

CPM Values on Gravel

- 0 - 8000
- 8001 - 12000
- 12001 - 14000
- 14001 - 16000
- 16001 - 17710

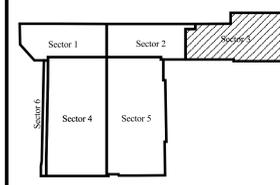
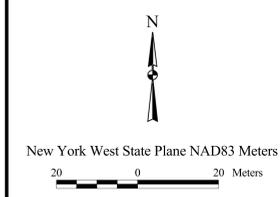
CPM Values on Soil

- 0 - 9000
- 9001 - 13000
- 13001 - 16000
- 16001 - 18000
- 18001 - 30000
- 30001 - 81393

□ GWS Data Sector

Surface Features

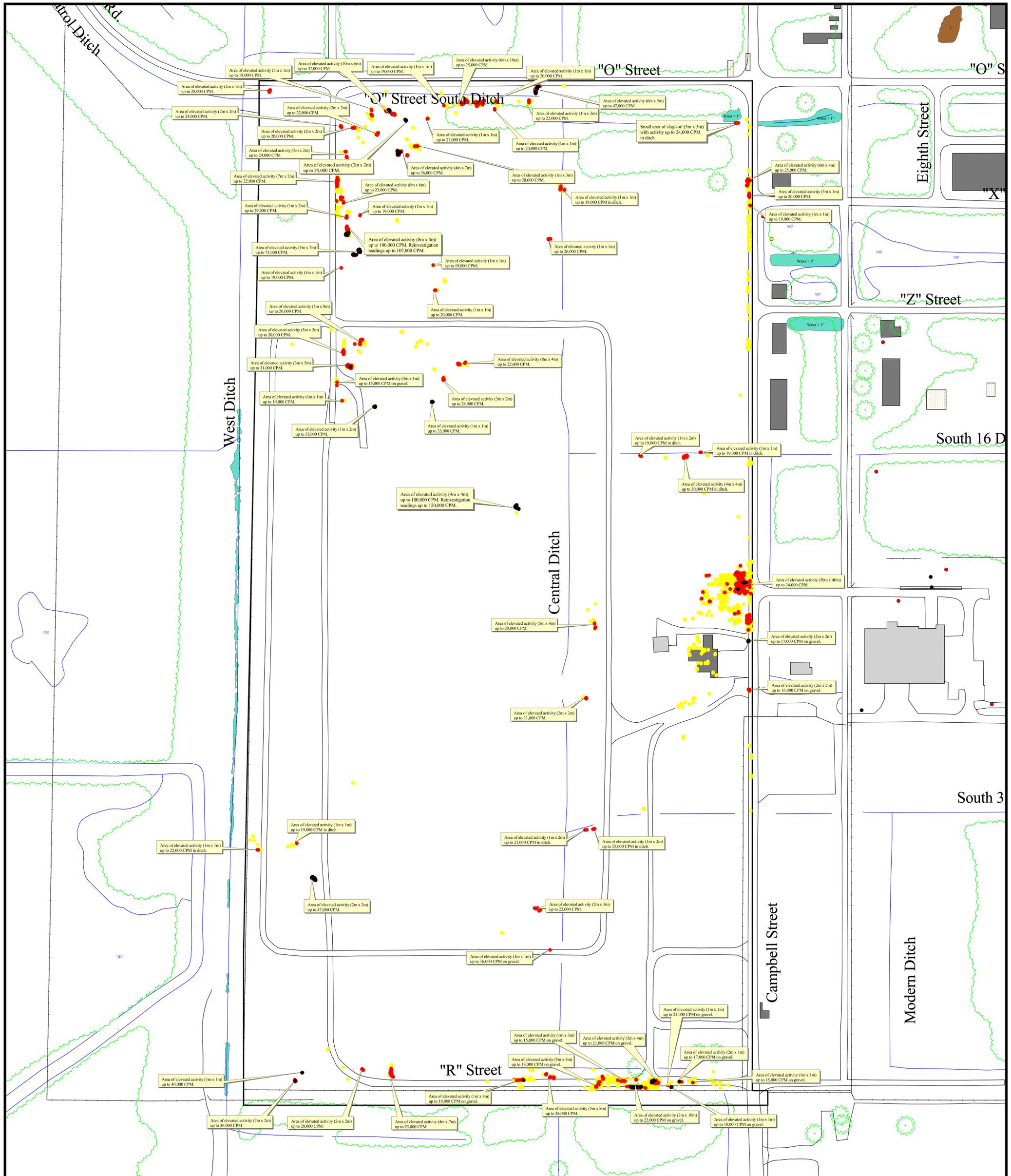
- Roads
- Fence
- Tree Line
- Creek/Ditch
- Building
- Concrete Pad
- Debris Pile
- Area of Water > 1"
- Area of Slag/Soil



Niagara Falls Storage Site
Gamma Walkover Survey
Elevated Areas in Sector 3
Lewiston, New York
Source: SAIG 2003

REVISION	DRAWN BY:	CHECKED BY:	DATE
0	S. Kitchings	Doug Haas	10/12/2001
1	DWC	TL	10/30/2005

Figure 3-3



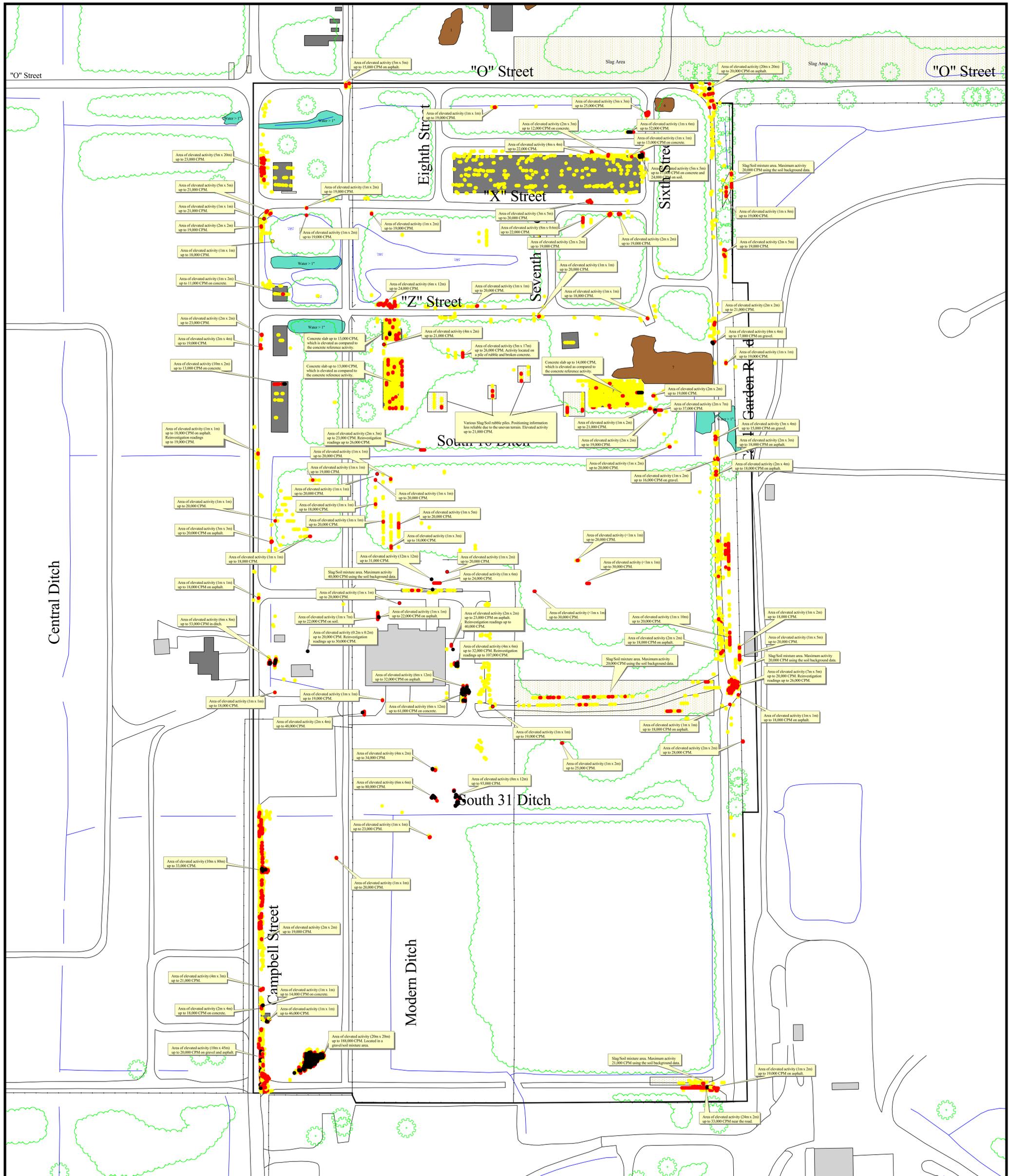
Niagara Falls Storage Site - Gamma Walkover Survey					GWS Data Sector		Surface Features		Building	
Investigation Location	CPM Values on Asphalt	CPM Values on Concrete	CPM Values on Gravel	CPM Values on Soil	0 - 5700	0 - 9000	Roads	Concrete	Concrete Pad	Debris Pile
● Soil	● 0 - 10500	● 0 - 5700	● 0 - 8000	● 0 - 9000	● 5701 - 8500	● 9001 - 13000	Fence	Area of Water > 1"	Area of Slag/Soil	
● Soil	● 10501 - 15750	● 5701 - 8500	● 8001 - 12000	● 9001 - 13000	● 8501 - 10500	● 12001 - 14000	Tree Line			
● Soil	● 15751 - 17500	● 8501 - 10500	● 12001 - 14000	● 13001 - 16000	● 17501 - 19500	● 14001 - 16000	Creek/Ditch			
● Soil	● 17501 - 19500	● 10501 - 12500	● 14001 - 16000	● 16001 - 18000	● > 19501	● 16001 - 30000				
● Soil	● > 19501	● > 12501	● 16001 - 28309	● 18001 - 30000		● 30001 - 99991				

REVISION	DRAWN BY	CHECKED BY	DATE
0	S. Kitchings	Doug Haas	10/02/2001
1	DWC	TL	10/30/2005

New York West State Plane NAD83 Meters

Niagara Falls Storage Site
Gamma Walkover Survey
Elevated Areas in Sector 4
Lewiston, New York

Figure 3-4
Source: SAIC 2003

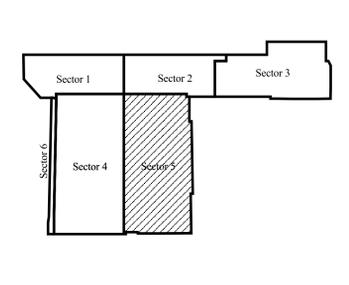


Niagara Falls Storage Site - Gamma Walkover Survey

Investigation Location	CPM Values on Asphalt	CPM Values on Concrete	CPM Values on Gravel	CPM Values on Soil	GWS Data Sector	Building
● Soil	● 0 - 10500	● 0 - 5700	● 0 - 8000	● 0 - 9000	▭ Surface Features	▭ Building
● Soil	● 10501 - 15750	● 5701 - 8500	● 8001 - 12000	● 9001 - 13000	▭ Roads	▭ Concrete Pad
● Soil	● 15751 - 17500	● 8501 - 10500	● 12001 - 14000	● 13001 - 16000	▭ Fence	▭ Debris Pile
	● 17501 - 19500	● 10501 - 12500	● 14001 - 16000	● 16001 - 18000	▭ Tree Line	▭ Area of Water > 1"
	● 19501 - 808345	● 12501 - 60624	● 16001 - 187971	● 18001 - 30000	▭ Creek/Ditch	▭ Area of Slag/Soil
			● 30001 - 1000000			

General Notes:
 1) Debris pile 6: inaccessible area due to construction and demolition piles including broken concrete with rebar, asphalt piles, and brush piles.
 Debris pile 7: inaccessible area due to construction and demolition piles including broken concrete with rebar, asphalt piles, and brush piles.

New York West State Plane NAD83 Meters
 0 20 40 Meters



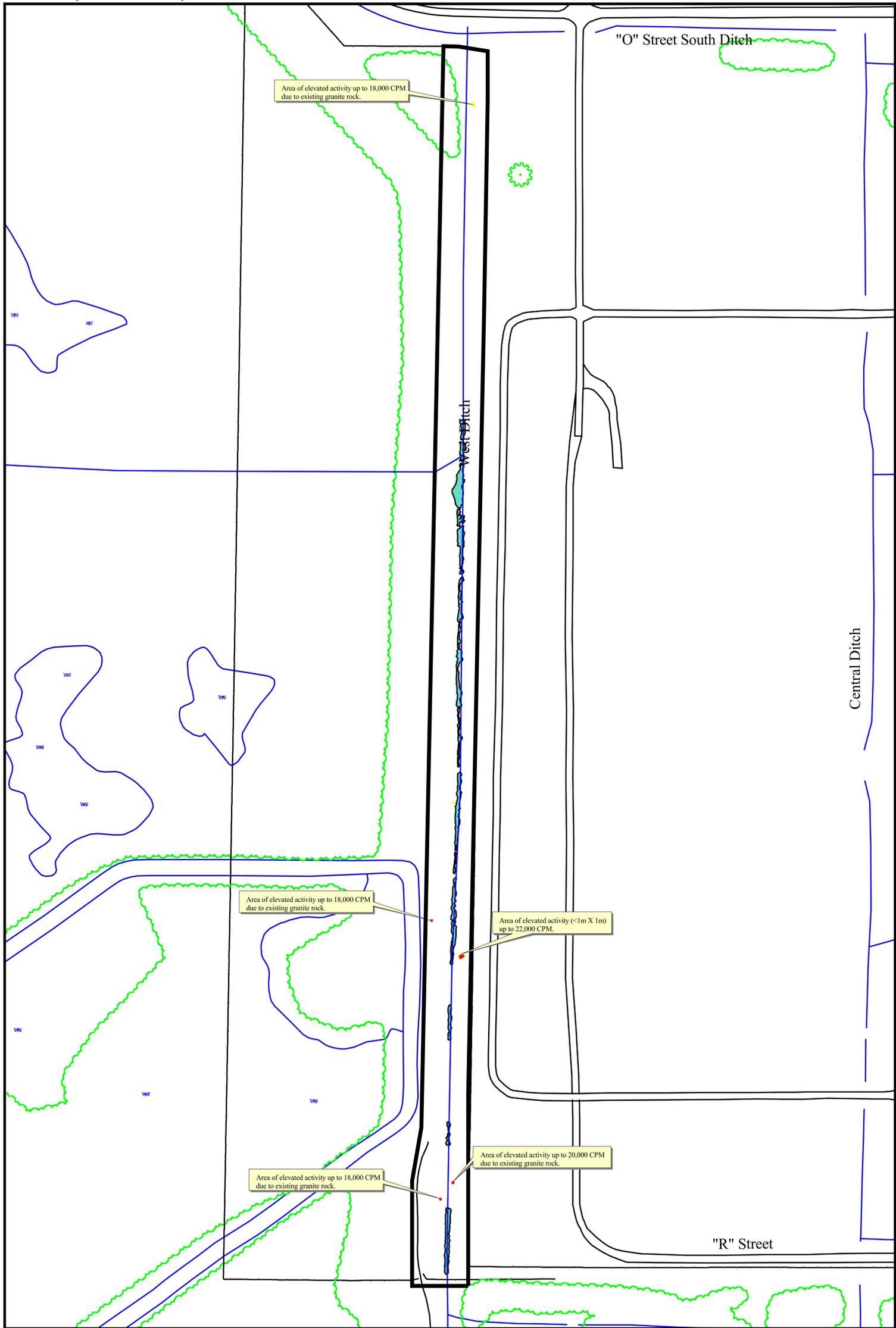
FUSRAP

TETRA TECH, INC.

Niagara Falls Storage Site
 Gamma Walkover Survey
 Elevated Areas in Sector 5
 Lewiston, New York

REVISION	DRAWN BY	CHECKED BY	DATE
0	S. Kitchings	Doug Haas	10/12/2001
1	DWC	TL	10/30/2005

Figure 3-5
 Source: SAIC 2003



Niagara Falls Storage Site - Gamma Walkover Survey in Sector 6

Investigation Location	CPM Values on Soil	Surface Features
• Soil	0 - 9000	GWS Data Sector
• Soil	9001 - 13000	Area of Water > 1"
• Soil	13001 - 16000	Building
• Soil	16001 - 18000	Concrete Pads
• Soil	18001 - 30000	Roads
• Soil	> 30001	Fence
		Tree Lines
		Creek/Ditch

New York West State Plane NAD83 Meters
 20 0 20 40 Meters



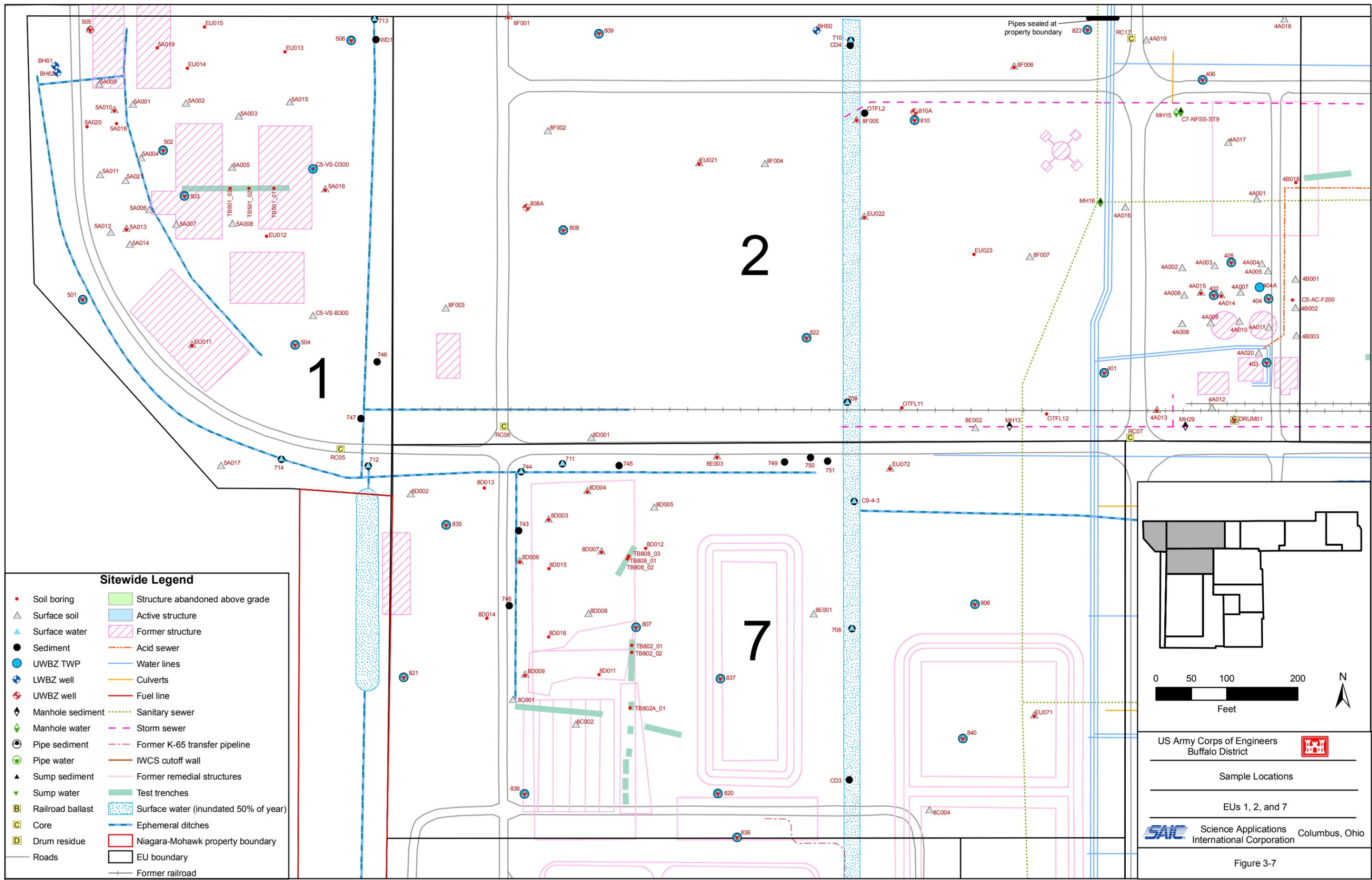
Figure 3-6
 Source: SAIC 2003

FUSRAP

REVISION	DRAWN BY:	CHKD. BY:	DATE:
0	S. Kitchings	Doug Haas	11/01/01
1	DWC	TL	10/30/2005

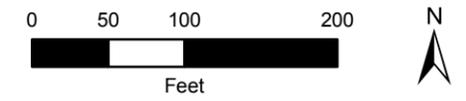
Niagara Falls Storage Site
 Gamma Walkover Survey
 Elevated Areas in Sector 6
 Lewiston, New York

TETRA TECH, INC.



Sitewide Legend

- Soil boring
- △ Surface soil
- ▲ Surface water
- Sediment
- ⊕ UWBZ TWP
- ⊕ LWBZ well
- ⊕ UWBZ well
- ◆ Manhole sediment
- ◆ Manhole water
- ⊕ Pipe sediment
- ⊕ Pipe water
- ▲ Sump sediment
- ▼ Sump water
- ⊕ Railroad ballast
- ⊕ Core
- ⊕ Drum residue
- Roads
- Structure abandoned above grade
- Active structure
- Former structure
- Acid sewer
- Water lines
- Culverts
- Fuel line
- Sanitary sewer
- Storm sewer
- Former K-65 transfer pipeline
- IWCS cutoff wall
- Former remedial structures
- Test trenches
- Surface water (inundated 50% of year)
- Ephemeral ditches
- Niagara-Mohawk property boundary
- EU boundary
- Former railroad



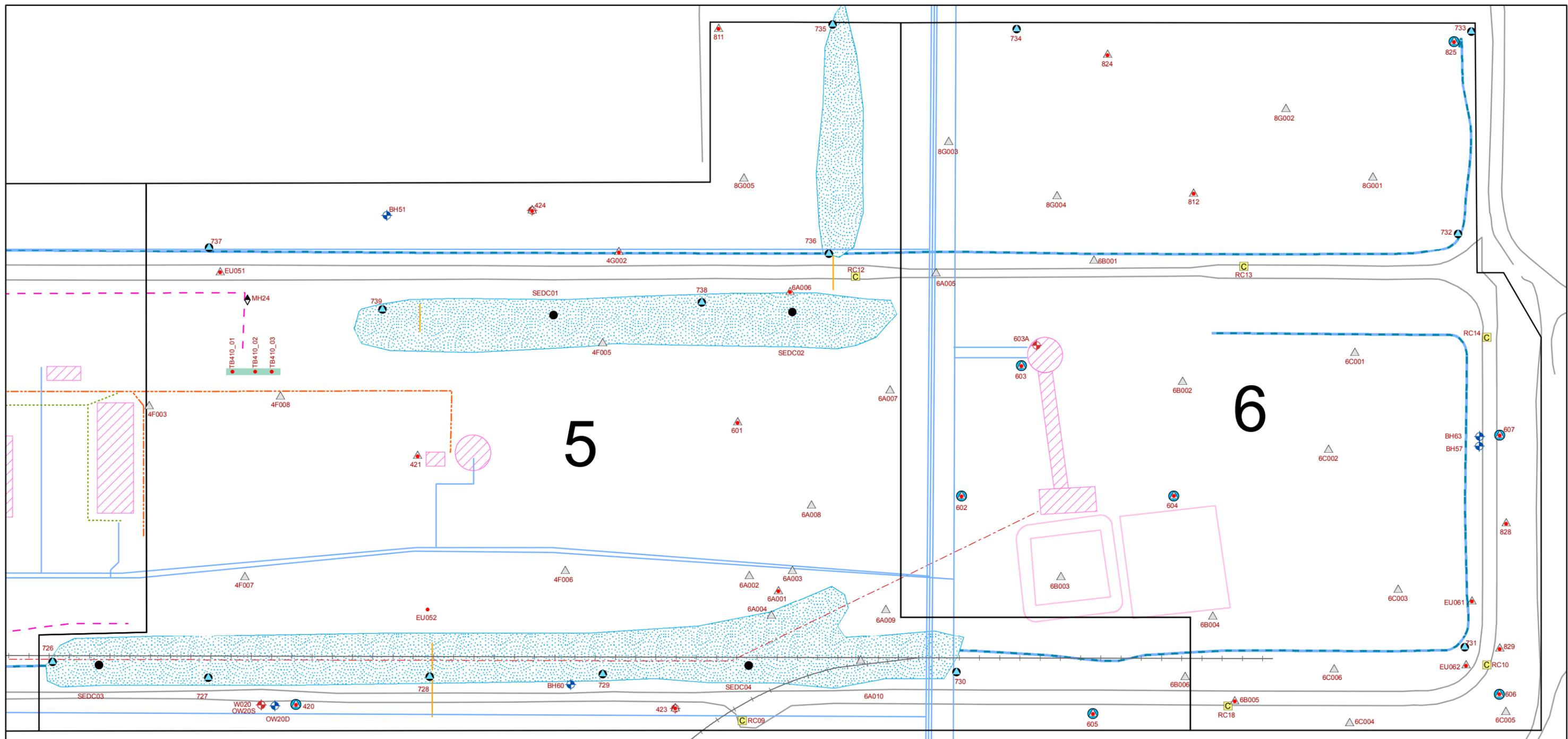
US Army Corps of Engineers
Buffalo District

Sample Locations

EUs 1, 2, and 7

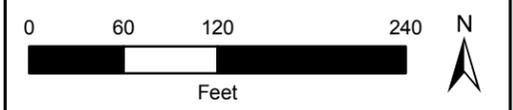
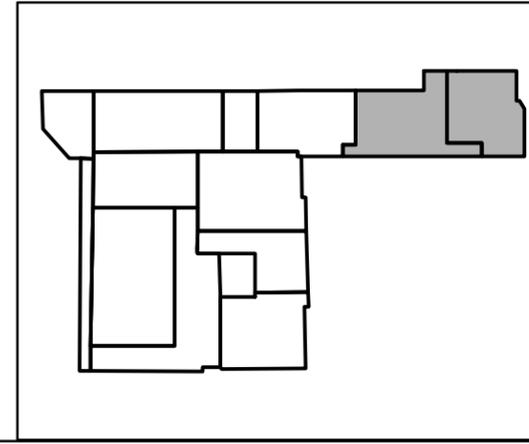
SAIC Science Applications International Corporation
Columbus, Ohio

Figure 3-7



Sitewide Legend

- Soil boring
- △ Surface soil
- ▲ Surface water
- Sediment
- UWBZ TWP
- ⊕ LWBZ well
- ⊕ UWBZ well
- ⬥ Manhole sediment
- ◆ Manhole water
- ⊕ Pipe sediment
- ⊕ Pipe water
- ▲ Sump sediment
- ▼ Sump water
- Railroad ballast
- Core
- Drum residue
- Acid sewer
- Water lines
- Culverts
- Fuel line
- Sanitary sewer
- Storm sewer
- Surface water (inundated 50% of year)
- Ephemeral ditches
- Test trenches
- Structure abandoned above grade
- Active structure
- ▨ Former structure
- Former K-65 transfer pipeline
- IWCS cutoff wall
- ▨ Former remedial structures
- Roads
- Former railroad
- EU boundary



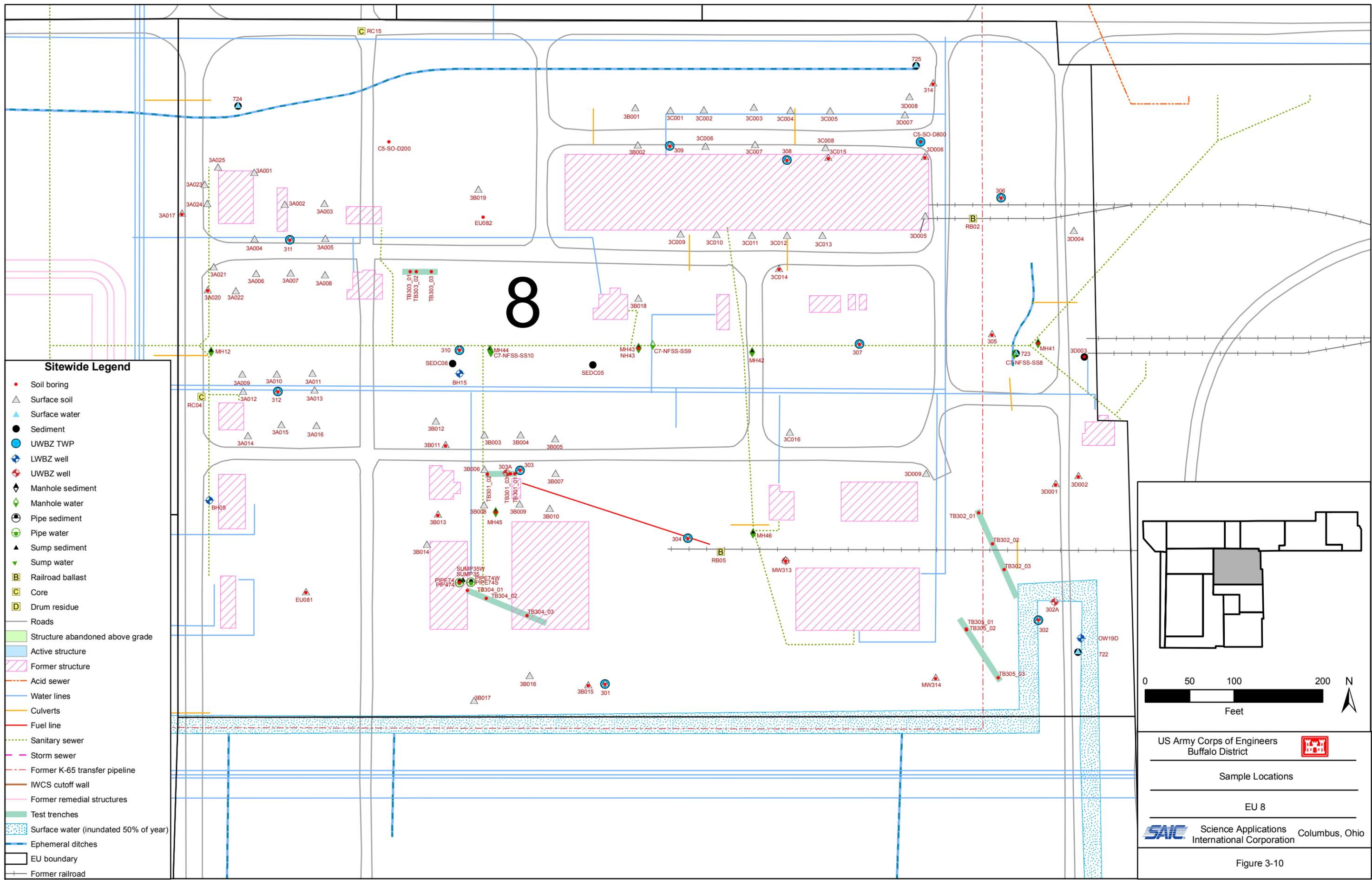
US Army Corps of Engineers
Buffalo District

Sample Locations

EU5 and 6

SAIC Science Applications International Corporation Columbus, Ohio

Figure 3-9



Sitewide Legend

- Soil boring
- △ Surface soil
- ▲ Surface water
- Sediment
- UWBZ TWP
- ⊕ LWBZ well
- ⊕ UWBZ well
- ◆ Manhole sediment
- ◆ Manhole water
- ⊖ Pipe sediment
- ⊖ Pipe water
- ▲ Sump sediment
- ▼ Sump water
- Ⓚ Railroad ballast
- Ⓚ Core
- Ⓚ Drum residue
- Roads
- ▭ Structure abandoned above grade
- ▭ Active structure
- ▭ Former structure
- Acid sewer
- Water lines
- Culverts
- Fuel line
- Sanitary sewer
- Storm sewer
- Former K-65 transfer pipeline
- IWCS cutoff wall
- ▭ Former remedial structures
- Test trenches
- ▭ Surface water (inundated 50% of year)
- Ephemeral ditches
- EU boundary
- Former railroad



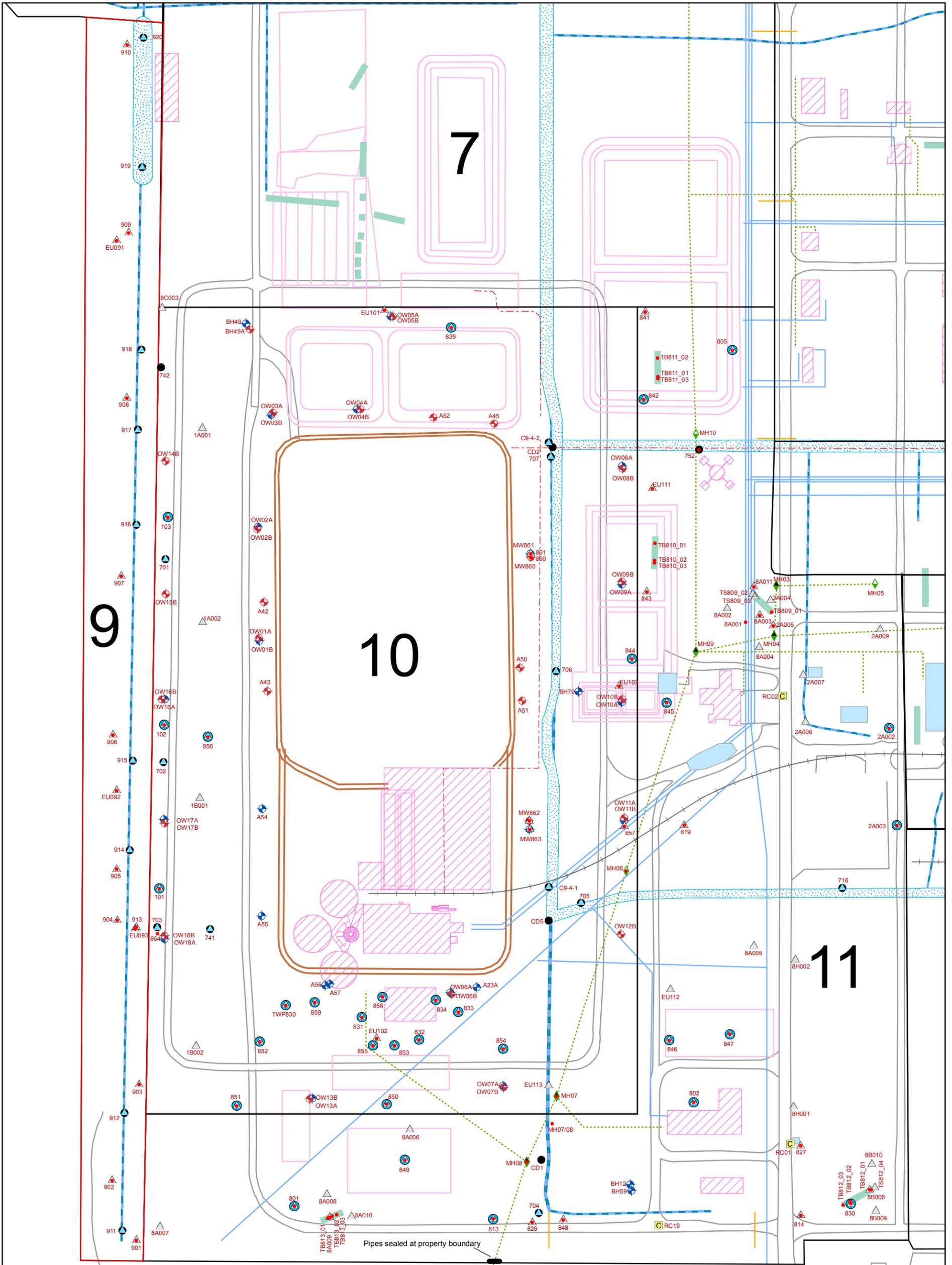
US Army Corps of Engineers
Buffalo District

Sample Locations

EU 8

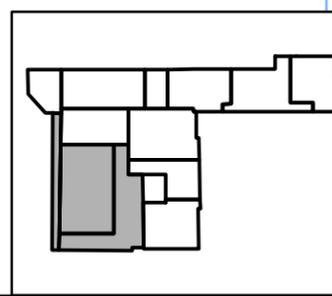
SAIC Science Applications International Corporation Columbus, Ohio

Figure 3-10



Sitewide Legend

• Soil boring	◆ Manhole water	— Acid sewer	■ Structure abandoned above grade
△ Surface soil	⊙ Pipe sediment	— Water lines	■ Active structure
▲ Surface water	⊙ Pipe water	— Culverts	▨ Former structure
● Sediment	▲ Sump sediment	— Fuel line	- - - Former K-65 transfer pipeline
● UWBZ TWP	▼ Sump water	— Sanitary sewer	— IWCS cutoff wall
◆ LWBZ well	■ Railroad ballast	— Storm sewer	— Former remedial structures
◆ UWBZ well	■ Core	— Surface water (inundated 50% of year)	— Roads
◆ Manhole sediment	■ Drum residue	— Ephemeral ditches	— Former railroad
		— Test trenches	— Niagara-Mohawk property boundary
			— EU boundary



0 40 80 160
Feet

N

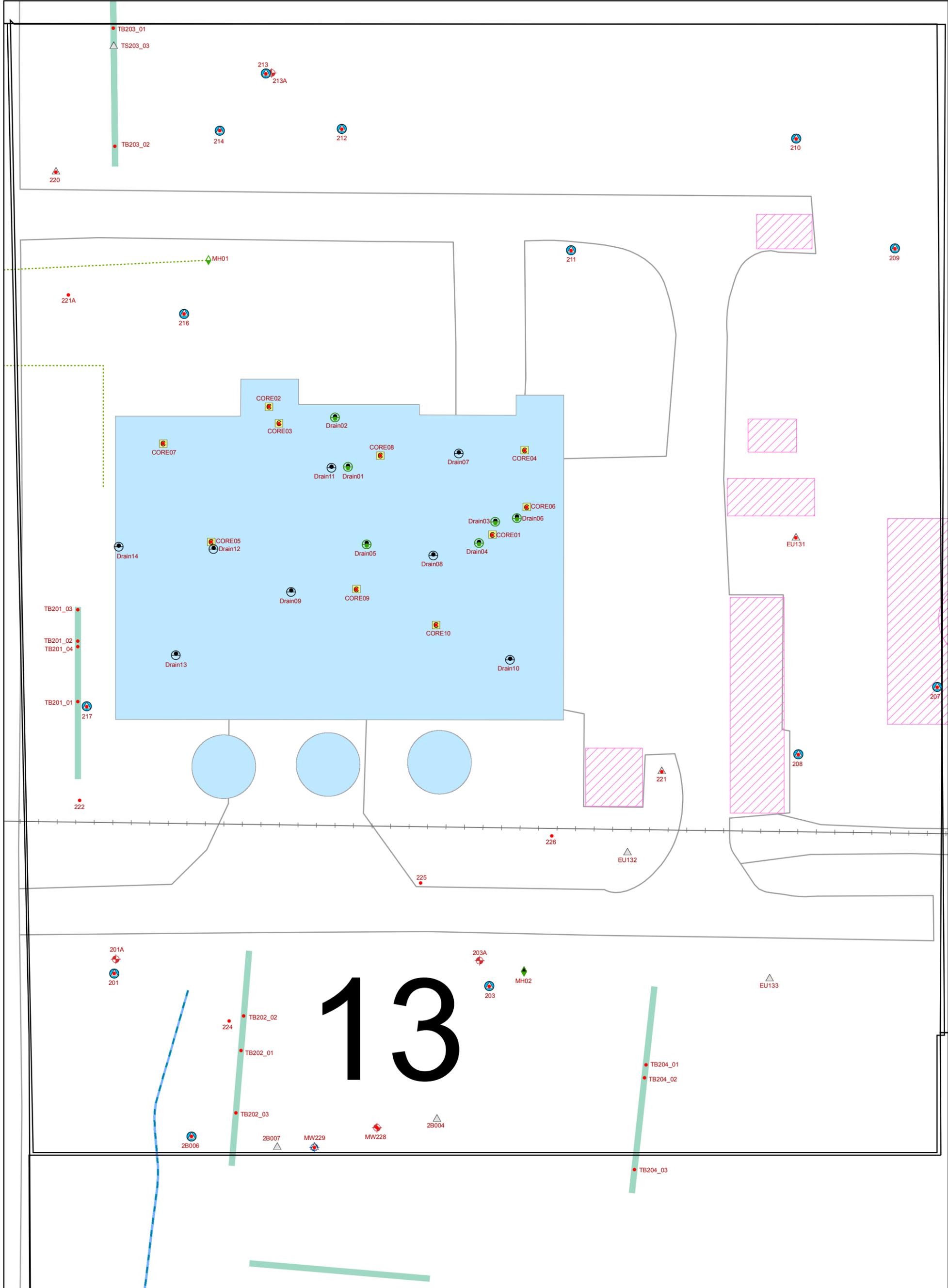
US Army Corps of Engineers
Buffalo District

Sample Locations

EUs 9, 10, and 11

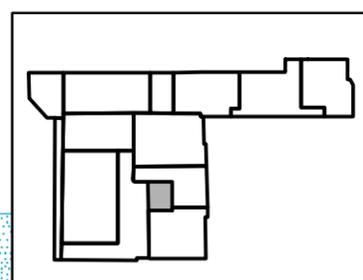
SAIC Science Applications International Corporation Columbus, Ohio

Figure 3-11



Sitewide Legend

- | | | | |
|--------------------|--------------------|-----------------------------------------|-------------------------------------|
| • Soil boring | ◆ Manhole water | - - - Acid sewer | ■ Structure abandoned above grade |
| △ Surface soil | ⊙ Pipe sediment | — Water lines | ■ Active structure |
| ▲ Surface water | ⊙ Pipe water | — Culverts | ▨ Former structure |
| ● Sediment | ▲ Sump sediment | — Fuel line | - - - Former K-65 transfer pipeline |
| ⊙ UWBZ TWP | ▼ Sump water | - - - Sanitary sewer | — IWCS cutoff wall |
| ⊙ LWBZ well | ■ Railroad ballast | — Storm sewer | ▨ Former remedial structures |
| ⊙ UWBZ well | ■ Core | ■ Surface water (inundated 50% of year) | — Roads |
| ◆ Manhole sediment | ■ Drum residue | — Ephemeral ditches | — Former railroad |
| | | — Test trenches | □ EU boundary |



0 10 20 40 Feet

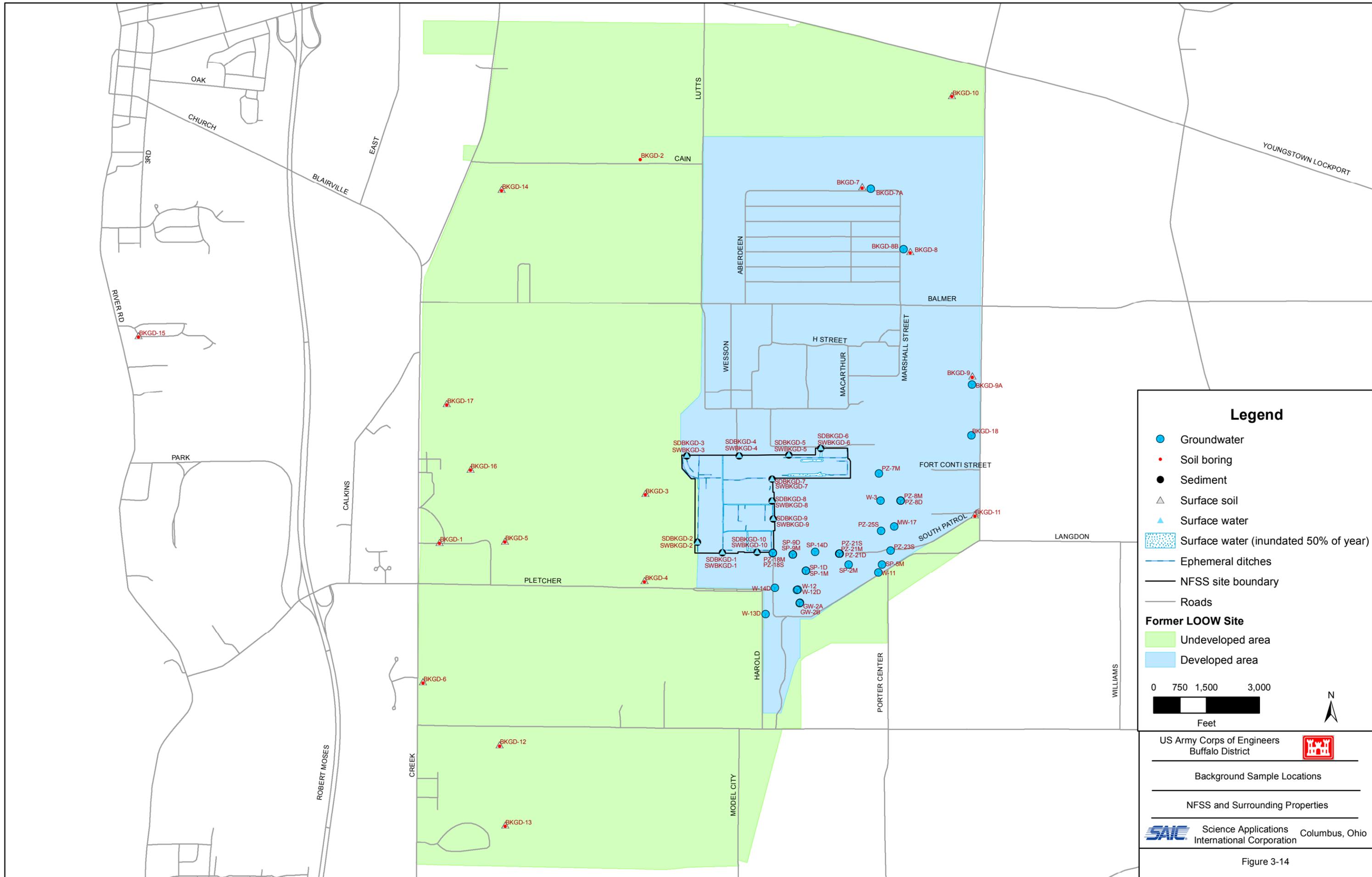
US Army Corps of Engineers
Buffalo District

Sample Locations

EU 13

SAIC Science Applications International Corporation Columbus, Ohio

Figure 3-13



Legend

- Groundwater
- Soil boring
- Sediment
- ▲ Surface soil
- ▲ Surface water
- Surface water (inundated 50% of year)
- Ephemeral ditches
- NFSS site boundary
- Roads

Former LOOW Site

- Undeveloped area
- Developed area

0 750 1,500 3,000

Feet

N

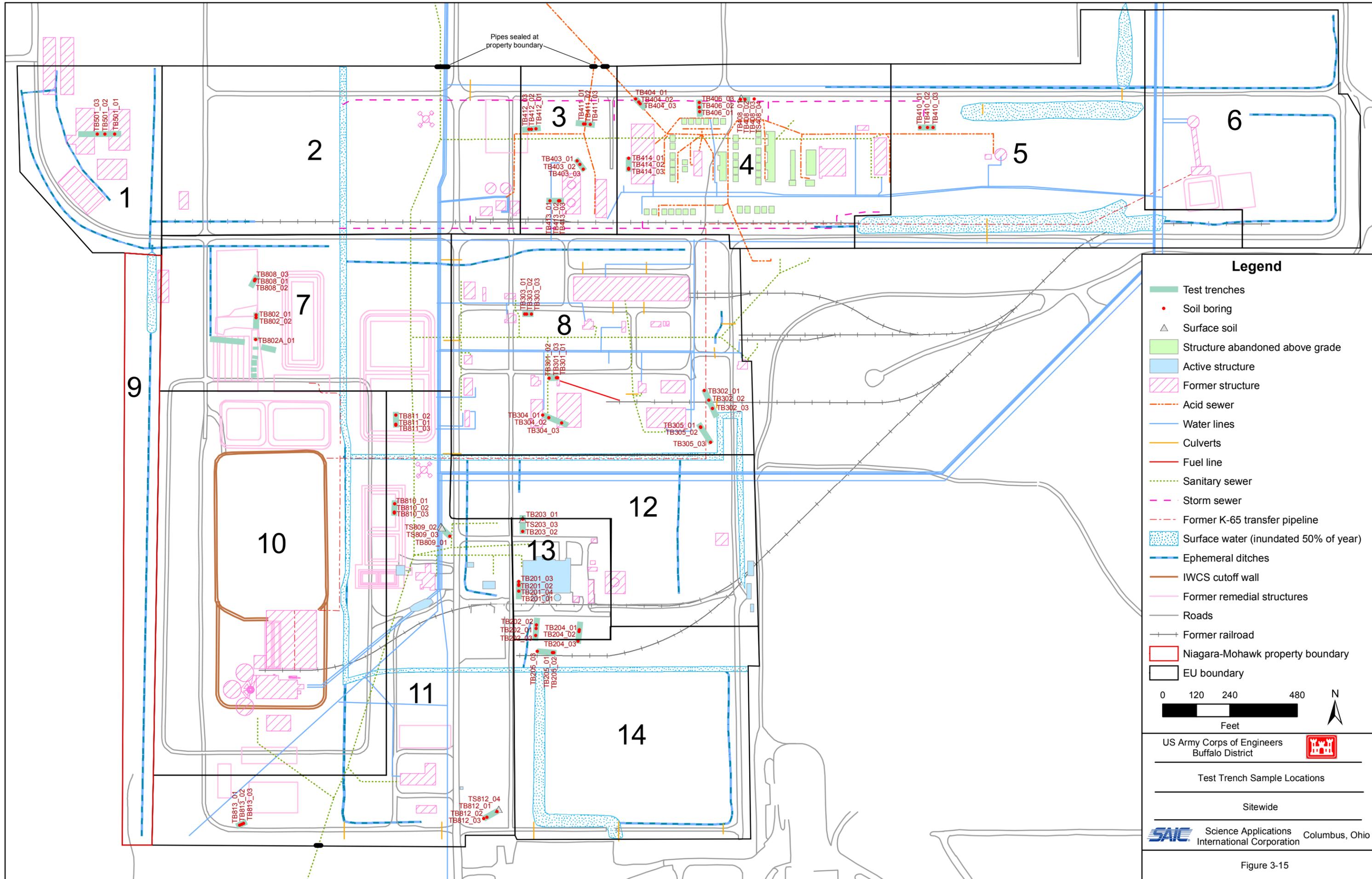
US Army Corps of Engineers
Buffalo District

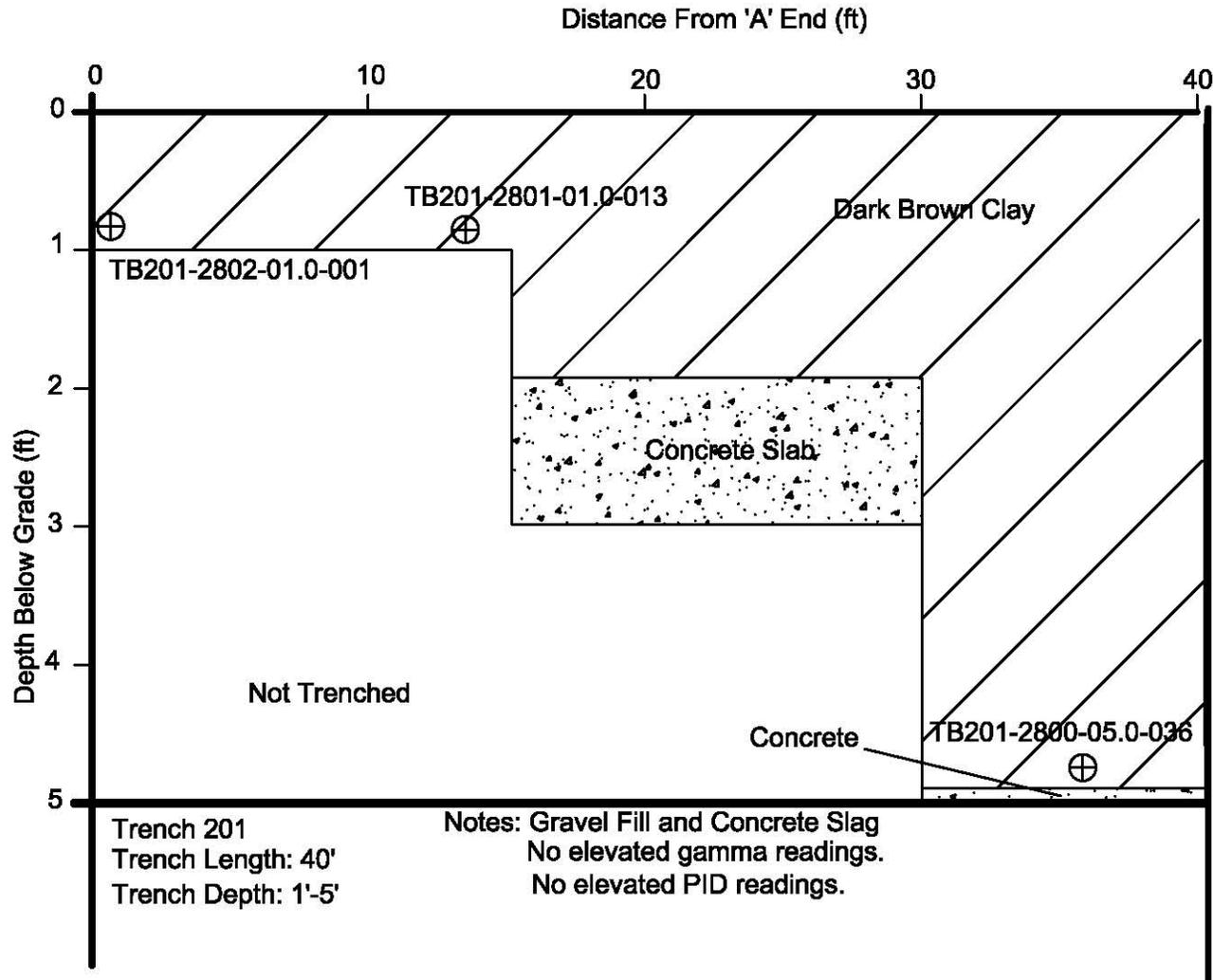
Background Sample Locations

NFSS and Surrounding Properties

Science Applications International Corporation Columbus, Ohio

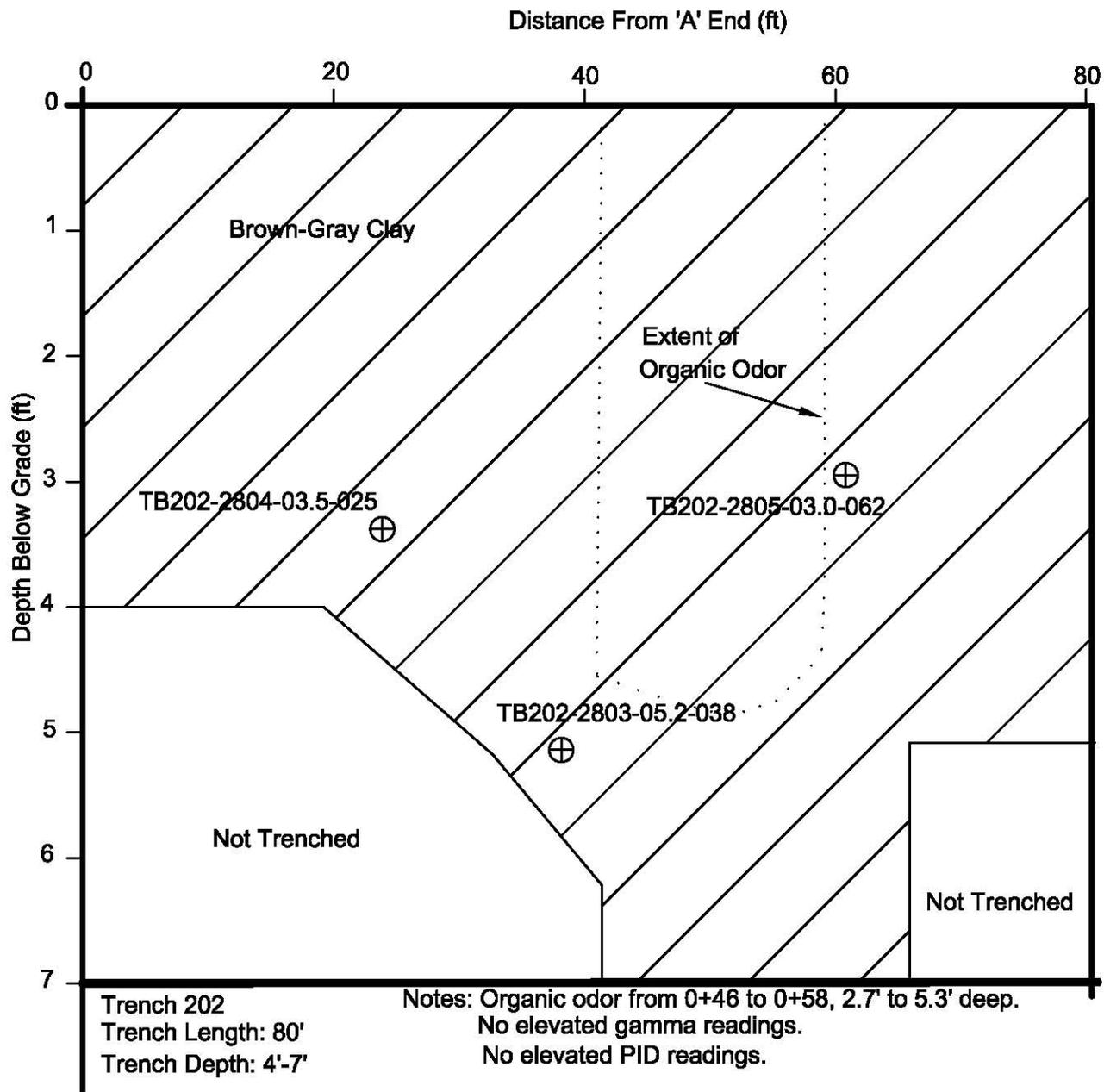
Figure 3-14





TRENCH 201
NIAGARA FALLS STORAGE SITE

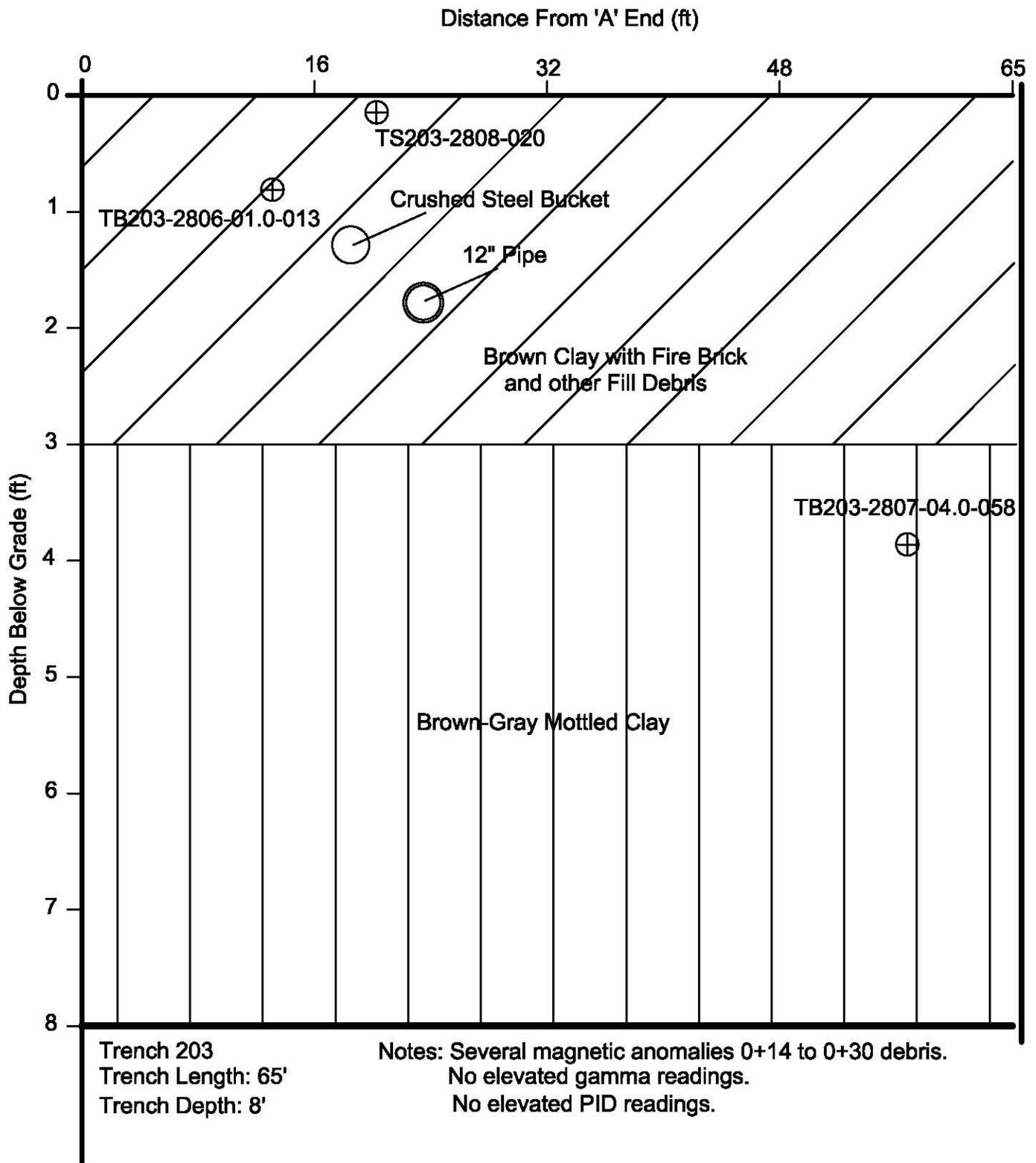
MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-16
SCALE: As Shown	DATE: 11/14/2006
DRAWN BY: DWC	CHECKED BY: MLS



TRENCH 202
NIAGARA FALLS STORAGE SITE

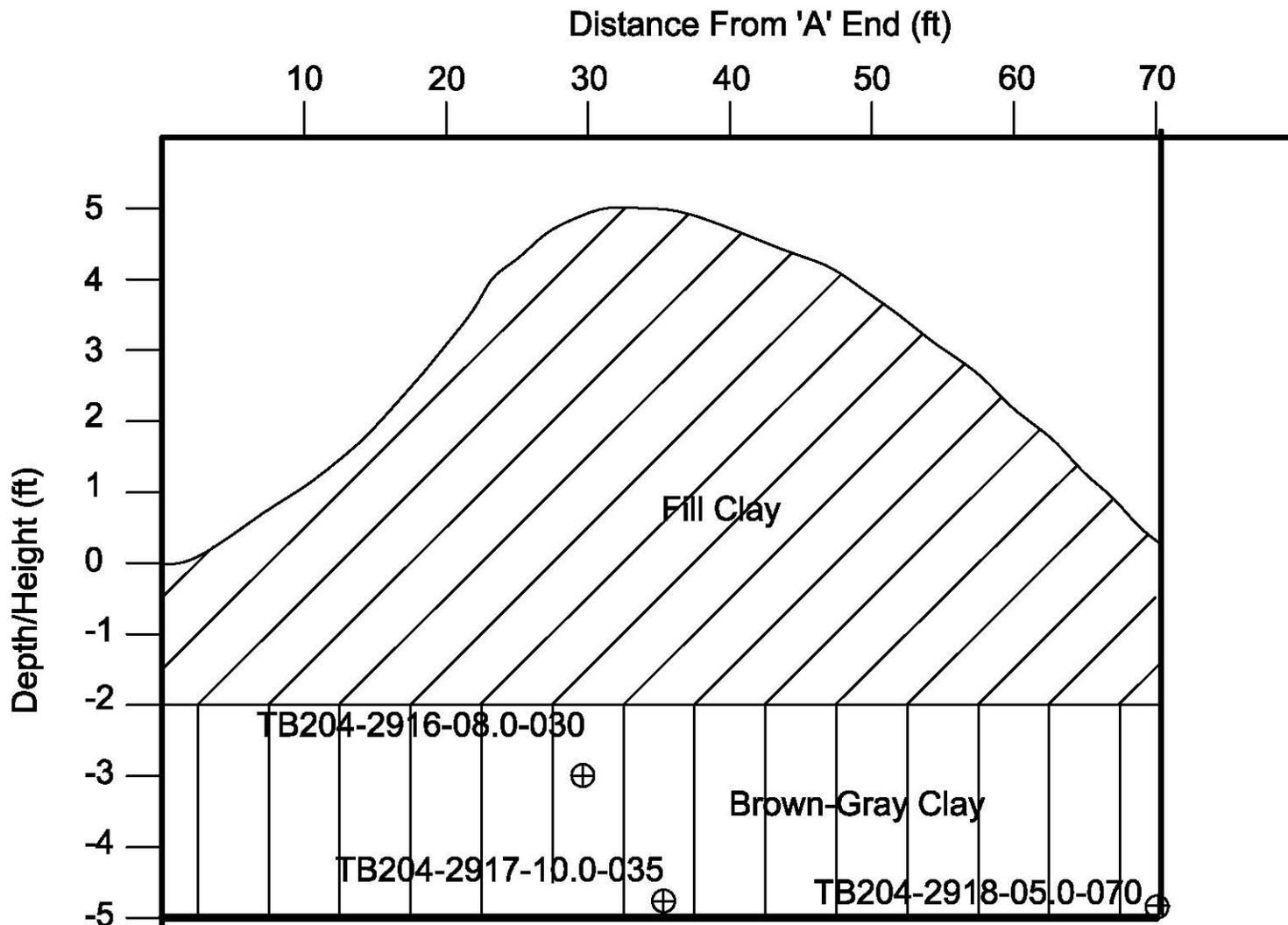
MAXIM TECHNOLOGIES INC.
ST LOUIS, MO.

PROJECT NO. 15892	FIGURE #: 3-17
SCALE: As Shown	DATE: 11/14/2006
DRAWN BY: DWC	CHECKED BY: MLS



TRENCH 203
NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-18
SCALE: As Shown	DATE: 11/14/2006
DRAWN BY: DWC	CHECKED BY:

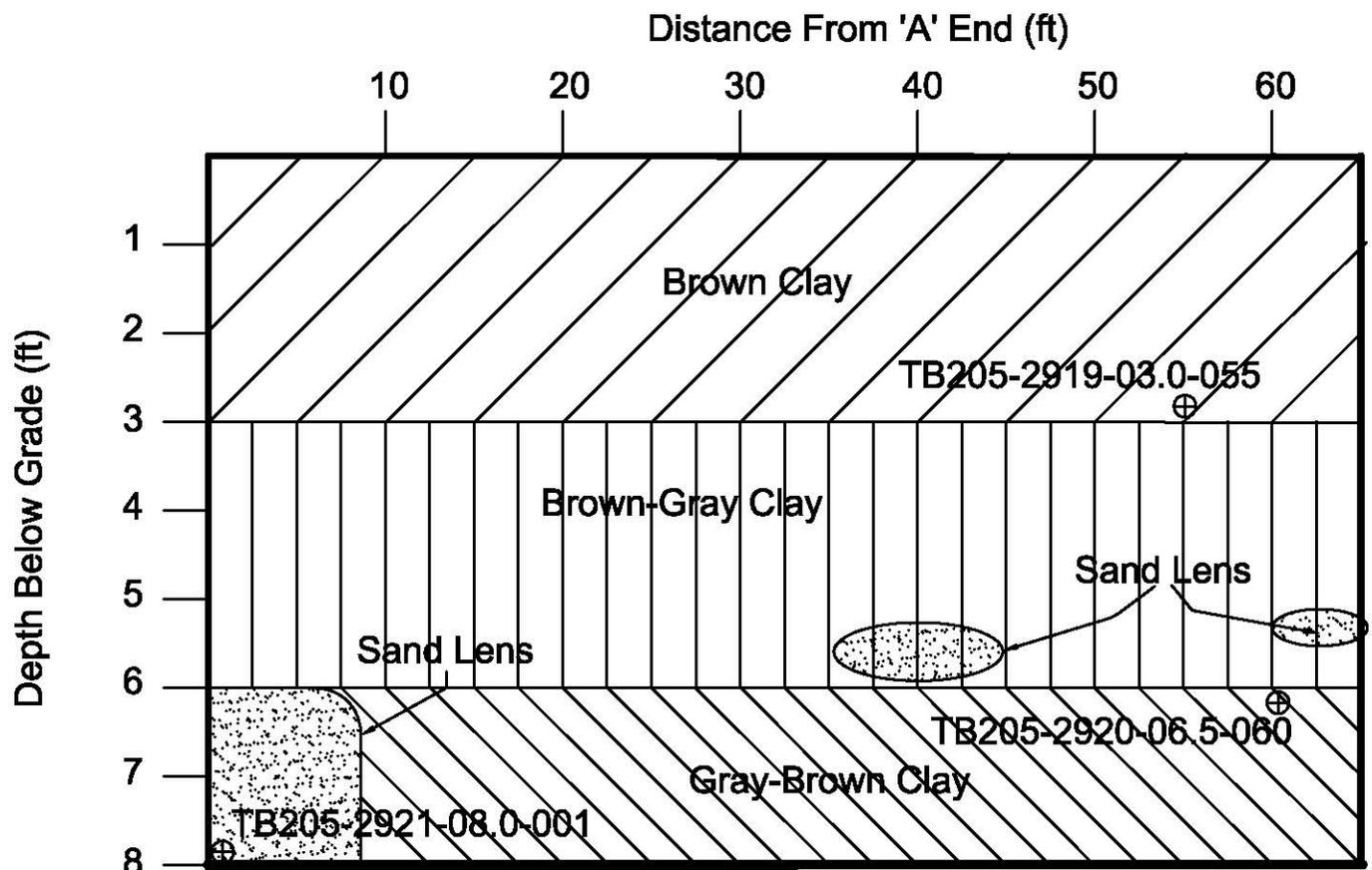


Trench 204
 Trench Length: 70'
 Trench Depth: 10'

Notes: Trench excavated through spoils pile located south of building 401.
 No Magnetic Anomalies Found
 No Gamma Radiation Exceeded Background
 No Elevated PID measurements

TRENCH 204
 NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-19
SCALE: As Shown	DATE: 11/14/2006
DRAWN BY: DWC	CHECKED BY: MLS



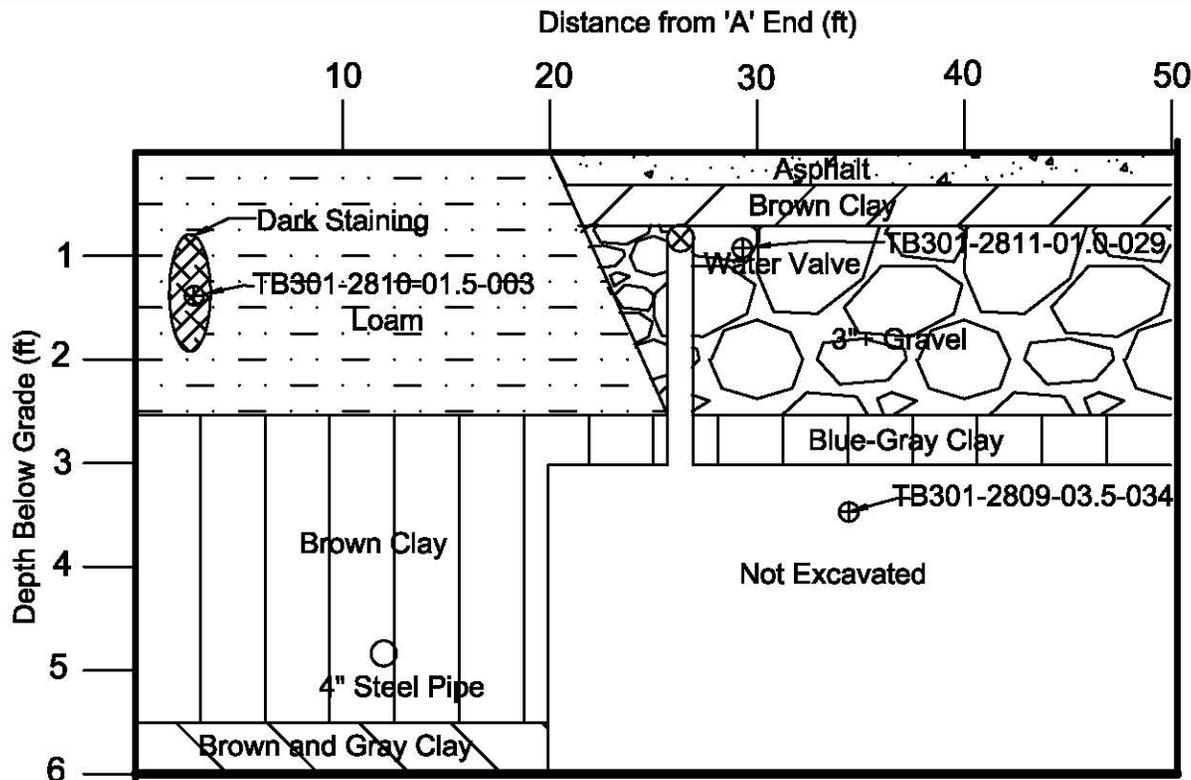
Trench 205
 Trench Length 65'
 Trench Depth 8'

Notes: No Magnetic Anomalies
 No Gamma Radiation Above
 Background

Numerous PID measurements slightly
 elevated above background. Maximum
 PID measurement was 34ppm. Sample
 2920 collected from location of this
 elevated PID measurement.

TRENCH 205
 NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-20
SCALE: As Shown	DATE: 11/14/2006
DRAWN BY: DWC	CHECKED BY: MLS

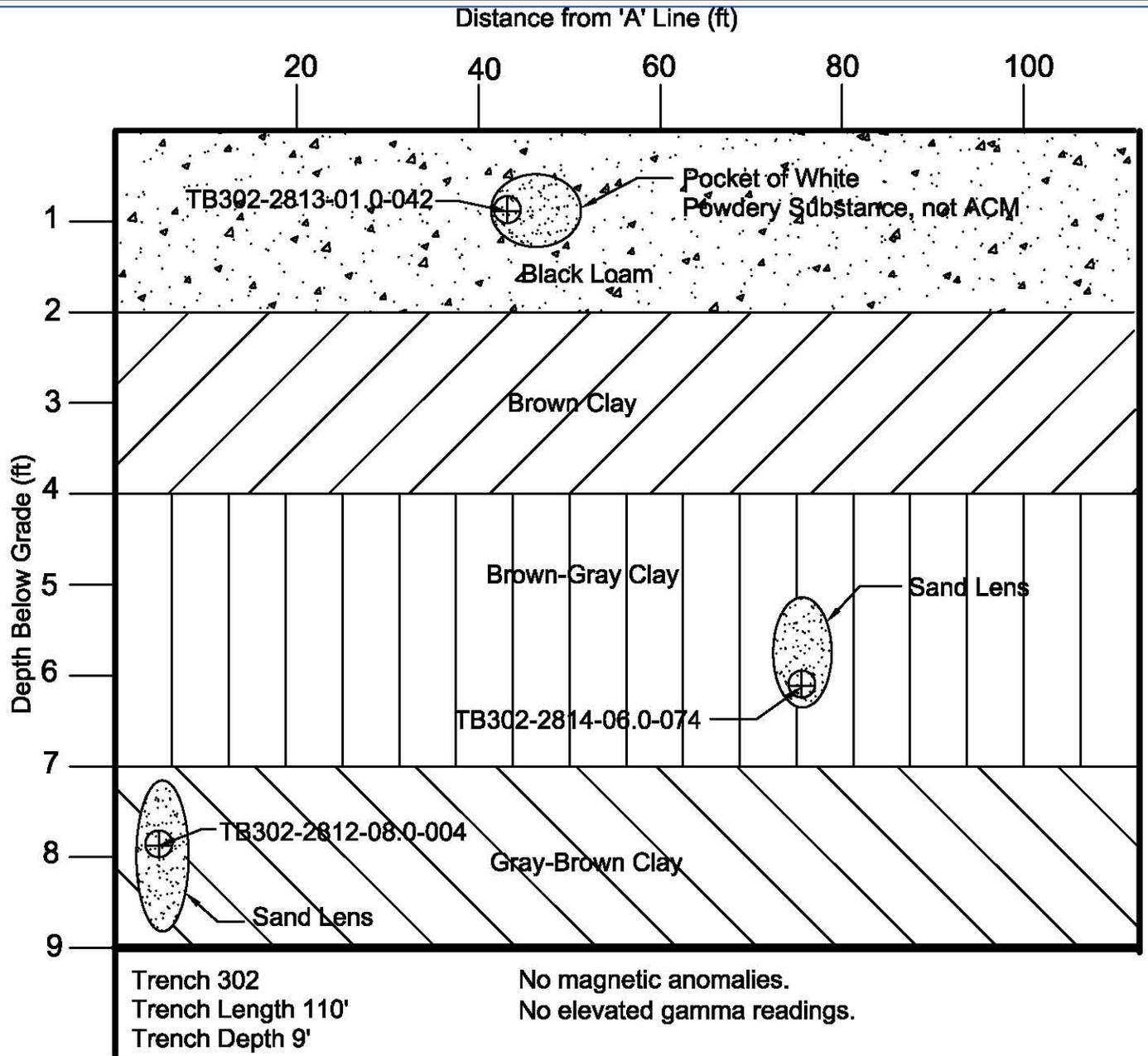


Trench 301
 Trench Length: 50'
 Trench Depth: 7'

Notes: Because of Infiltrating groundwater trench not excavated below 3' BGL between 0+20' and 0+50'
 Trench not excavated below 1' BGL from 0+27' to 0+28' because of water valve.
 Gamma hotspot of 31kcpm detected and sampled at 0+29'
 No elevated PID measurements
 Magnetic anomalies detected between 0+00' and 0+20'.
 Attributed to steel pipe and rebar.

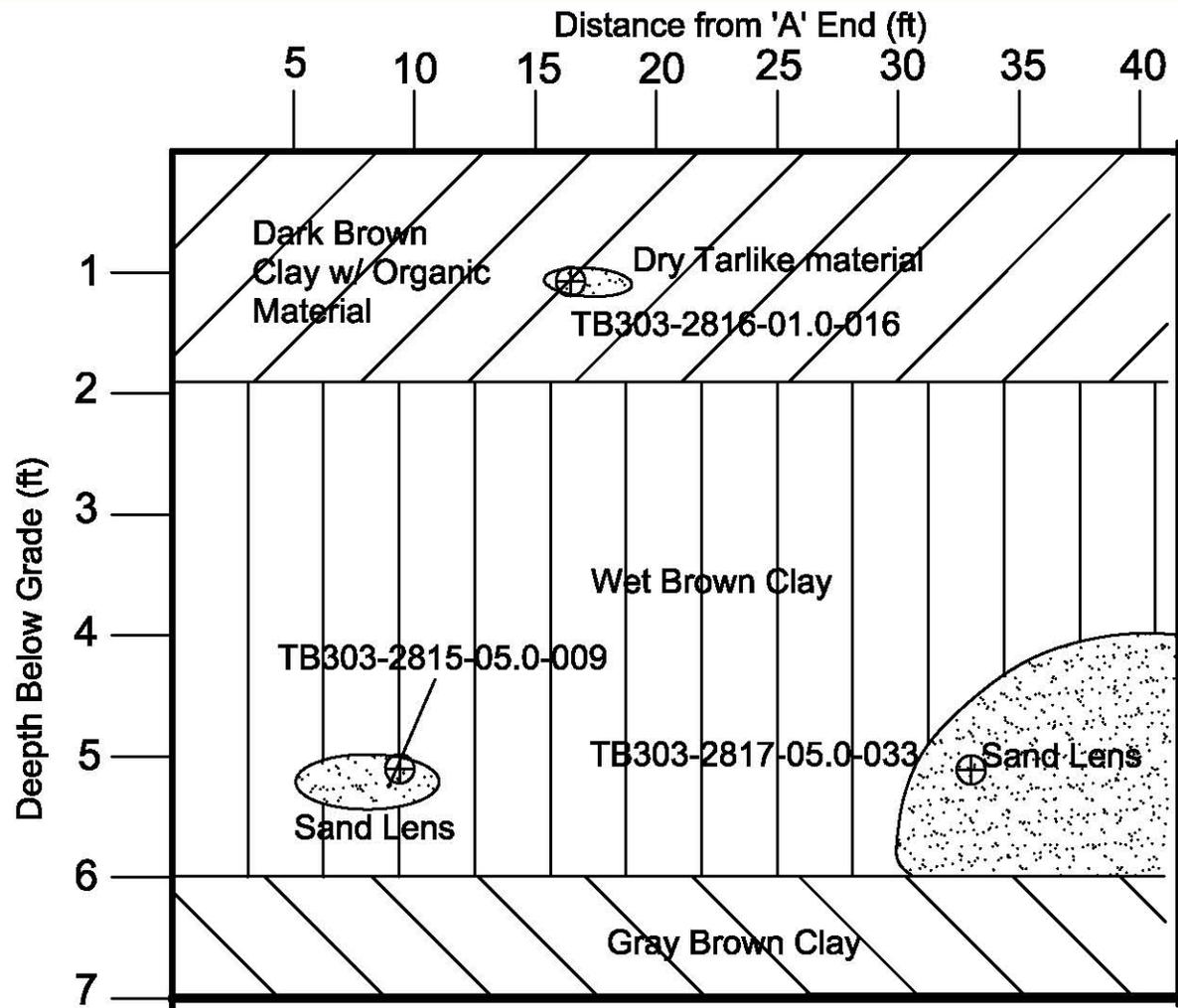
TRENCH 301
 NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-21
SCALE: As Shown	DATE: 11/14/2006
DRAWN BY: DWC	CHECKED BY: MLS



TRENCH 302
NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-22
SCALE: As Shown	DATE: 11/14/2006
DRAWN BY: DWC	CHECKED BY: MLS

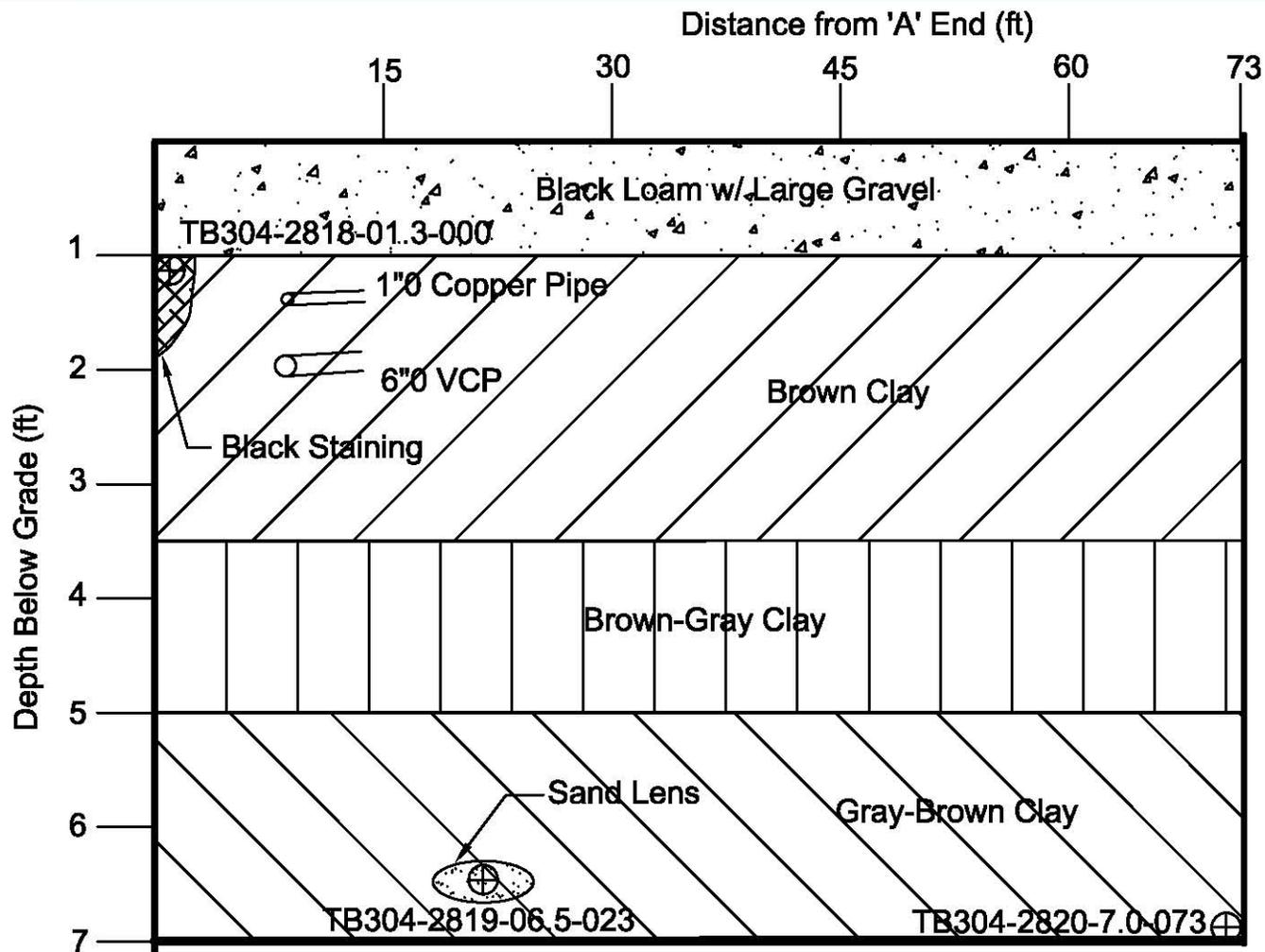


Trench 303
Trench Length: 42'
Trench Depth: 7'

Notes: No Magnetic Anomalies detected
No Gamma Radiation above background
No elevated PID measurements

TRENCH 303
NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-23
SCALE: As Shown	DATE: 11/14/2006
DRAWN BY: DWC	CHECKED BY: MLS

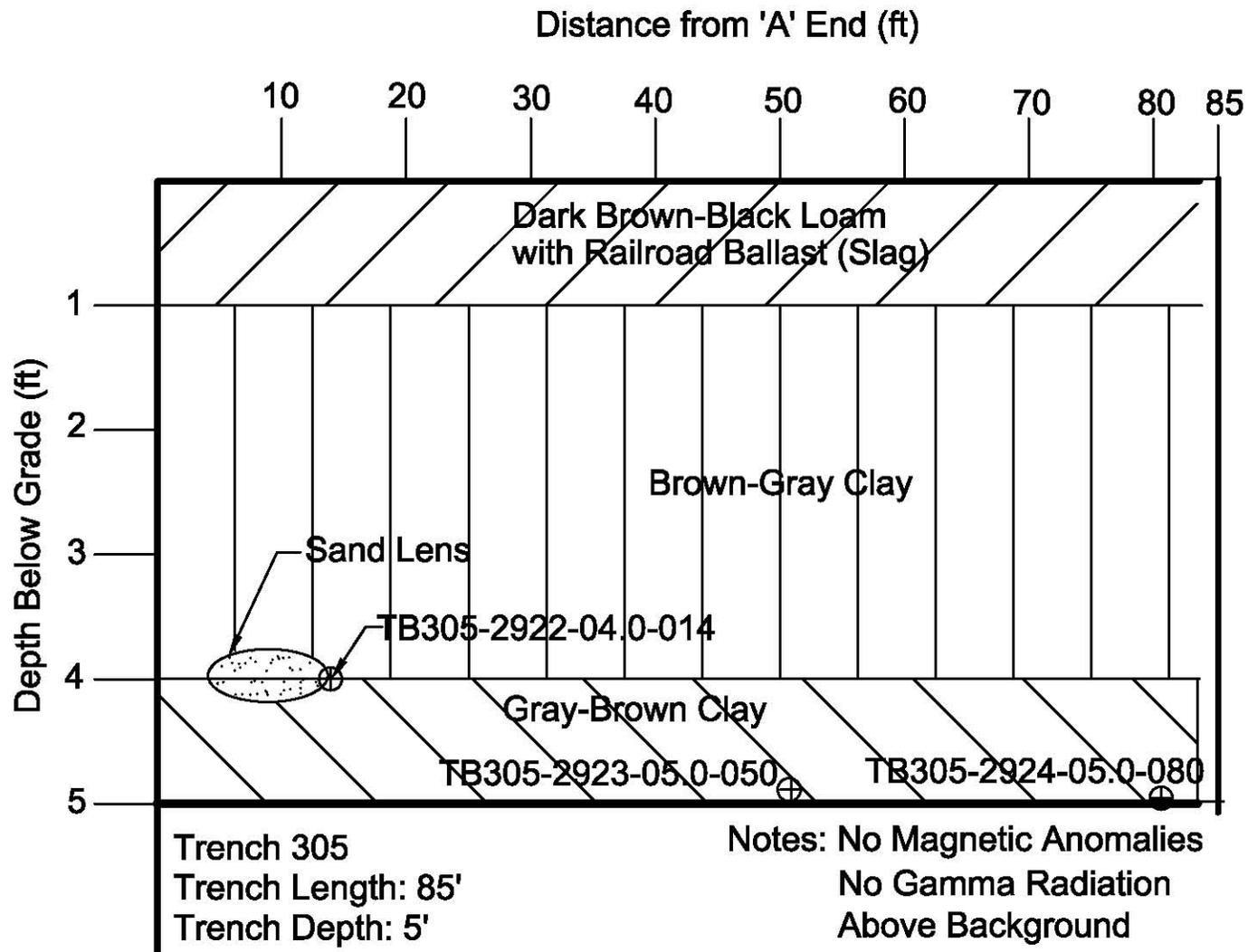


Trench 304
 Trench Length: 73'
 Trench Depth: 7'

Notes: 1"0 Copper Pipe and 6"0 VCP Intersect trench between 0+06 and 0+12'
 No Magnetometer Anomalies
 No Gamma Radiation Above Background
 No Elevated PID Measurements

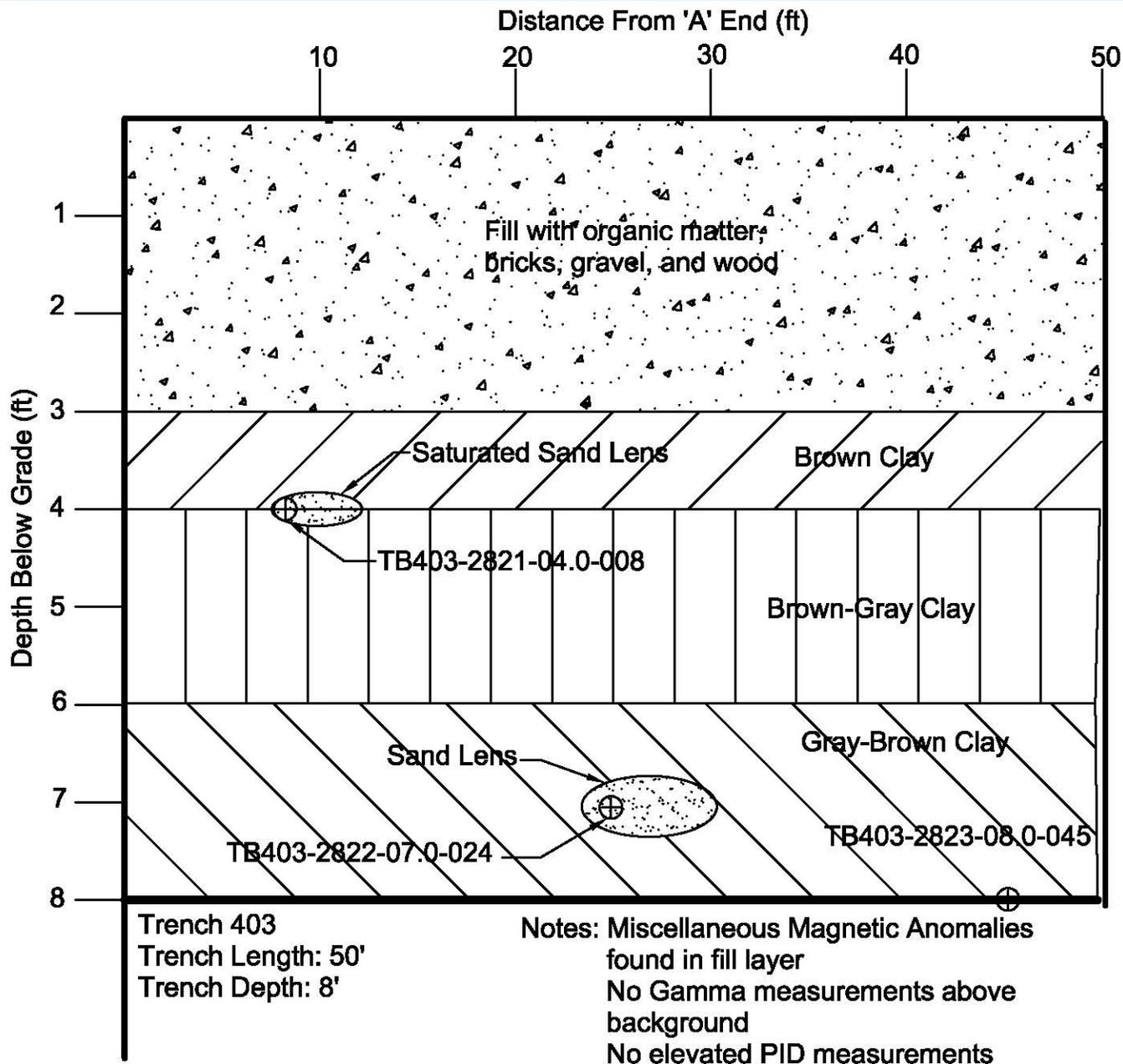
TRENCH 304
 NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-24
SCALE: As Shown	DATE: 11/14/2006
DRAWN BY: DWC	CHECKED BY: MLS



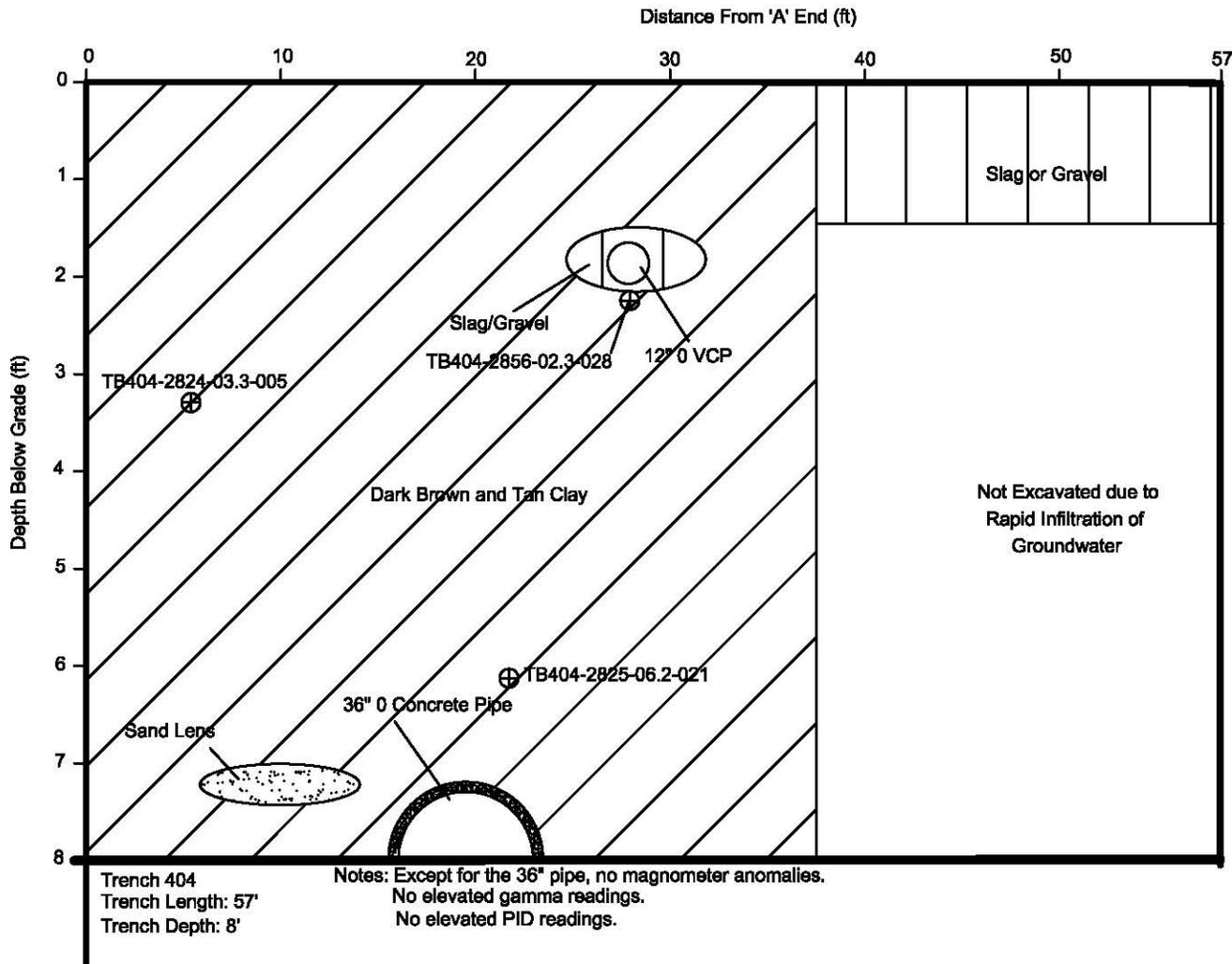
TRENCH 305
NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-25
SCALE: As Shown	DATE: 11/14/2006
DRAWN BY: DWC	CHECKED BY: MLS



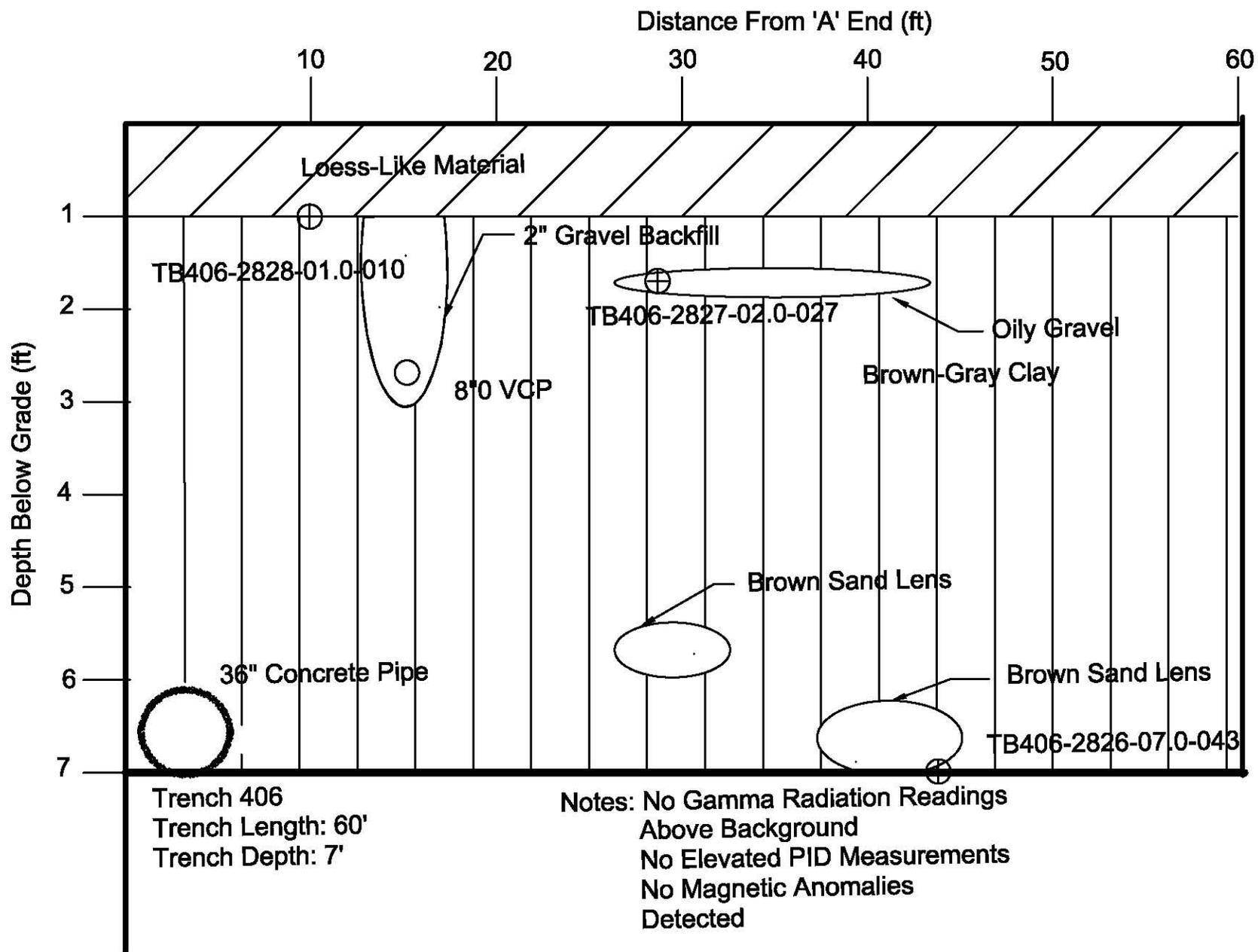
TRENCH 403
NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-26
SCALE: As Shown	DATE: 11/14/2006
DRAWN BY: DWC	CHECKED BY: MLS



TRENCH 404
NIAGARA FALLS STORAGE SITE

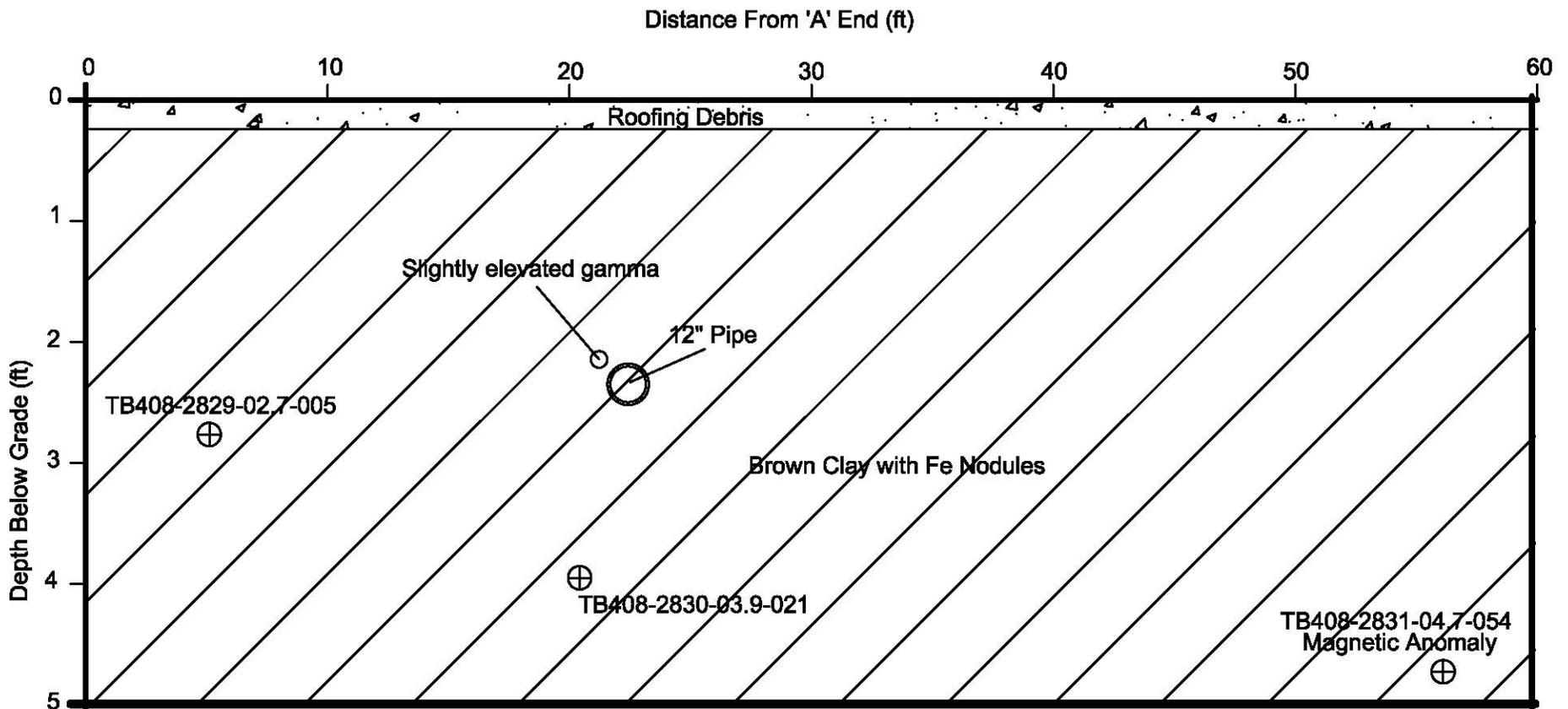
MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-27
SCALE: As Shown	DATE: 11/13/2006
DRAWN BY: DWC	CHECKED BY: MLS



TRENCH 406

NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-28
SCALE: As Shown	DATE: 11/14/2006
DRAWN BY: DWC	CHECKED BY: MLS

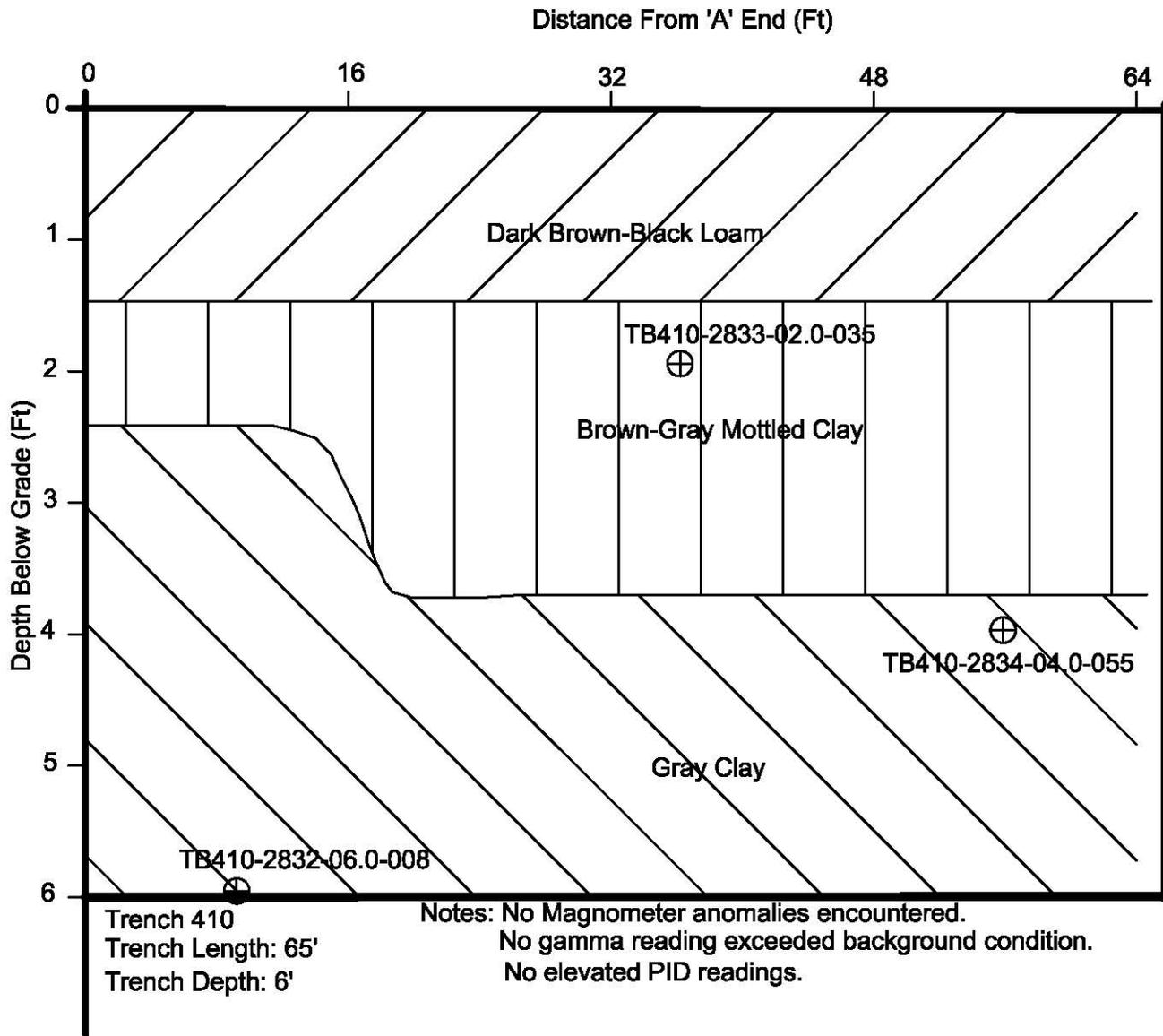


Trench 408
 Trench Length: 60'
 Trench Depth: 5'

Notes: Several small magnetic anomalies.
 Slightly elevated gamma readings in trench wall at 0+21, 2.3' deep.
 No elevated PID readings.

TRENCH 408
 NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-29
SCALE: As Shown	DATE: 11/13/2006
DRAWN BY: DWC	CHECKED BY: MLS

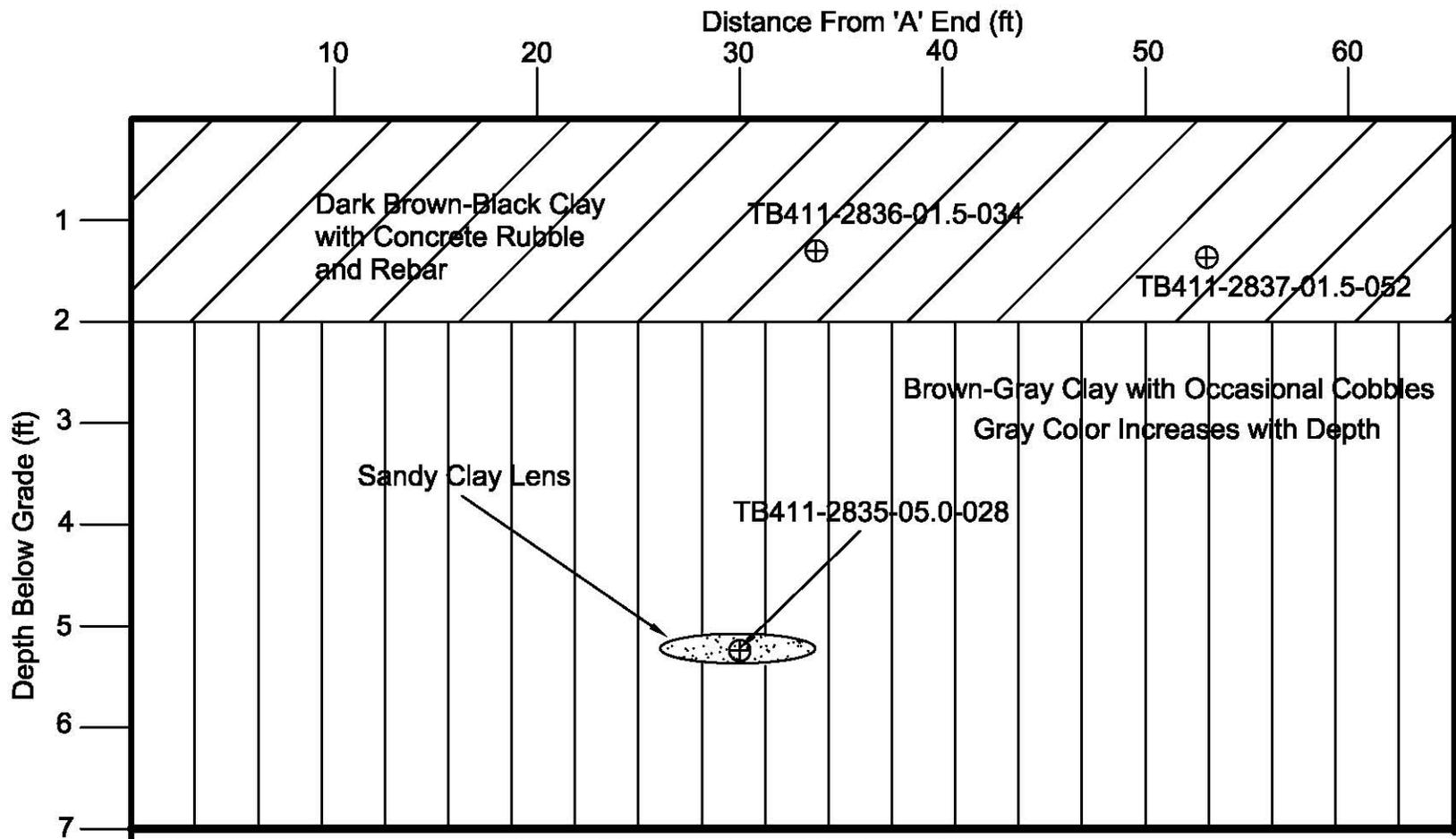


Trench 410
 Trench Length: 65'
 Trench Depth: 6'

Notes: No Magnometer anomalies encountered.
 No gamma reading exceeded background condition.
 No elevated PID readings.

TRENCH 410
 NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-30
SCALE: As Shown	DATE: 11/13/2006
DRAWN BY: DWC	CHECKED BY: MLS



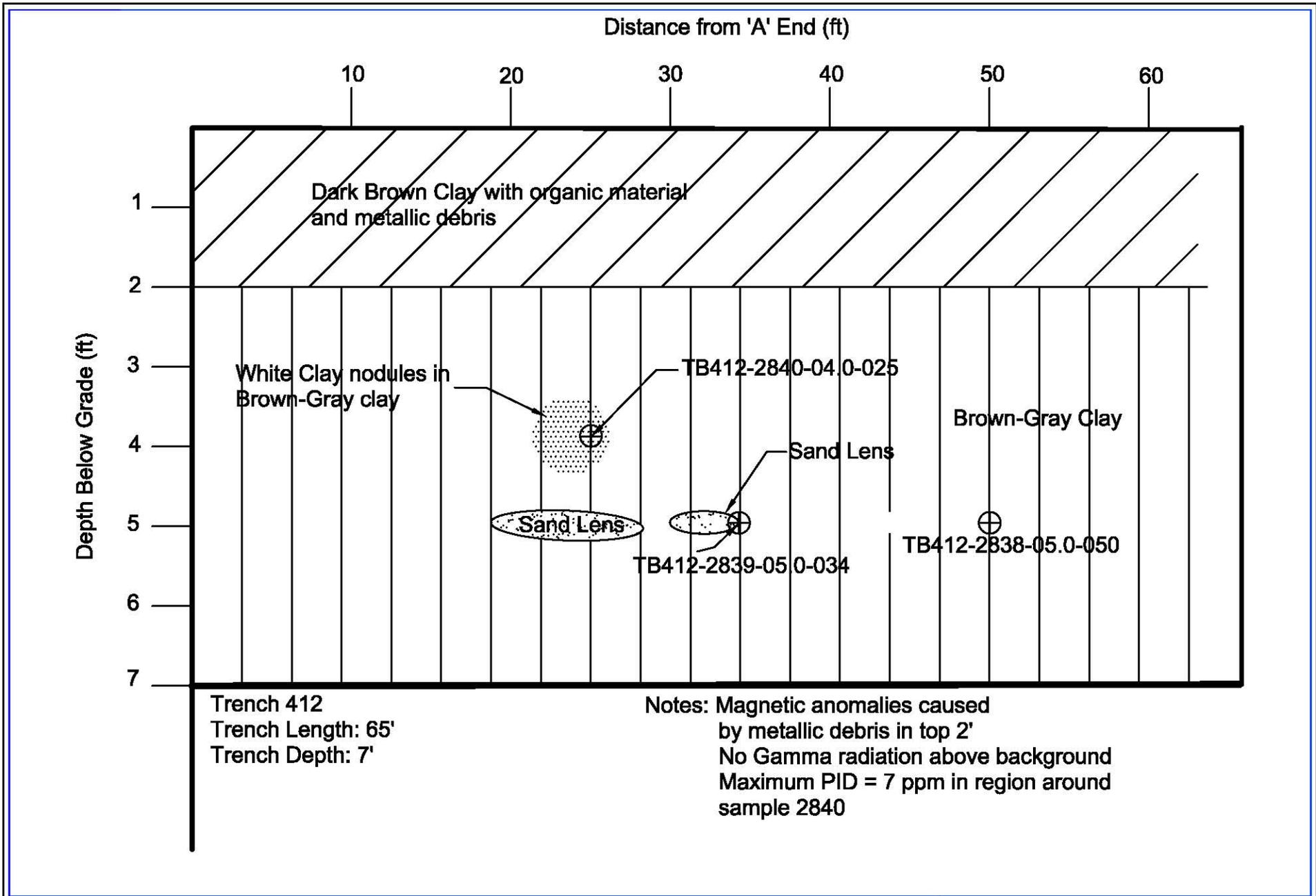
Trench 411
 Trench Length: 65'
 Trench Depth: 7'

Notes: Magnetic Anomalies in top 2'
 caused by rebar
 No Elevated PID measurements
 Gamma Radiation at TB411-2836
 -01.5-034 was 17.5 kcpm
 Gamma radiation at TB411-2837
 -01.5-052 was 20 kcpm
 Gamma radiation at other location
 was at or below background

'A' end of trench moved 4' North
 to avoid disturbing a 20kcpm
 surface hotspot

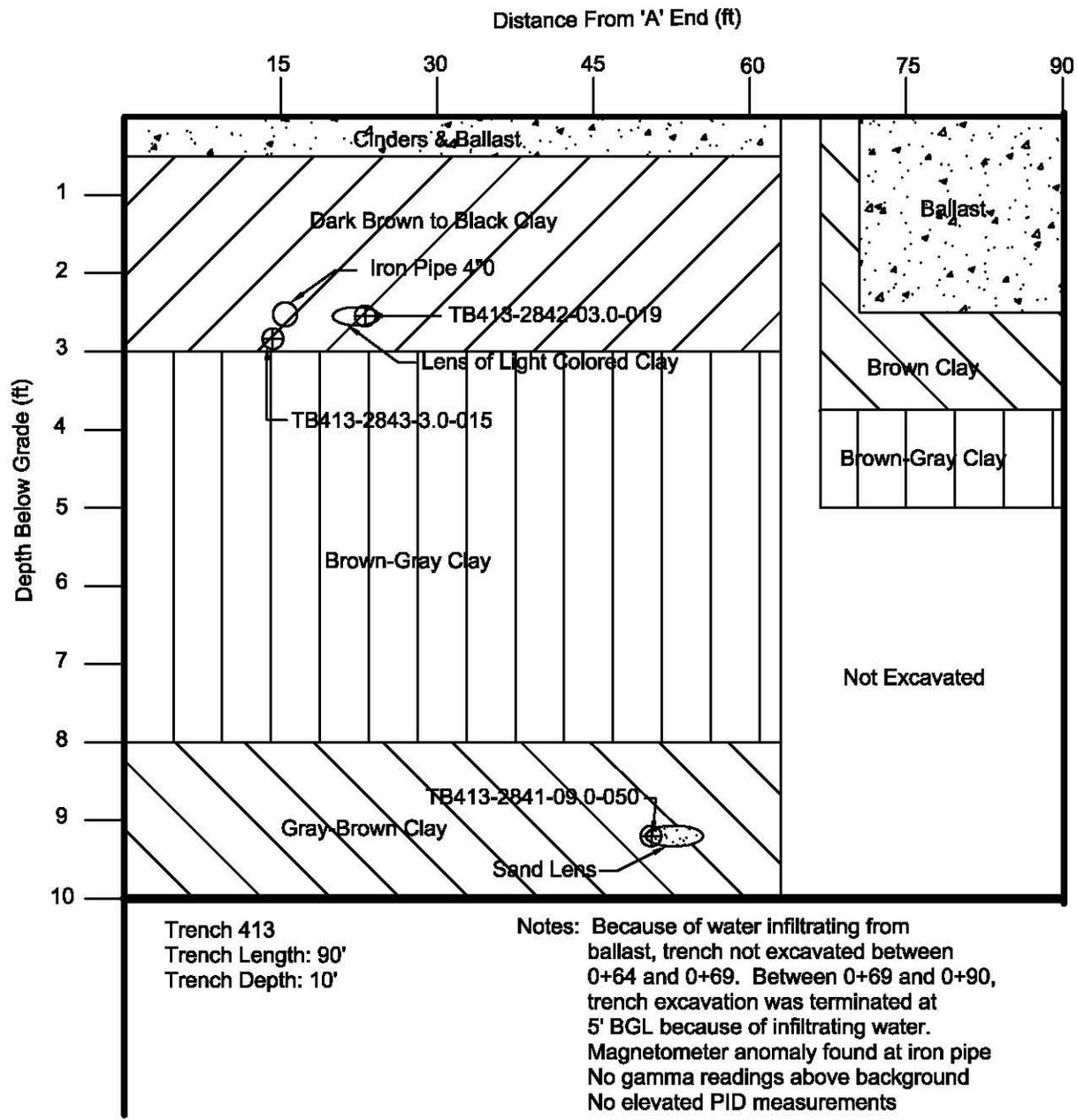
TRENCH 411
 NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC.		ST LOUIS, MO.	
PROJECT NO.	15892	FIGURE #:	3-31
SCALE:	As Shown	DATE:	11/13/2006
DRAWN BY:	DWC	CHECKED BY:	MLS



TRENCH 412
NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-32
SCALE: As Shown	DATE: 11/13/2006
DRAWN BY: DWC	CHECKED BY: MLS

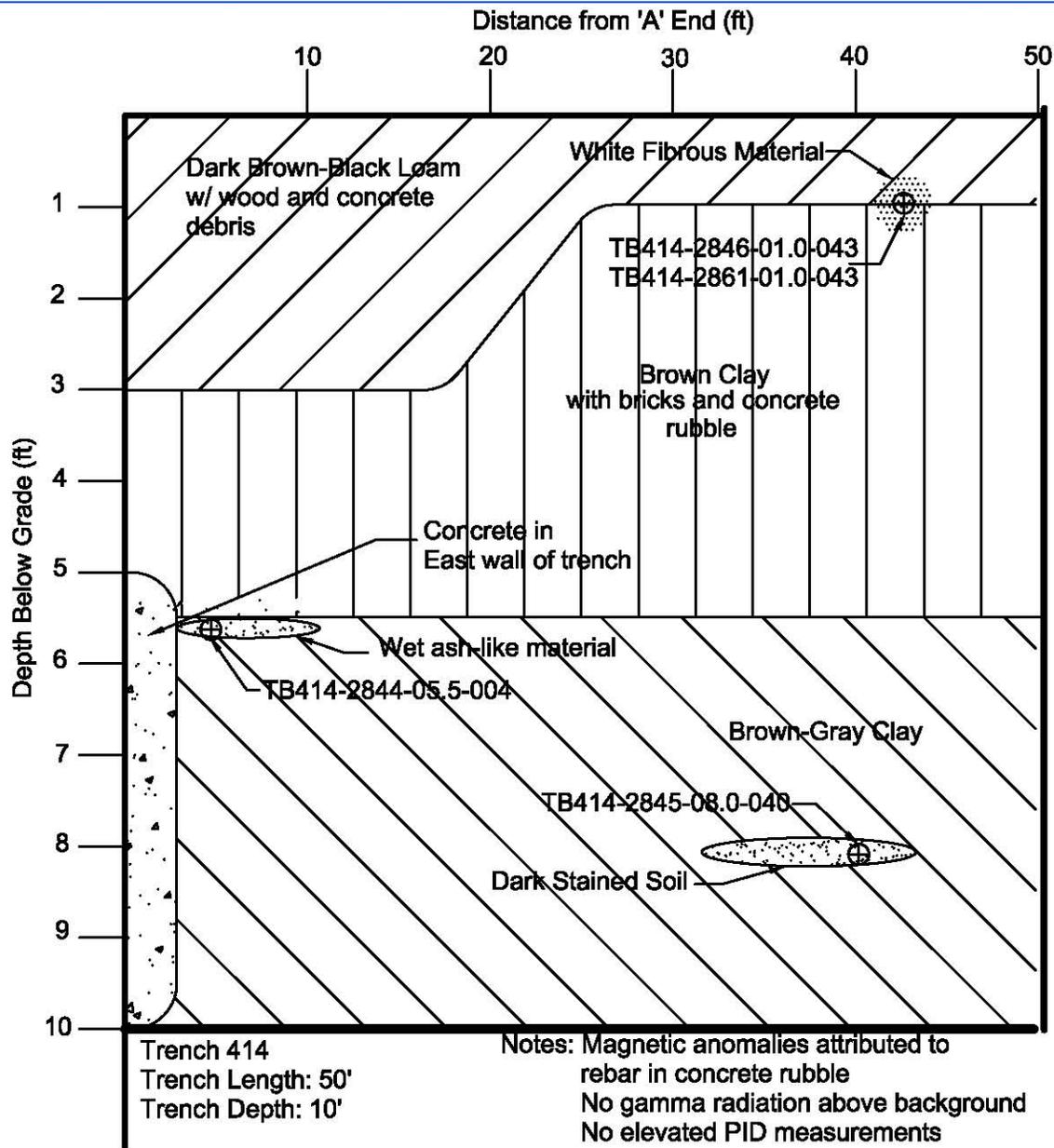


Trench 413
 Trench Length: 90'
 Trench Depth: 10'

Notes: Because of water infiltrating from ballast, trench not excavated between 0+64 and 0+69. Between 0+69 and 0+90, trench excavation was terminated at 5' BGL because of infiltrating water. Magnetometer anomaly found at iron pipe. No gamma readings above background. No elevated PID measurements.

TRENCH 413
 NIAGARA FALLS STORAGE SITE

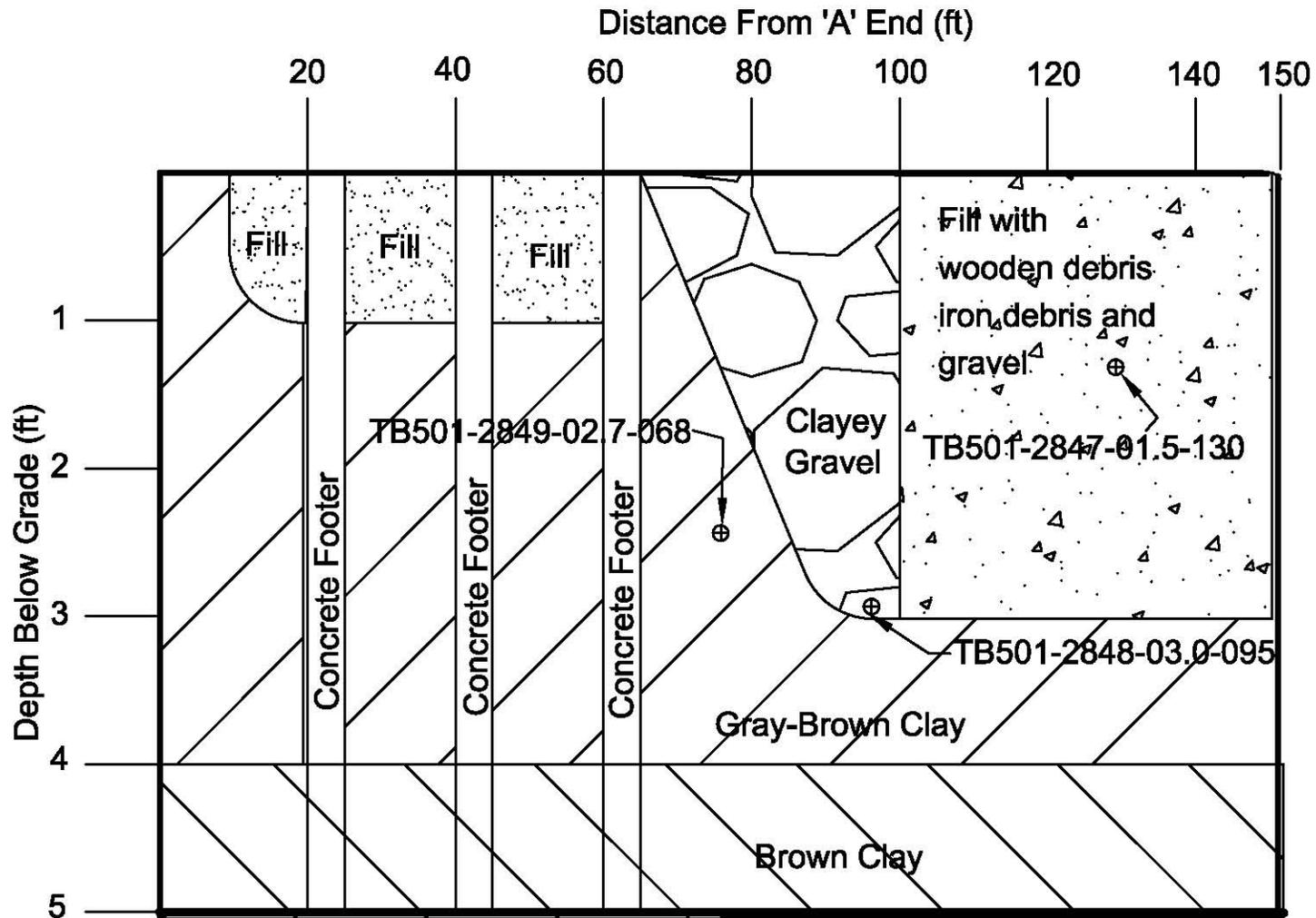
MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-33
SCALE: As Shown	DATE: 11/13/2006
DRAWN BY: DWC	CHECKED BY: MLS



TRENCH 414
NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC.
ST LOUIS, MO.

PROJECT NO. 15892	FIGURE #: 3-34
SCALE: As Shown	DATE: 11/13/2006
DRAWN BY: DWC	CHECKED BY: MLS



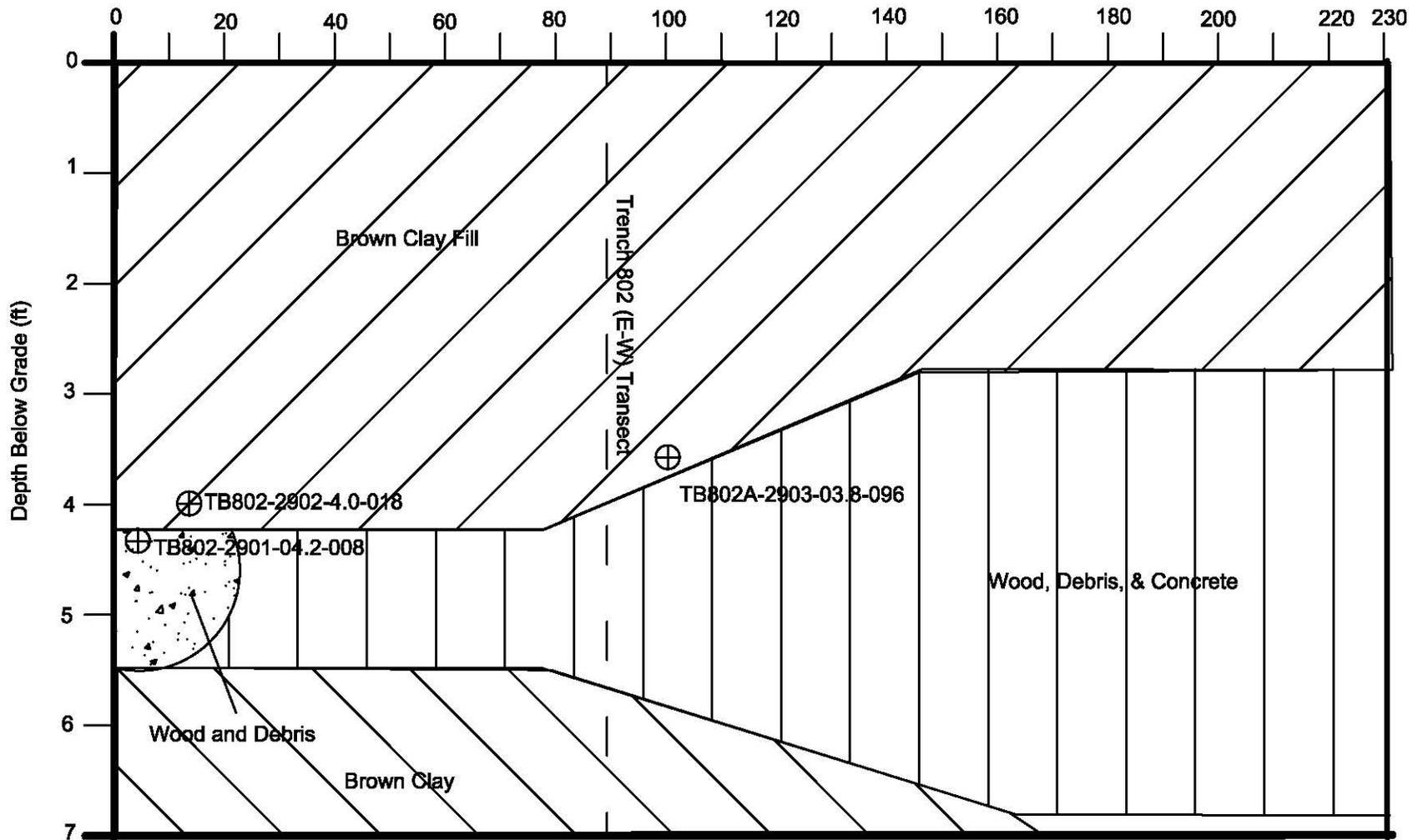
Trench 501
 Trench Length: 150'
 Trench Depth: 5'

Notes: Numerous small metallic items found especially prevalent between 1+35' and 1+50'
 No elevated gamma readings.
 No elevated PID measurements

TRENCH 501
 NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-35
SCALE: As Shown	DATE: 11/13/2006
DRAWN BY: DWC	CHECKED BY: MLS

Distance From 'A' End (ft)



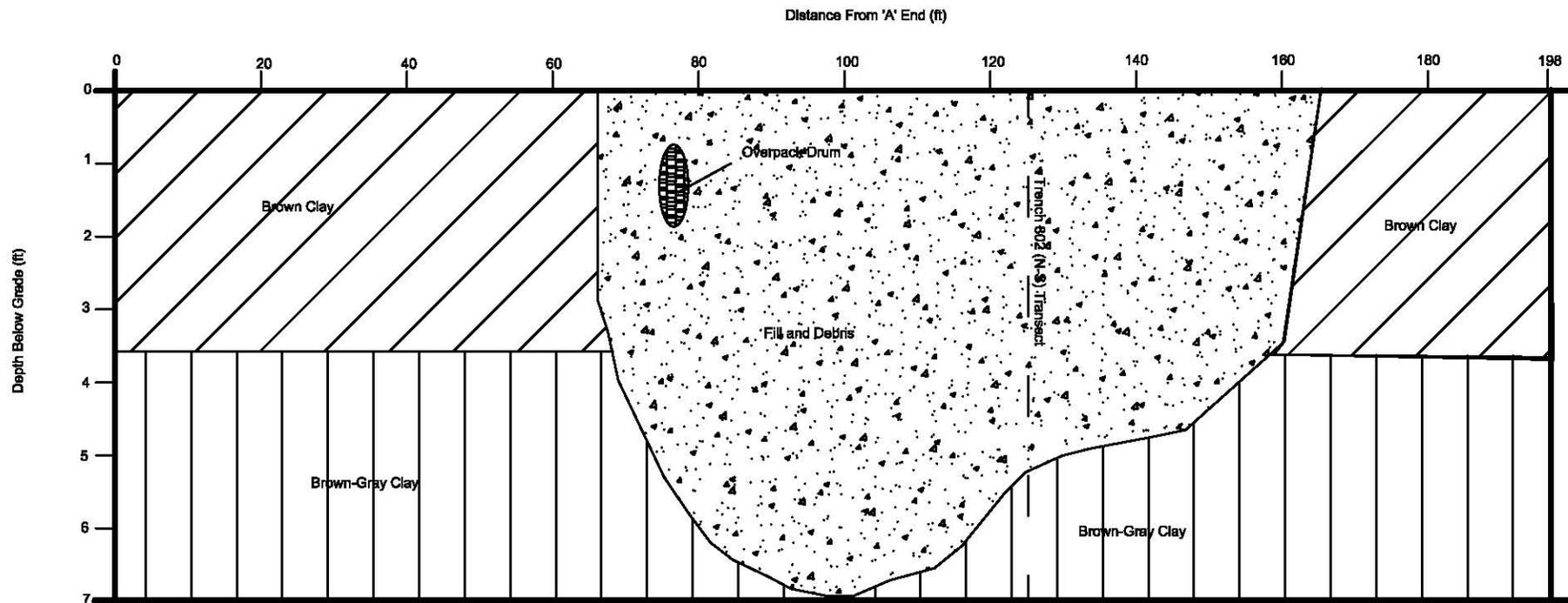
Trench 802 (N-S)
Trench Length: 230'
Trench Depth: 7'

Notes: Numerous magnetic anomalies from debris.
Numerous elevated gamma readings.
Fill and debris from 0+00 to 0+230, surface to approx 6'.

TRENCH 802 (N-S)
NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC.
ST LOUIS, MO.

PROJECT NO. 15892	FIGURE #: 3-36
SCALE: As Shown	DATE: 11/13/2006
DRAWN BY: DWC	CHECKED BY: MLS



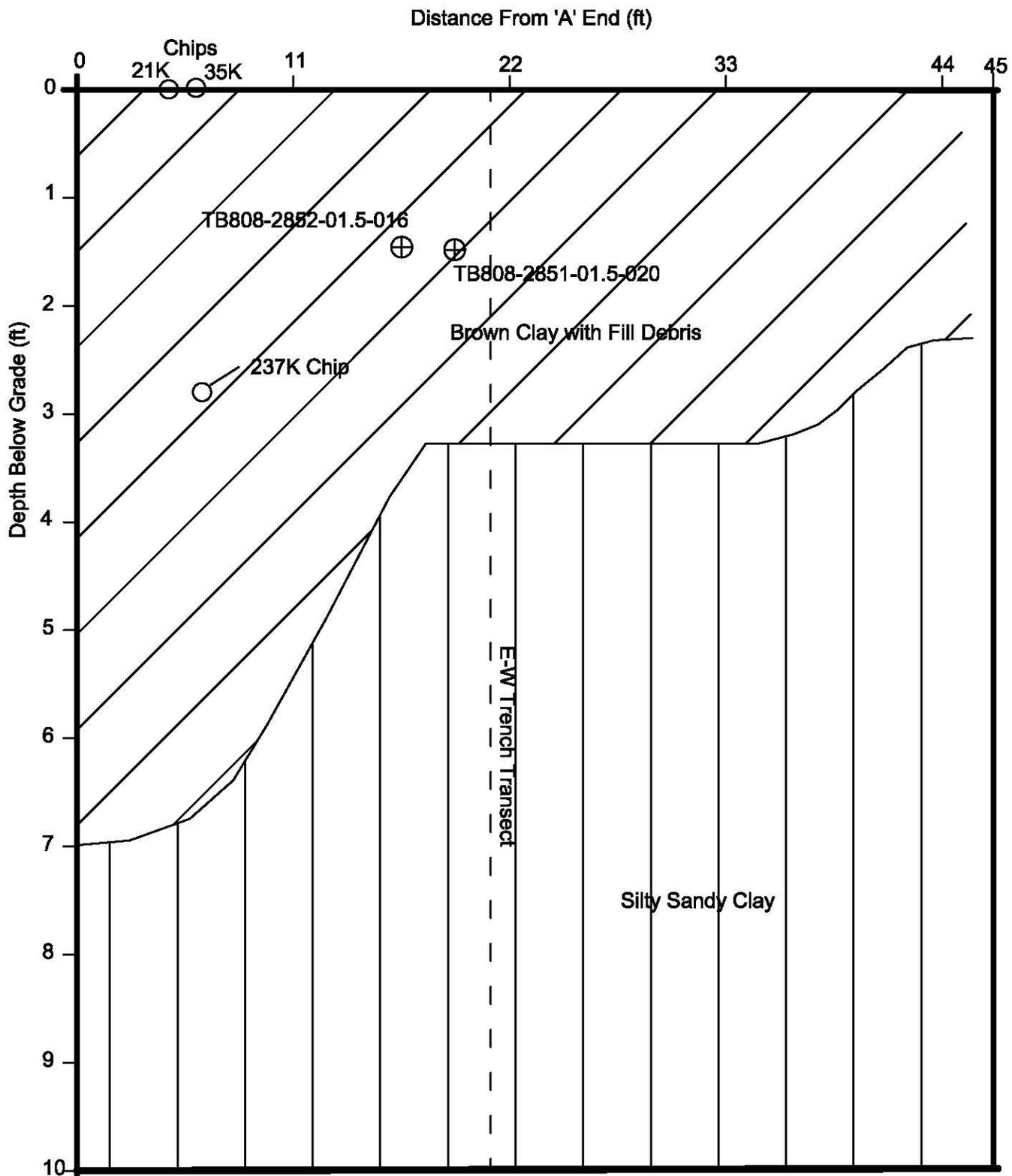
Trench 802 (E-W)
 Trench Length: 198'
 Trench Depth: 3-7'

Notes: Several magnetic anomalies from debris.
 Some slightly elevated (2x background) gamma readings from trench.
 Fill and debris from 0+65 to 0+165, surface to approx 6'.
 No samples were collected in this trench.

TRENCH 802 (E-W)
 NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC.
 ST LOUIS, MO.

PROJECT NO. 15892	FIGURE #: 3-37
SCALE: As Shown	DATE: 11/13/2006
DRAWN BY: DWC	CHECKED BY: MLS



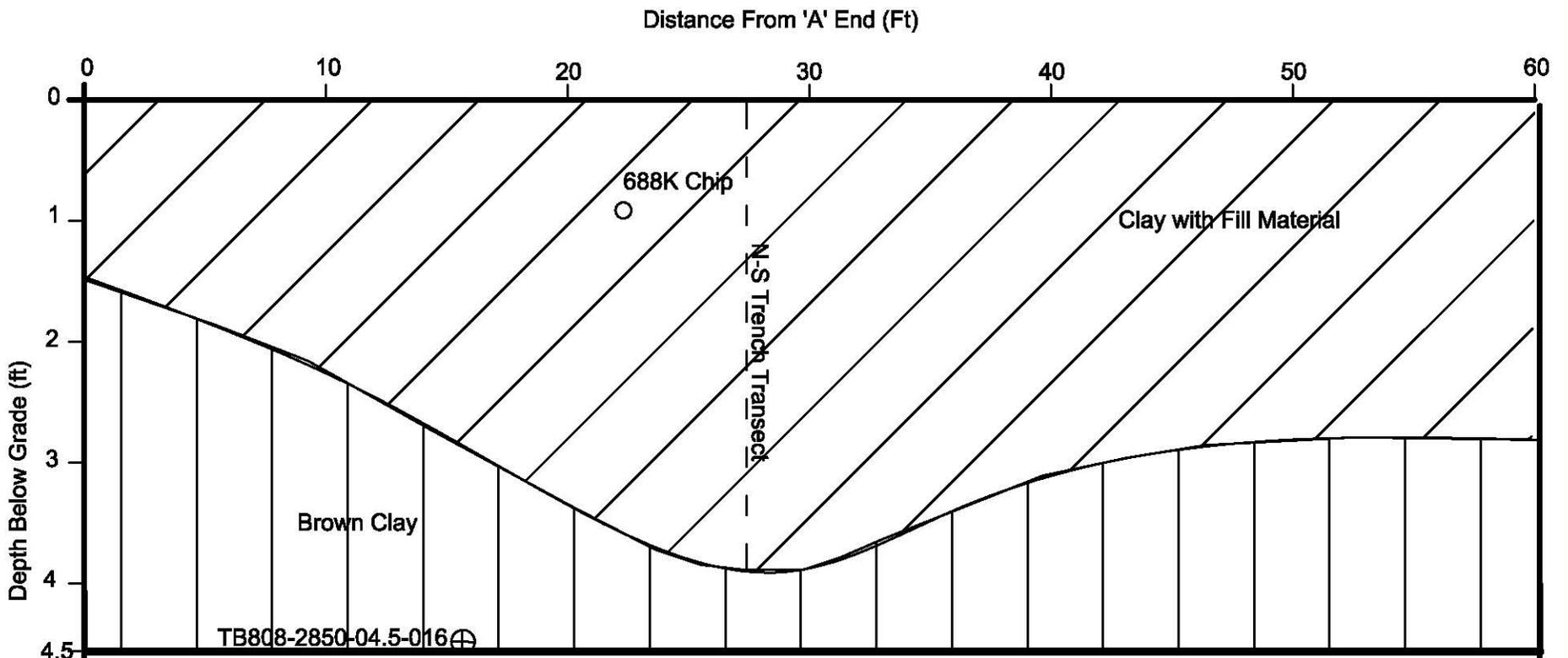
Trench 808
 Trench Length: 45'
 Trench Depth: 10'

Notes: No magnetic anomalies.
 Several chips found with elevated gamma readings.
 No elevated PID readings.

TRENCH *808 (N-S)
 NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC.
 ST LOUIS, MO.

PROJECT NO. 15892	FIGURE #: 3-38
SCALE: As Shown	DATE: 11/13/2006
DRAWN BY: DWC	CHECKED BY: MLS

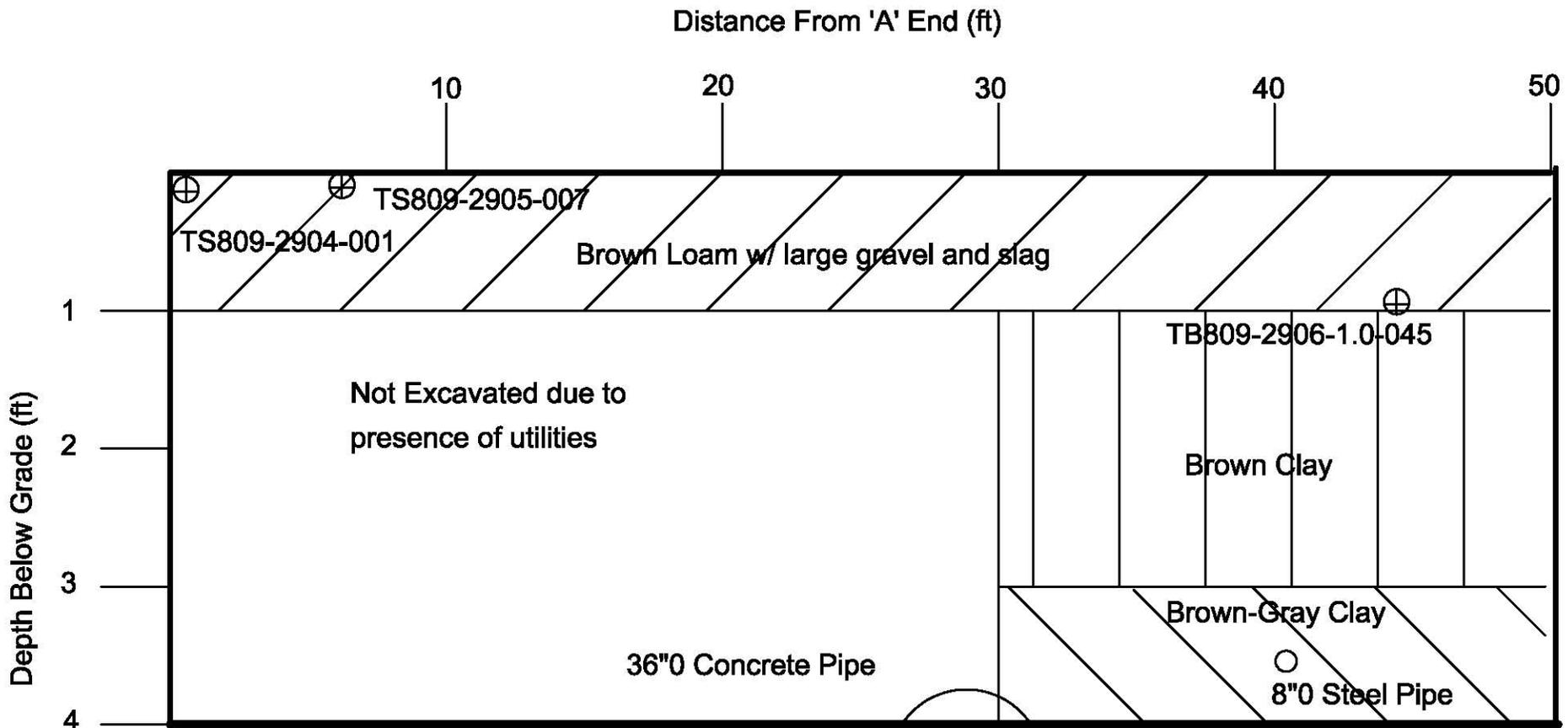


Trench 808 (E-W)
 Trench Length: 60'
 Trench Depth: 4.5'

Notes: Several small magnetic anomalies.
 Slightly elevated gamma readings in trench wall at 0+21, 2.3' deep.
 No elevated PID readings.
 3 Chips found

TRENCH 808 (E-W)
 NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-39
SCALE: As Shown	DATE: 11/13/2006
DRAWN BY: DWC	CHECKED BY: MLS



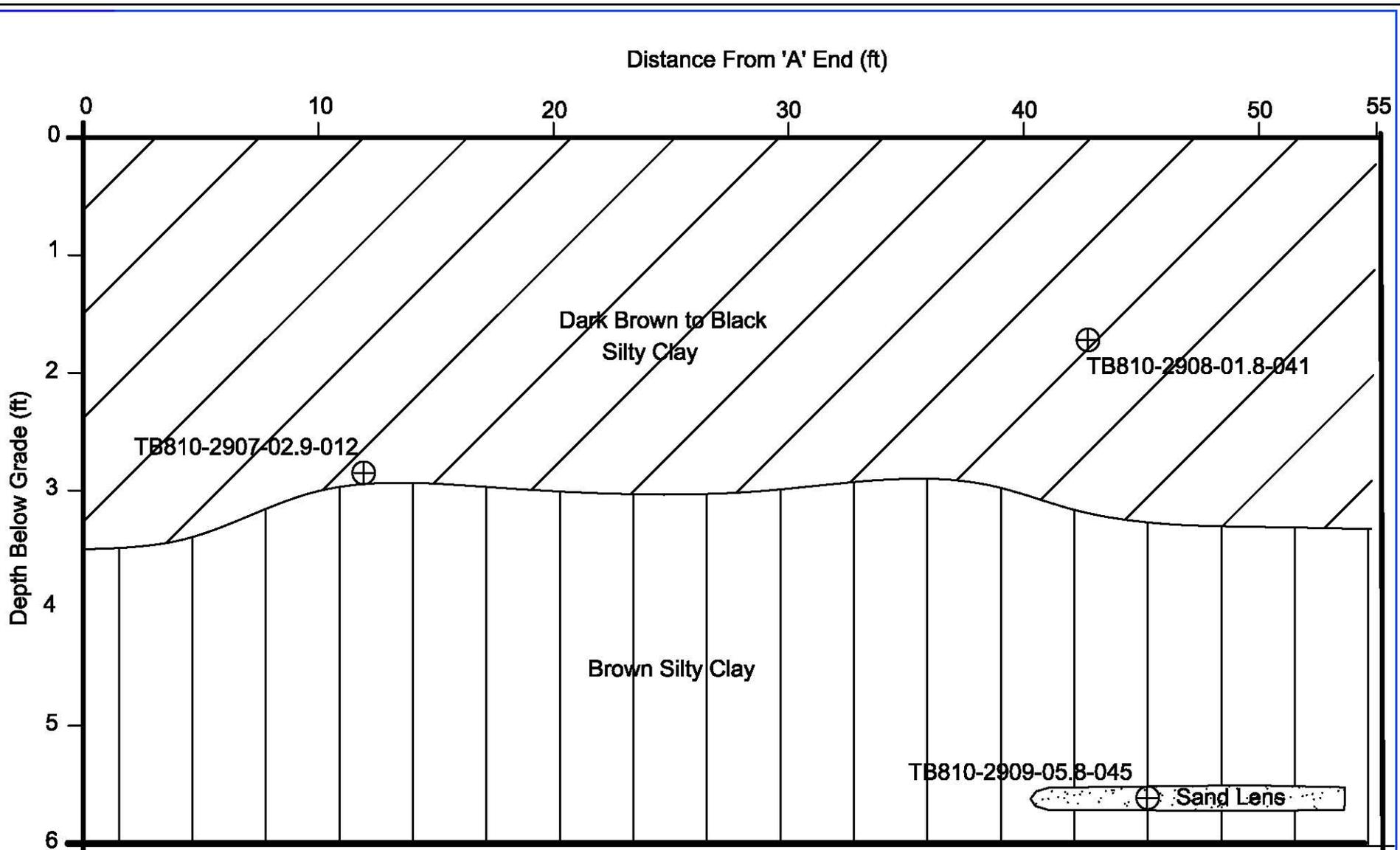
Trench 809
 Trench Length: 50'
 Trench Depth: 4'

Notes: Numerous small magnetic anomalies in top 1'. Magnetic anomaly at +30' attributed to reinforcement in concrete pipe
 Elevated gamma radiation (20 kcpm) on surface at 0+07'
 Elevated gamma radiation (50 kcpm) at 1' Bgl at 0+45'
 No Elevated PID measurements

TRENCH 809
 NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC.
 ST LOUIS, MO.

PROJECT NO. 15892	FIGURE #: 3-40
SCALE: As Shown	DATE: 11/14/2006
DRAWN BY: DWC	CHECKED BY:

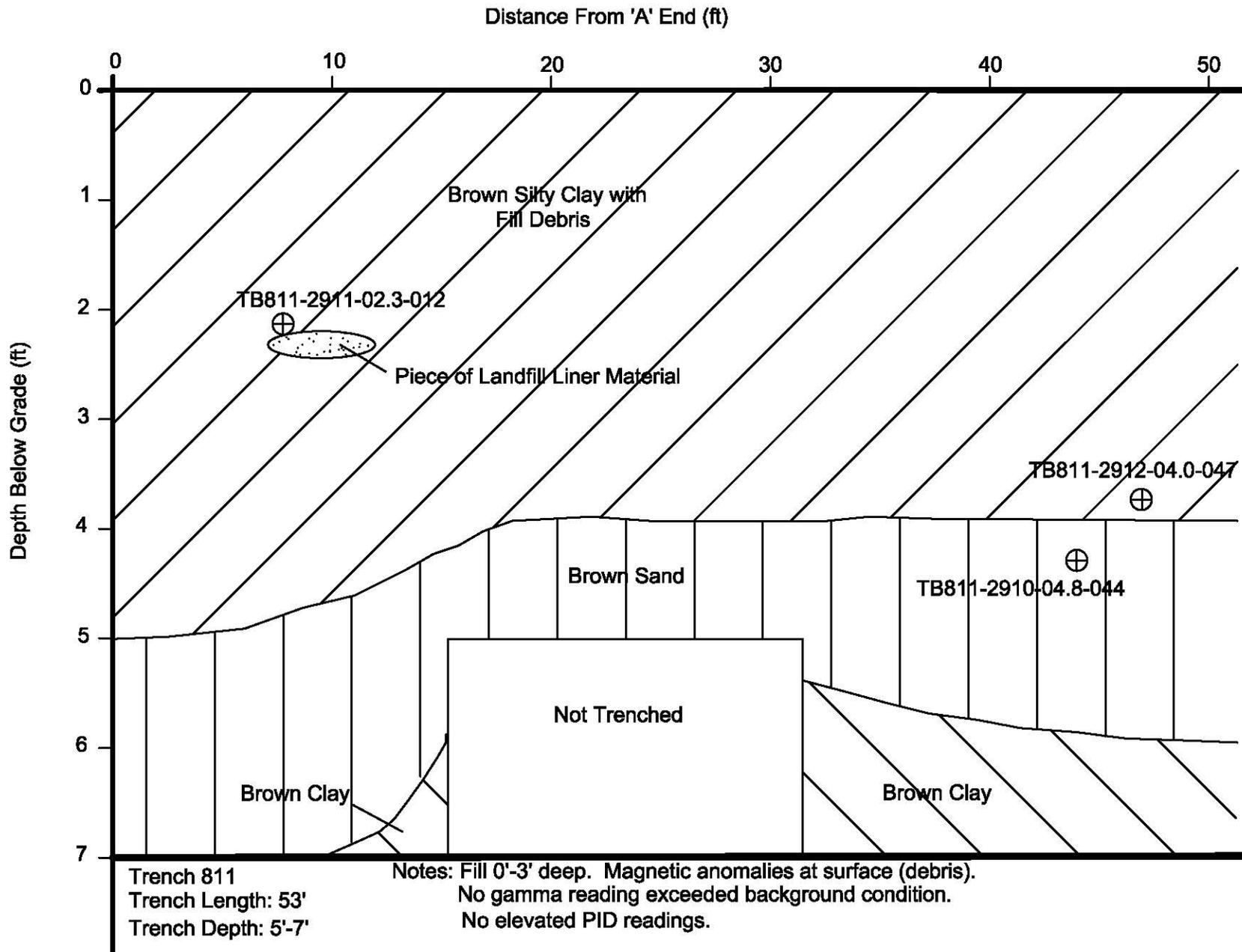


Trench 810
 Trench Length: 55'
 Trench Depth: 5.5'-6.0'

Notes: Disturbed Soil at 0'-3' deep.
 Elevated gamma reading in sidewall at 0+41", 1.8' deep.
 No elevated PID readings.

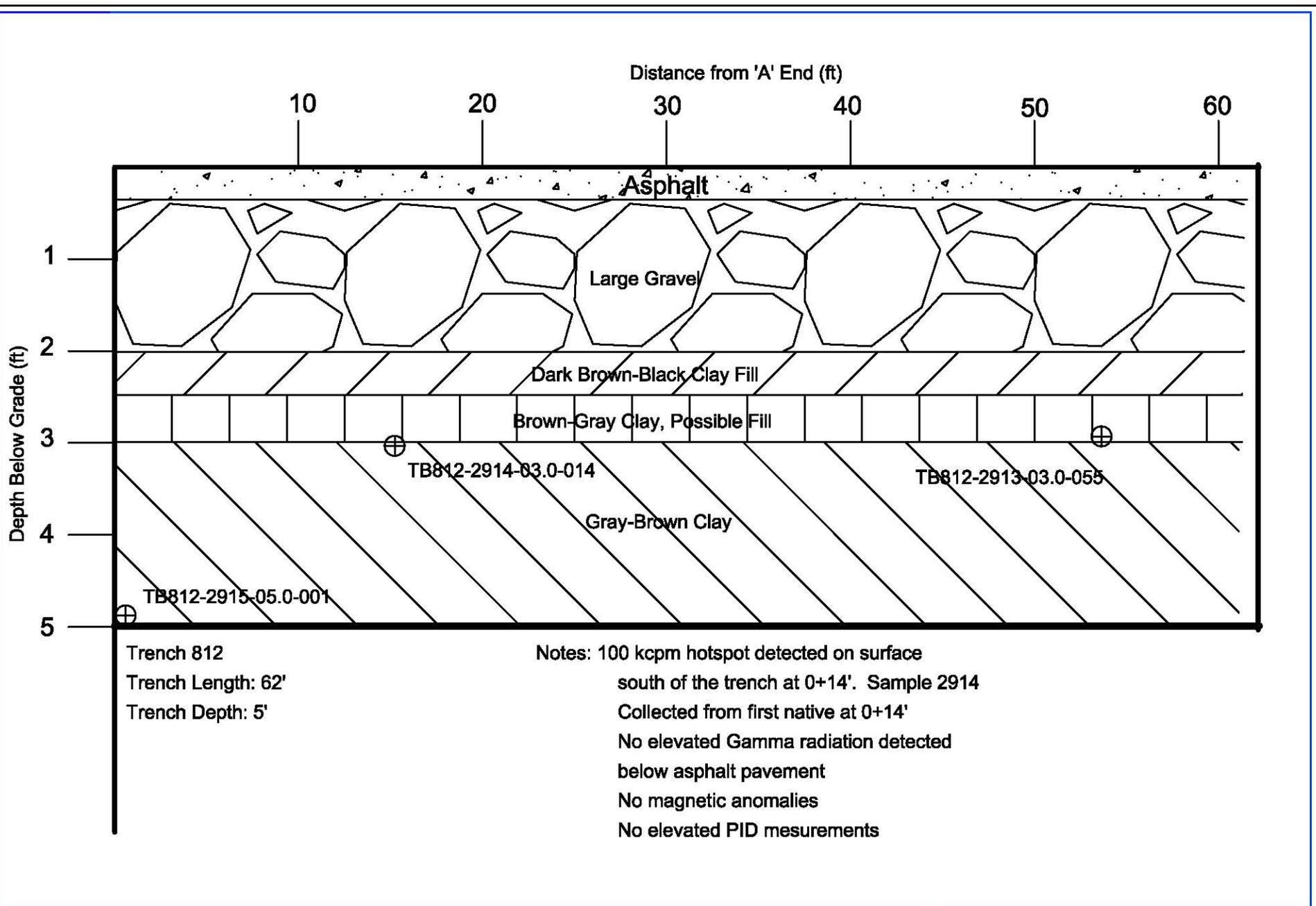
TRENCH 810
 NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-41
SCALE: As Shown	DATE: 11/13/2006
DRAWN BY: DWC	CHECKED BY: MLS



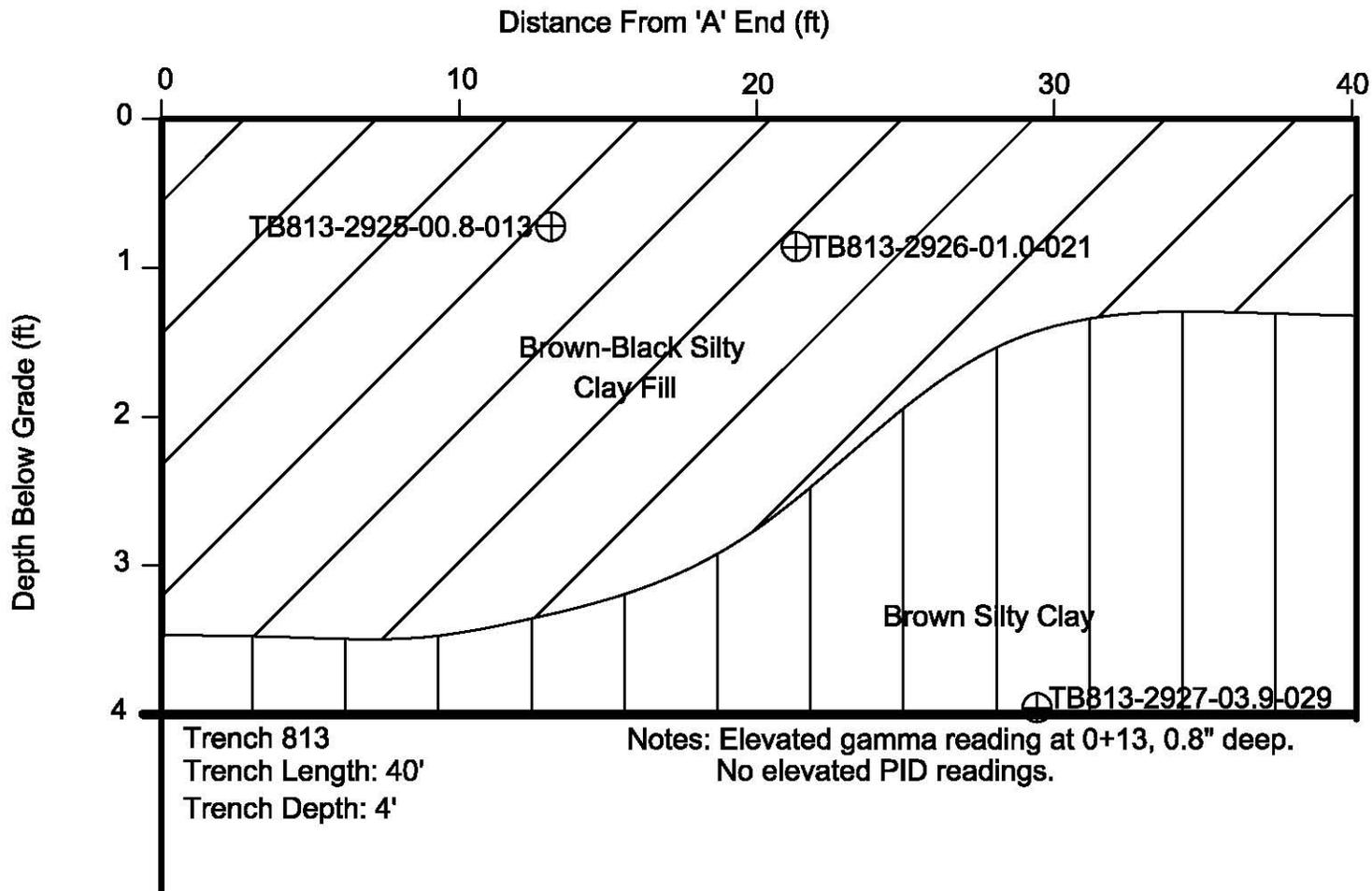
TRENCH 811
NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-42
SCALE: As Shown	DATE: 11/13/2006
DRAWN BY: DWC	CHECKED BY: MLS



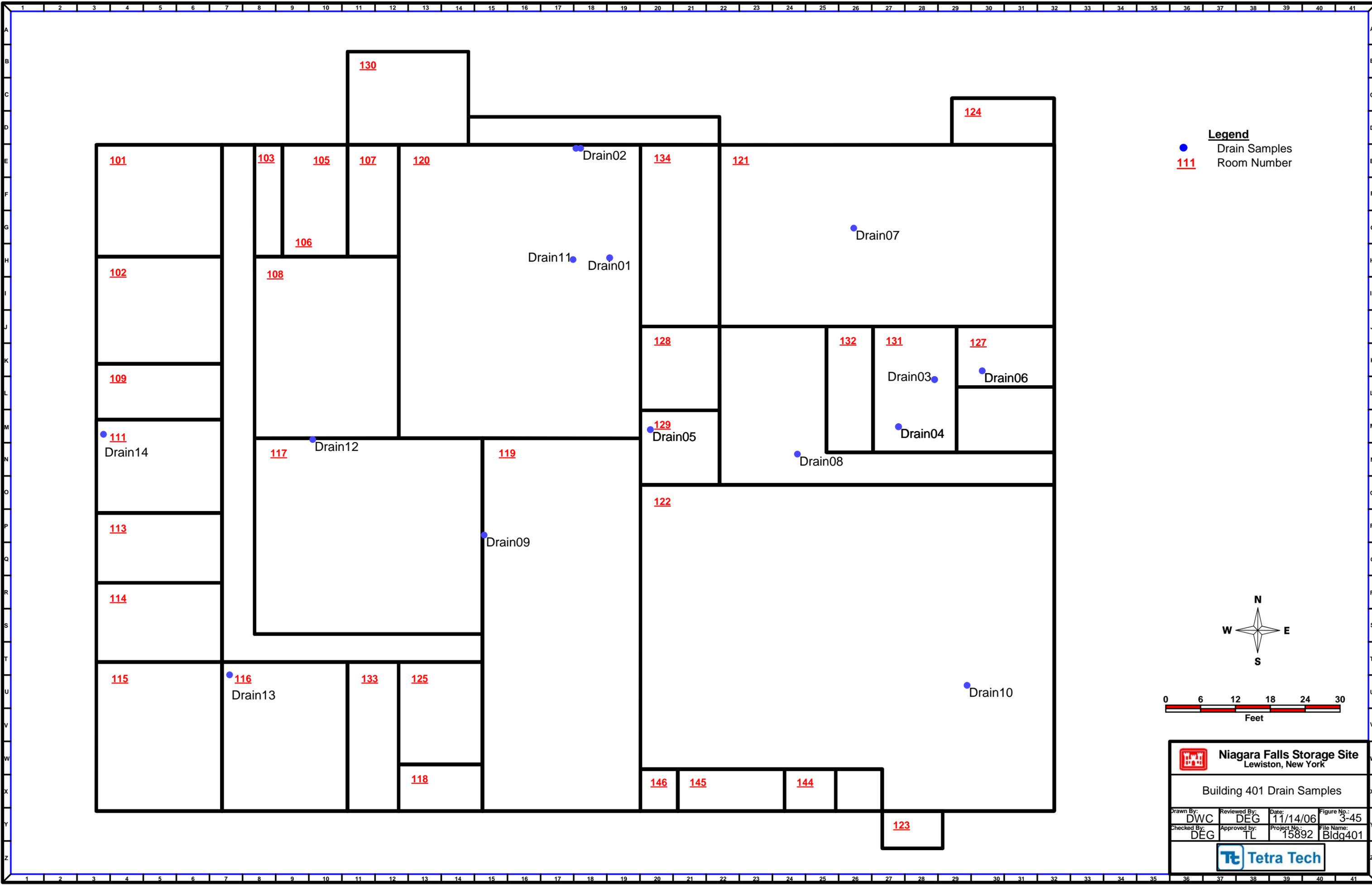
TRENCH 812
NIAGARA FALLS STORAGE SITE

MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-43
SCALE: As Shown	DATE: 11/14/2006
DRAWN BY: DWC	CHECKED BY: MLS

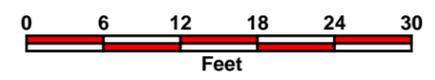


TRENCH 813
NIAGARA FALLS STORAGE SITE

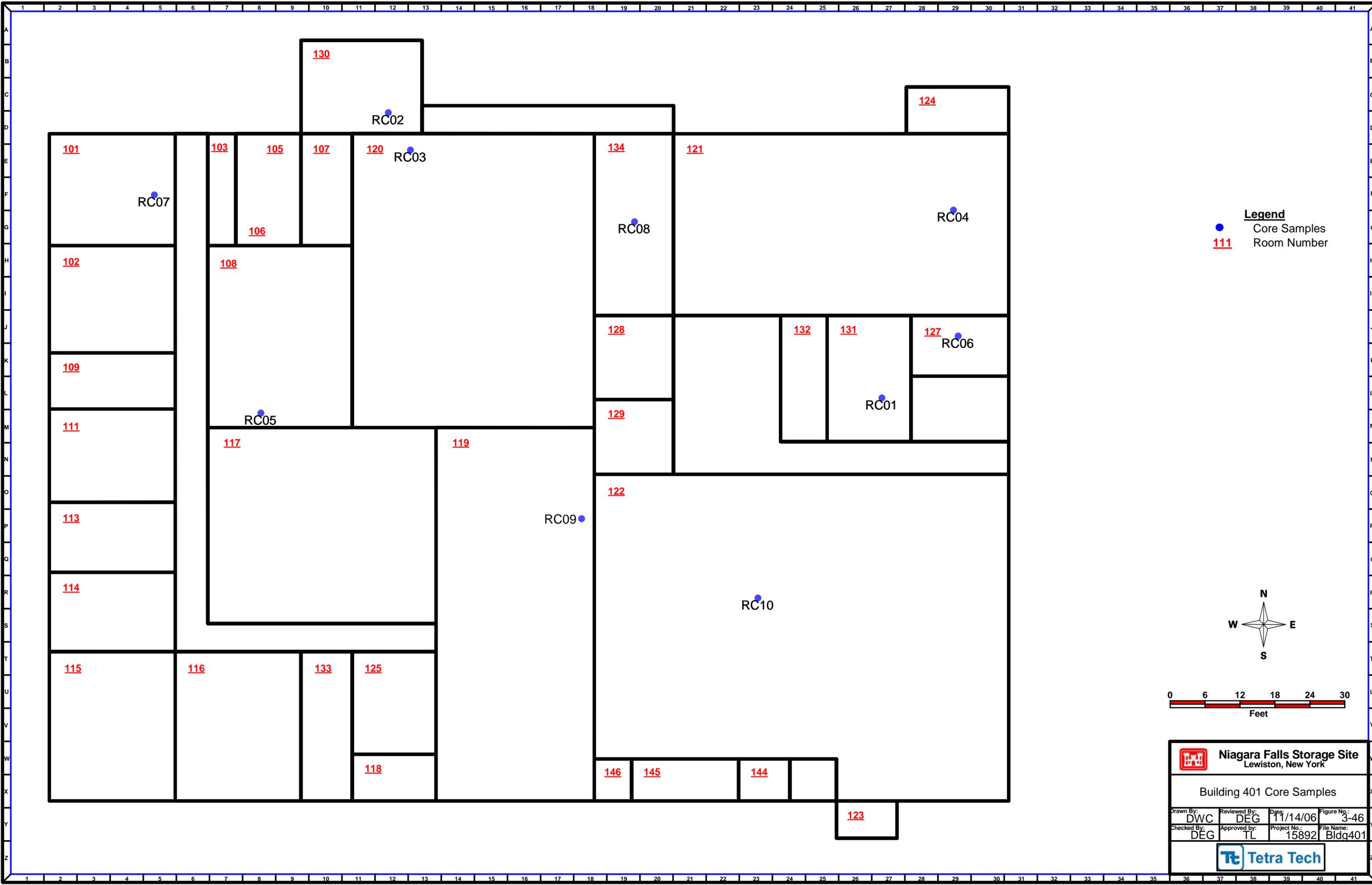
MAXIM TECHNOLOGIES INC. ST LOUIS, MO.	
PROJECT NO. 15892	FIGURE #: 3-44
SCALE: As Shown	DATE: 11/13/2006
DRAWN BY: DWC	CHECKED BY: MLS



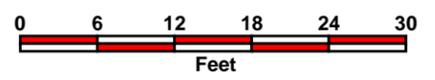
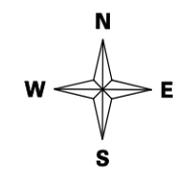
Legend
 ● Drain Samples
 111 Room Number



 Niagara Falls Storage Site Lewiston, New York			
Building 401 Drain Samples			
Drawn By: DWC	Reviewed By: DEG	Date: 11/14/06	Figure No.: 3-45
Checked By: DEG	Approved by: TL	Project No.: 15892	File Name: Bldg401
 Tetra Tech			

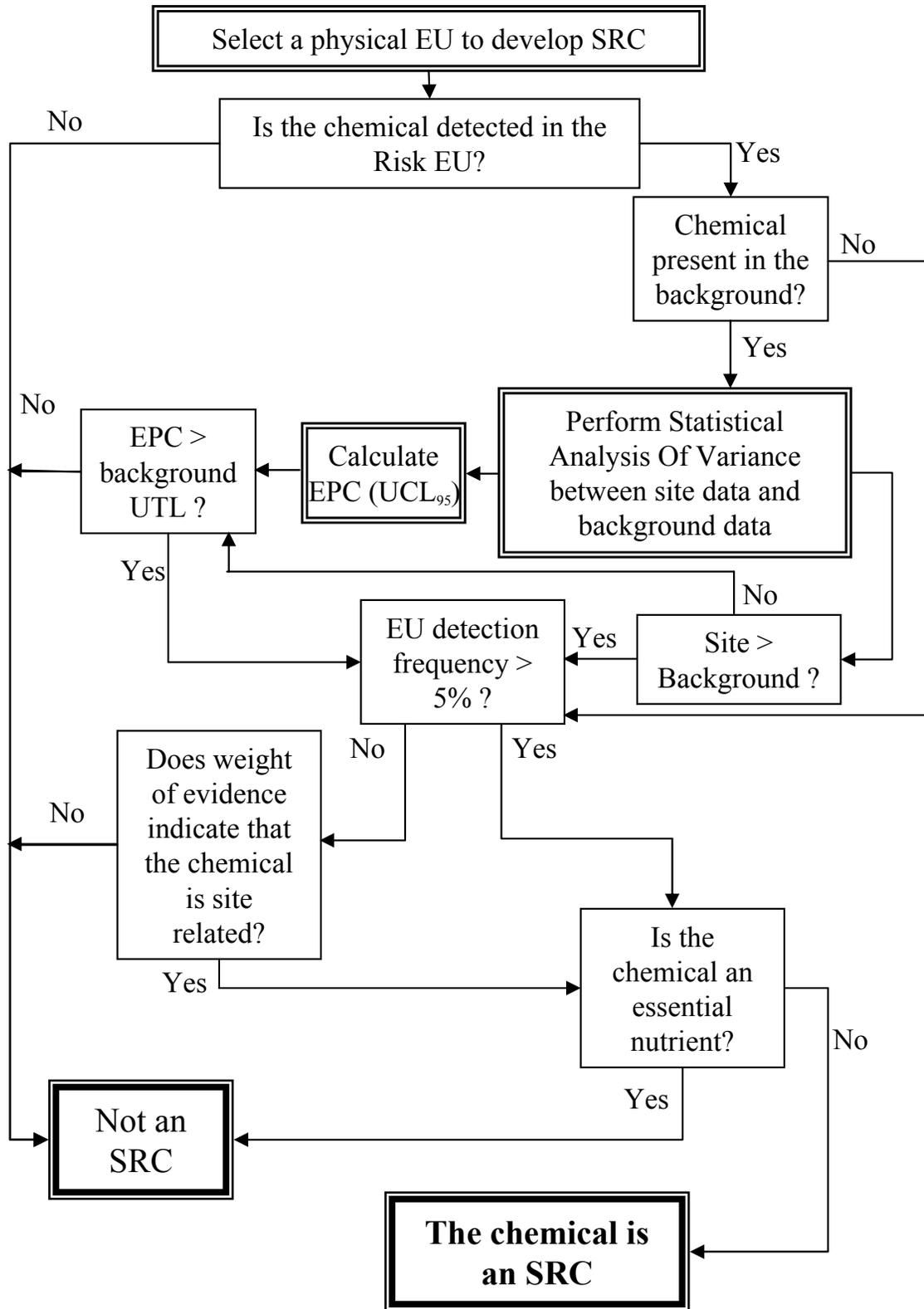


Legend
● Core Samples
111 Room Number



Niagara Falls Storage Site Lewiston, New York			
Building 401 Core Samples			
Drawn By: DWC	Reviewed By: DEG	Date: 11/14/06	Figure No.: 3-46
Checked By: DEG	Approved by: TL	Project No.: 15892	File Name: Bldg401

SRC Identification



EPC = exposure point concentration

EU = exposure unit

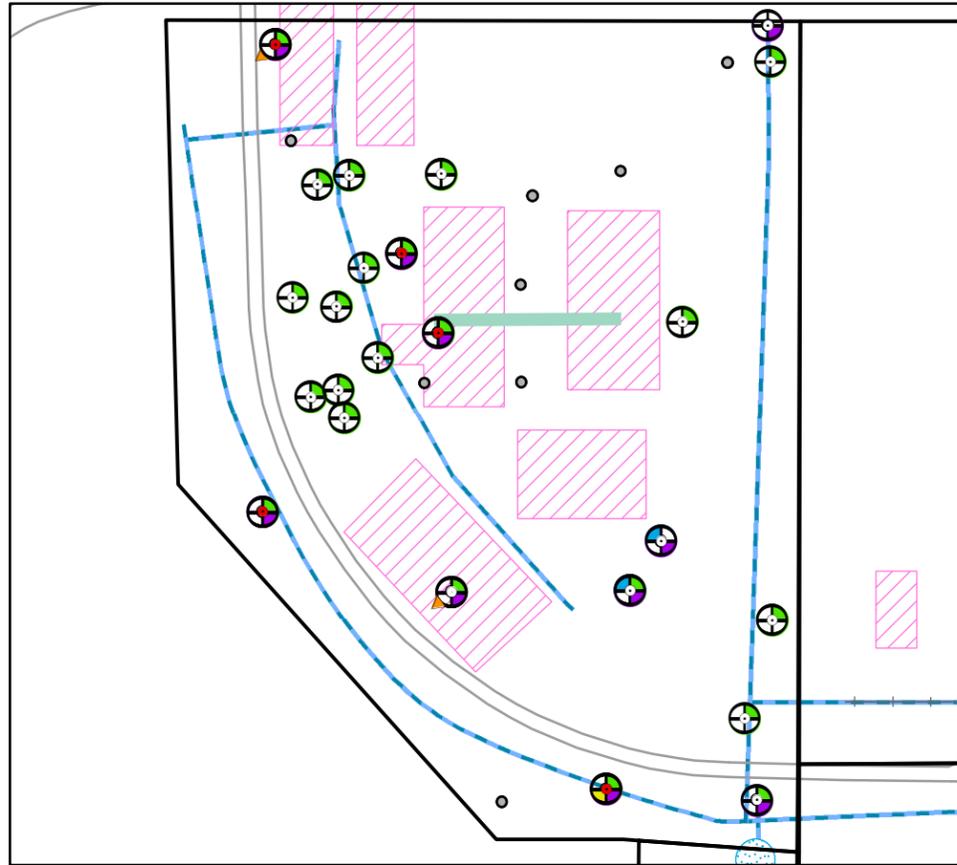
SRC = site related constituent

UCL₉₅ = 95 percentile upper confidence limit of the mean

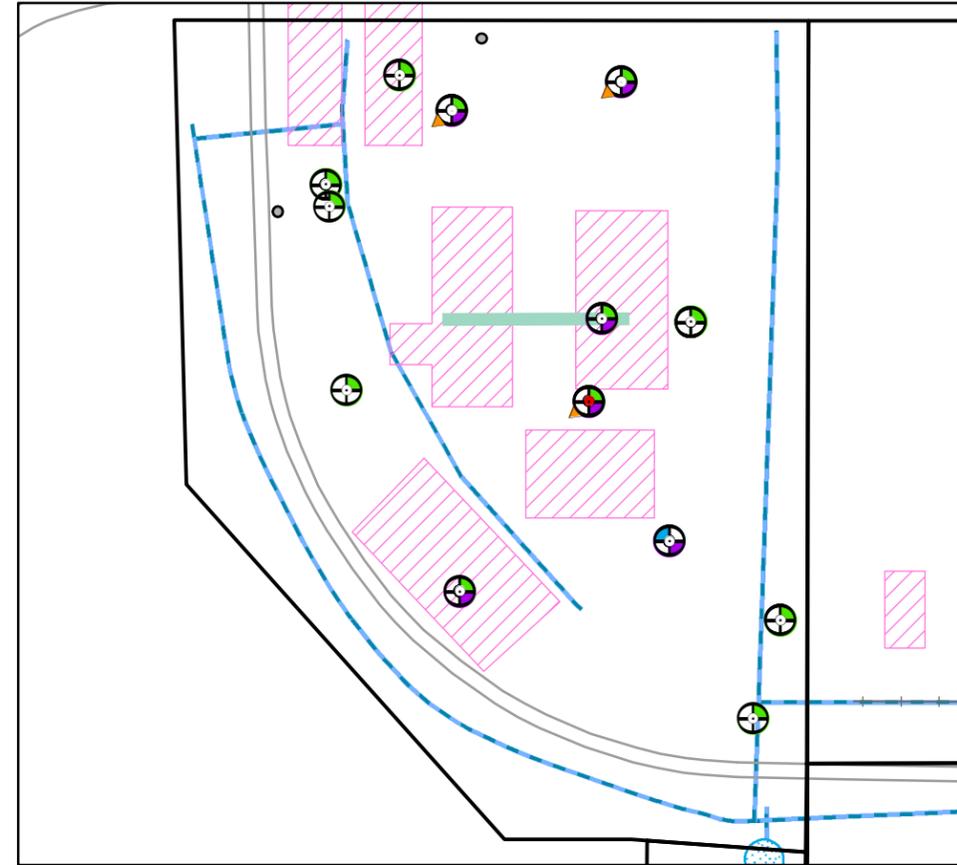
UTL = 95 percentile upper tolerance limit with 95 percentile coverage

Figure 4-1 Identification of SRCs

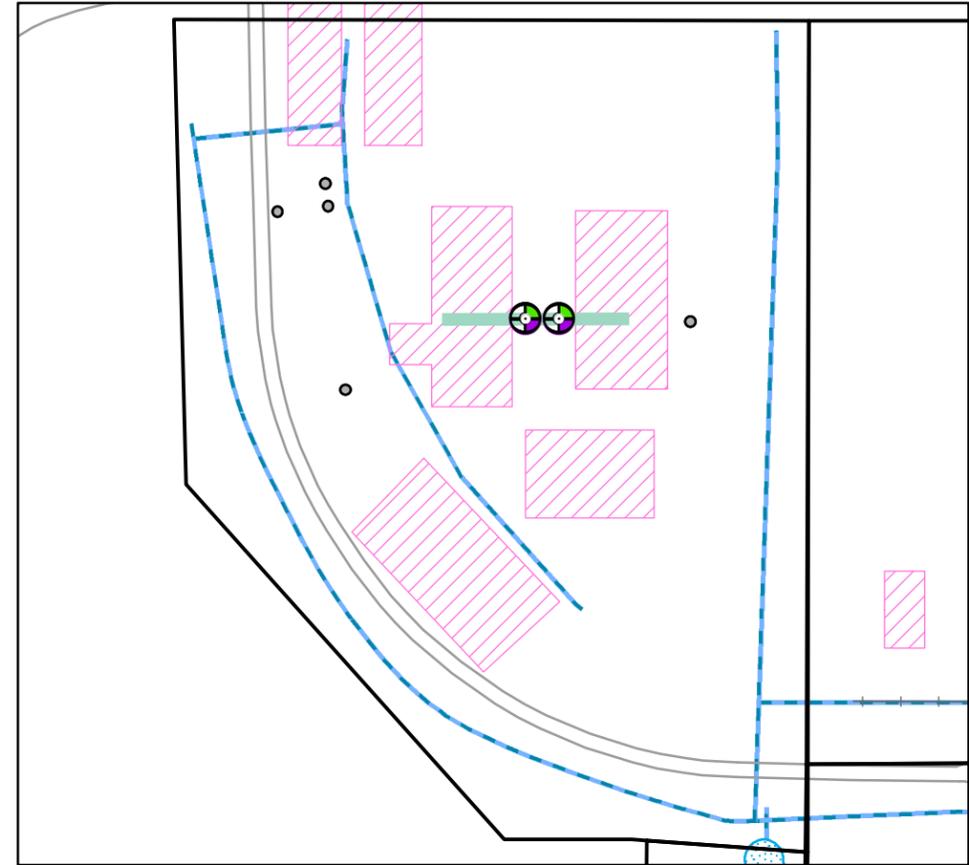
Surface Soil 0-0.5'



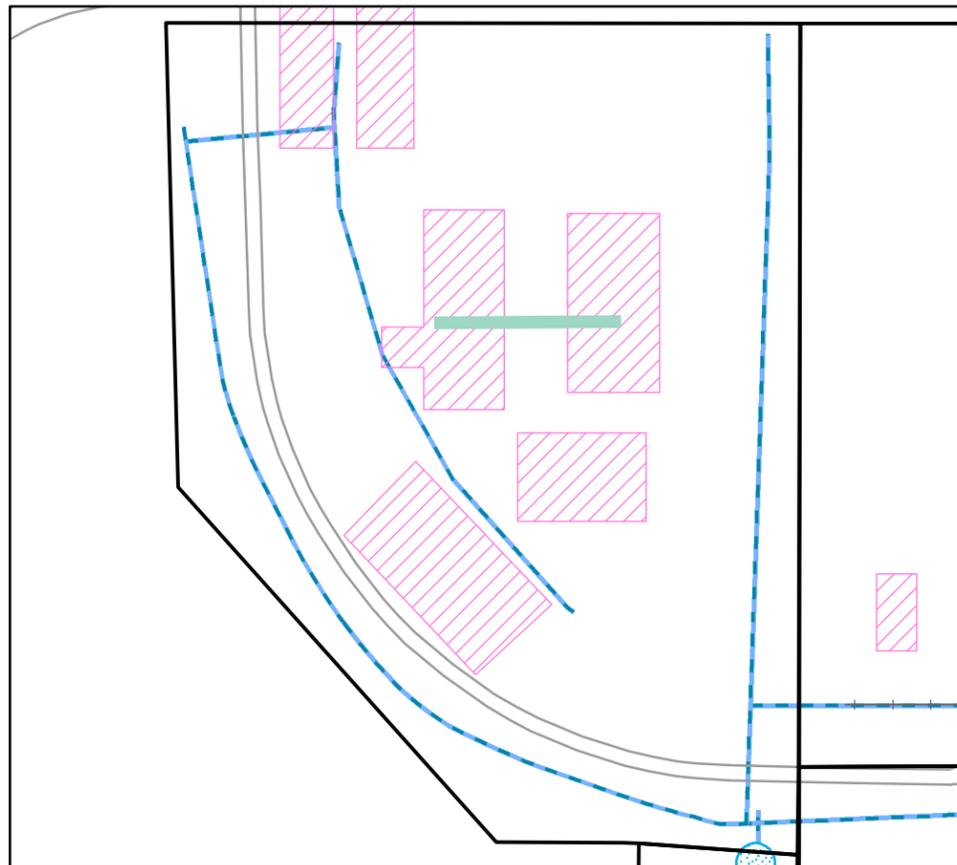
Subsurface Soil 0.5-2'



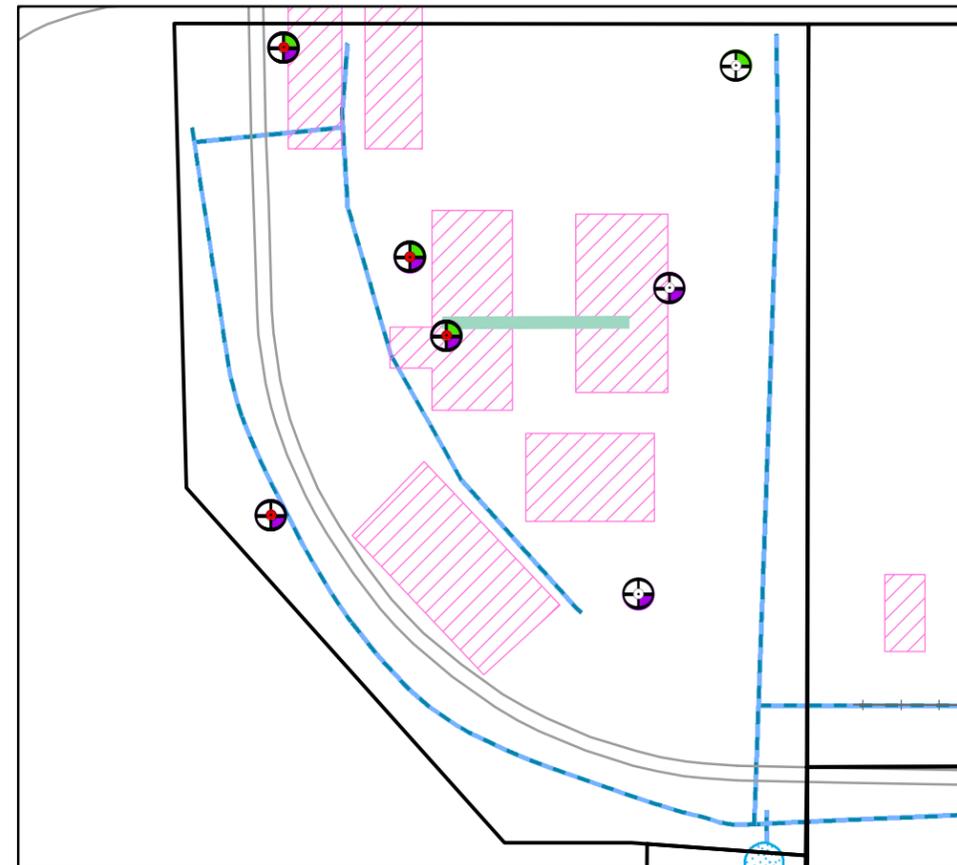
Subsurface Soil 2-5'



Subsurface Soil 5-10'



Subsurface Soil > 10'



Sitewide Legend

<ul style="list-style-type: none"> Metal PCB Pesticide Radionuclide SVOC VOC No Exceedance Structure abandoned above grade Active structure Former structure IWCS cutoff wall Test trenches 	<ul style="list-style-type: none"> Former K-65 transfer pipeline Acid sewer Water lines Culverts Fuel line Sanitary sewer Storm sewer Former remedial structures Former railroad Roads Surface water (inundated 50% of year) Ephemeral ditches EU boundary
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N
0 40 80 160
Feet

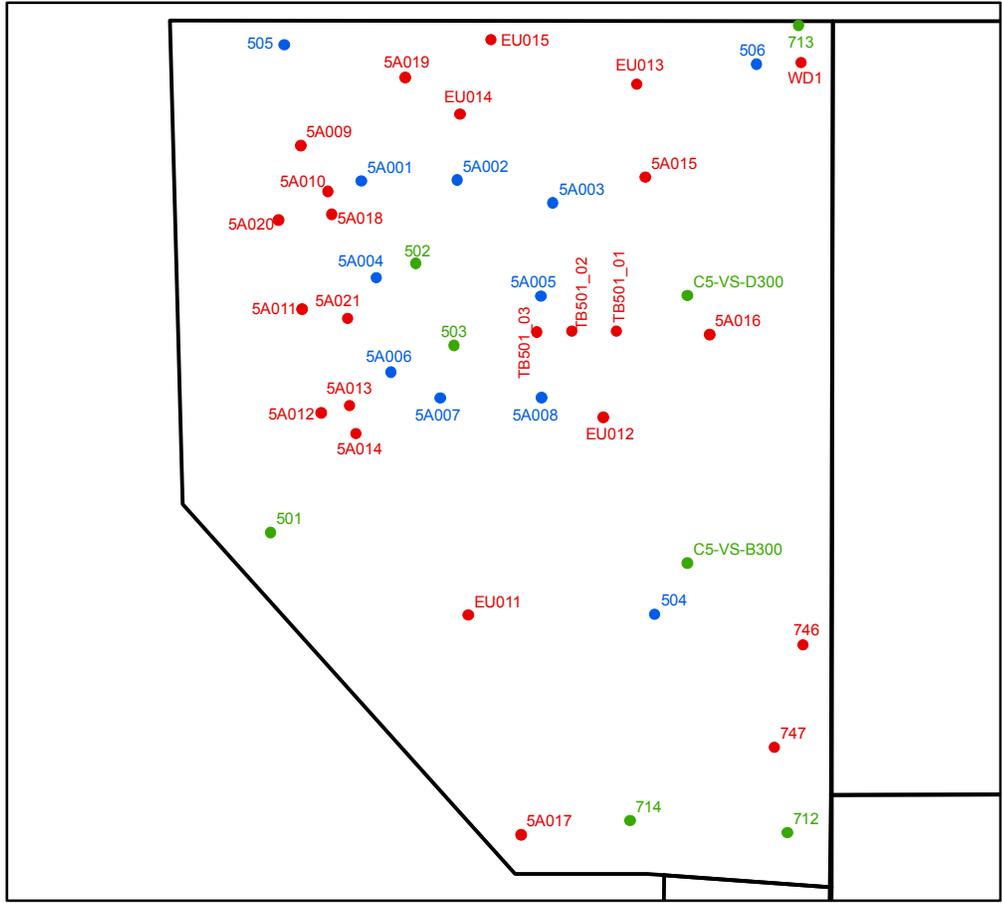
US Army Corps of Engineers
Buffalo District

SRCs - Exceeding the UTL

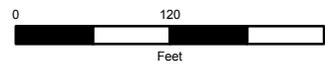
EU 1

Science Applications International Corporation Columbus, Ohio

Figure 4-2a



- Phase 1
- Phase 2
- Phase 3



US Army Corps of Engineers
Buffalo District



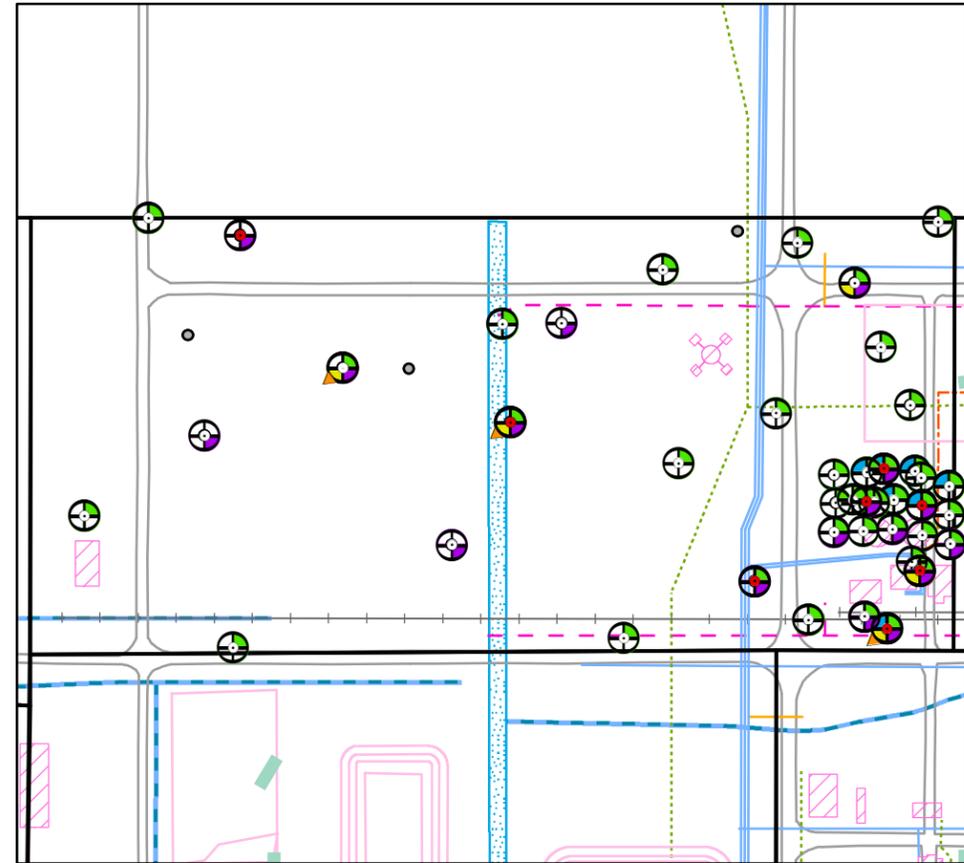
Sample Locations

EU 1

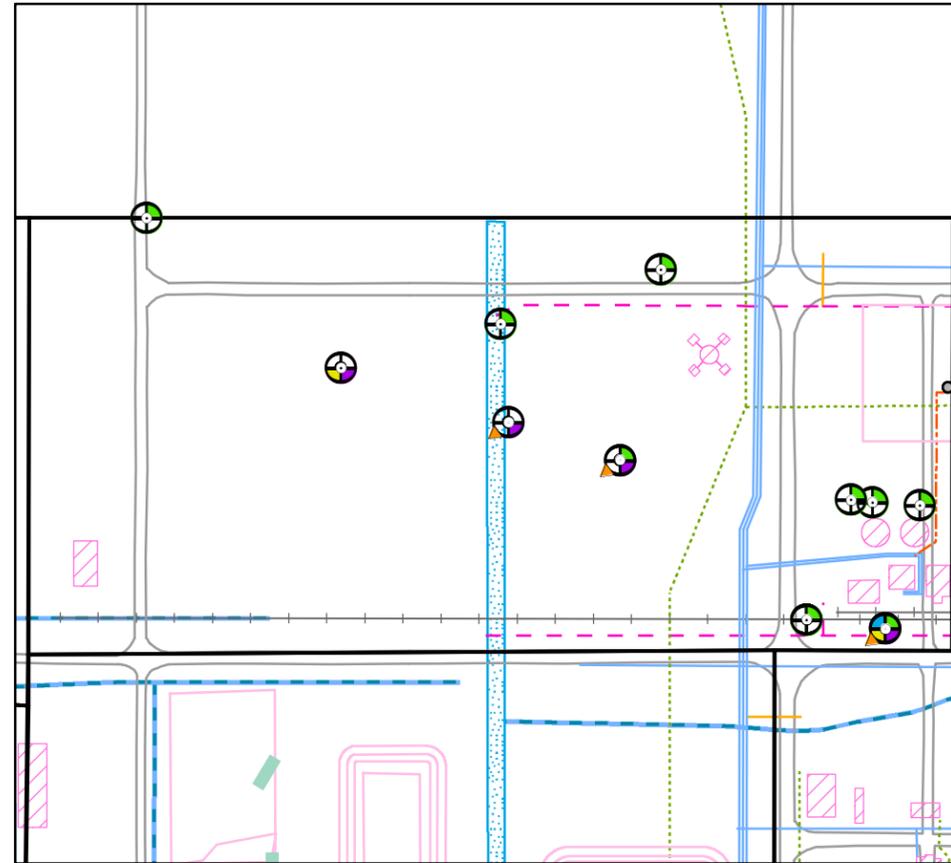
SAIC Science Applications International Corporation Columbus, Ohio

Figure 4-2b

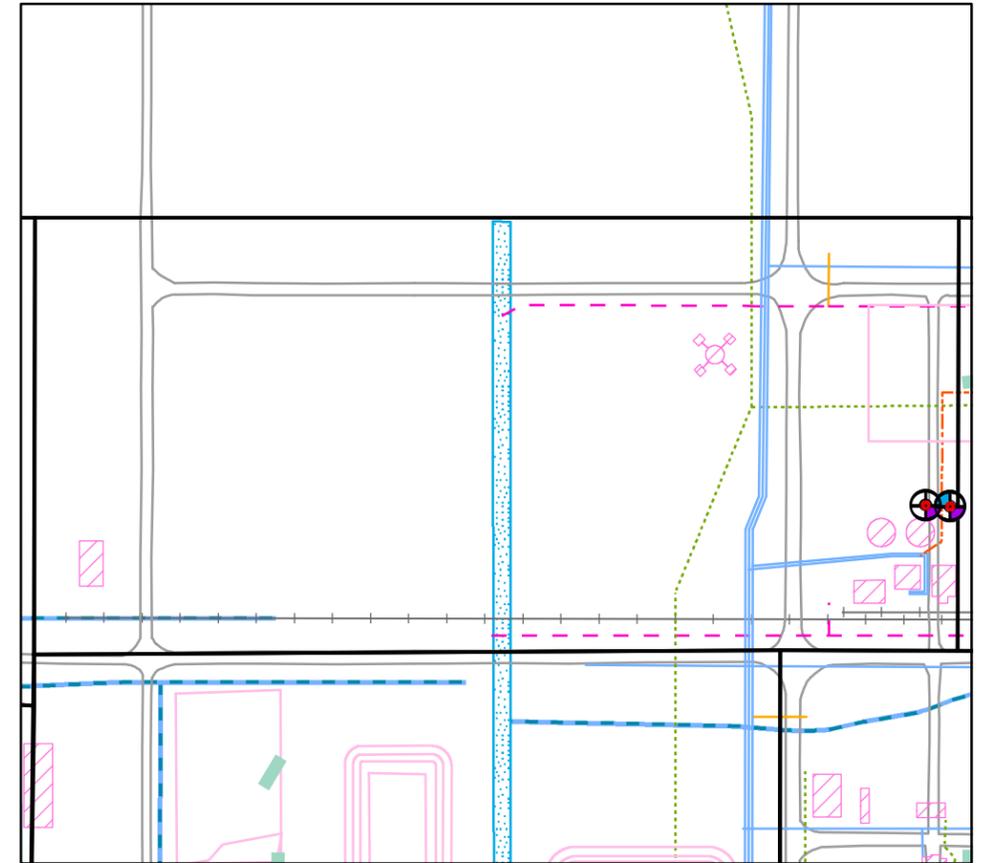
Surface Soil 0-0.5'



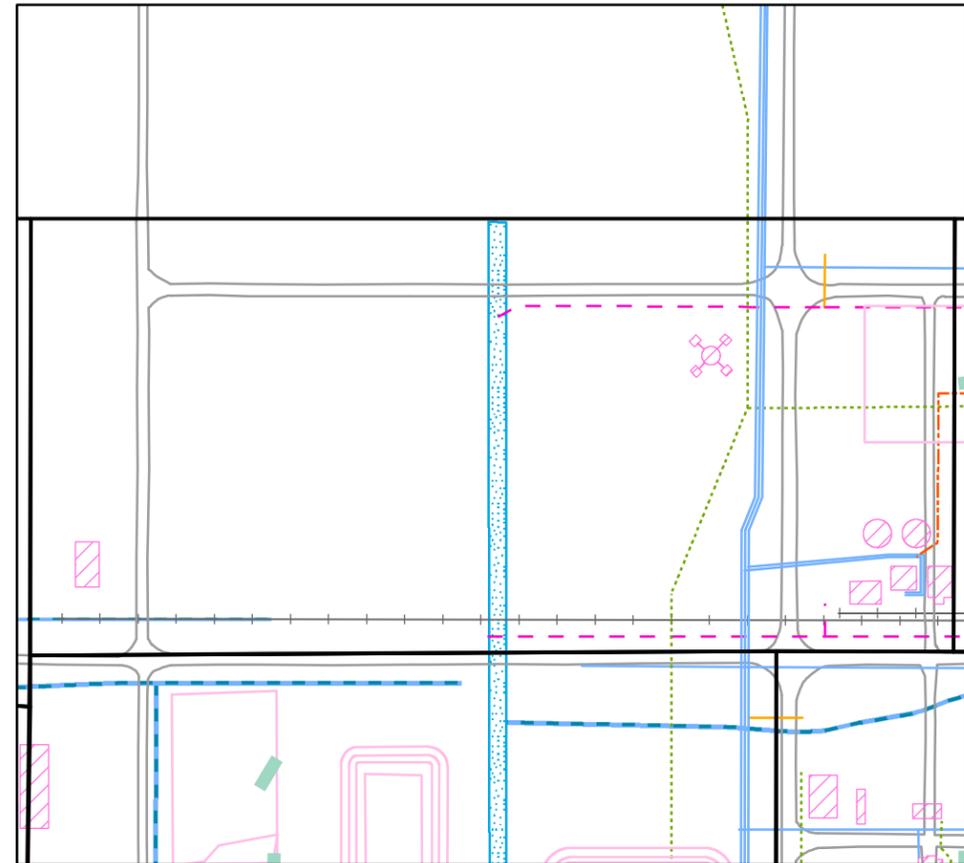
Subsurface Soil 0.5-2'



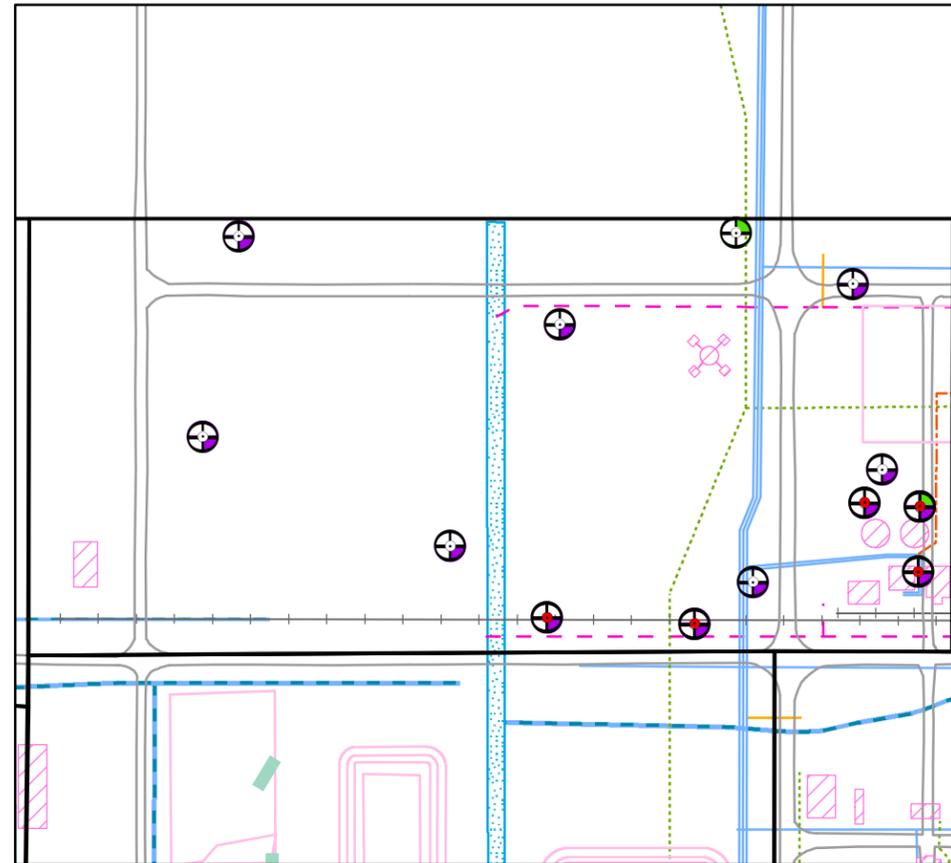
Subsurface Soil 2-5'



Subsurface Soil 5-10'

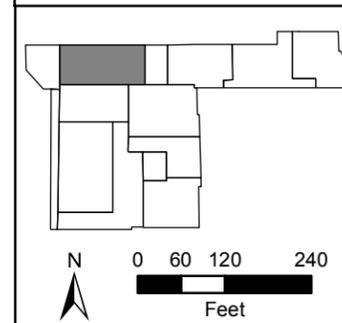


Subsurface Soil > 10'



Sitewide Legend

<ul style="list-style-type: none"> Metal PCB Pesticide Radionuclide SVOC VOC No Exceedance Structure abandoned above grade Active structure Former structure IWCS cutoff wall Test trenches 	<ul style="list-style-type: none"> Former K-65 transfer pipeline Acid sewer Water lines Culverts Fuel line Sanitary sewer Storm sewer Former remedial structures Former railroad Roads Surface water (inundated 50% of year) Ephemeral ditches EU boundary
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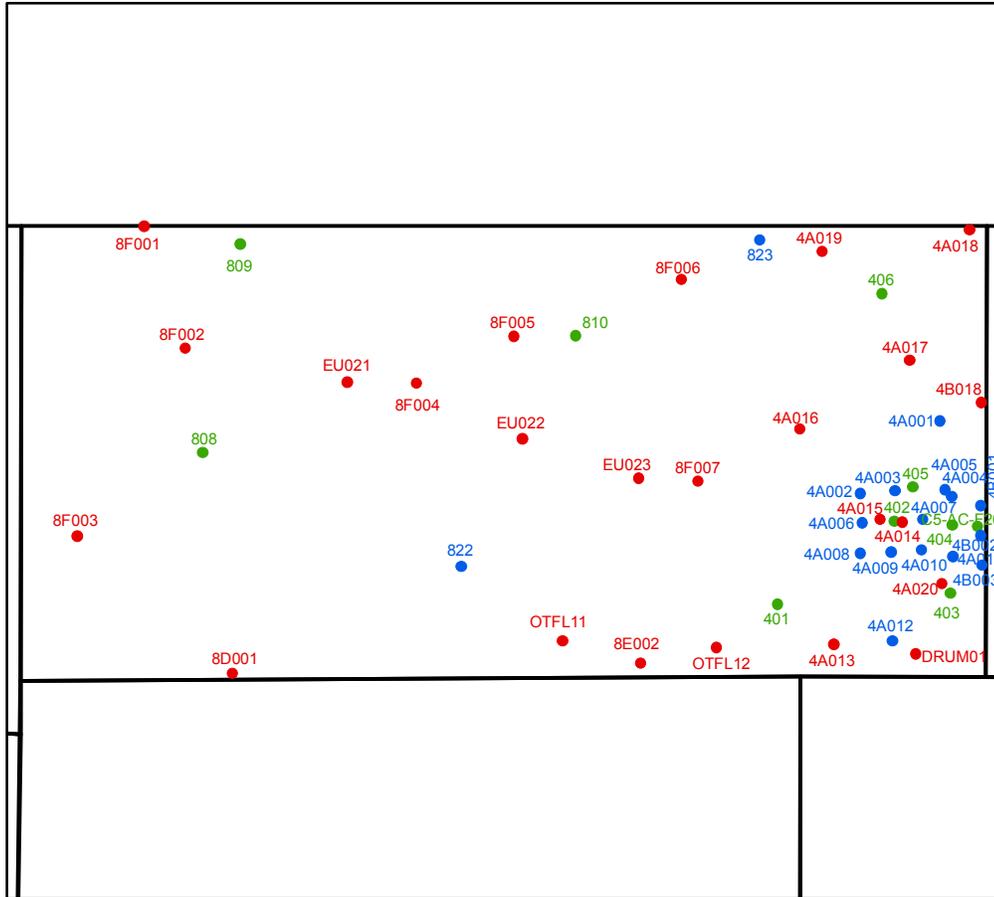
US Army Corps of Engineers
Buffalo District

SRCs - Exceeding the UTL

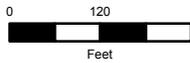
EU 2

Science Applications International Corporation Columbus, Ohio

Figure 4-3a



- Phase 1
- Phase 2
- Phase 3



US Army Corps of Engineers
Buffalo District



Sample Locations

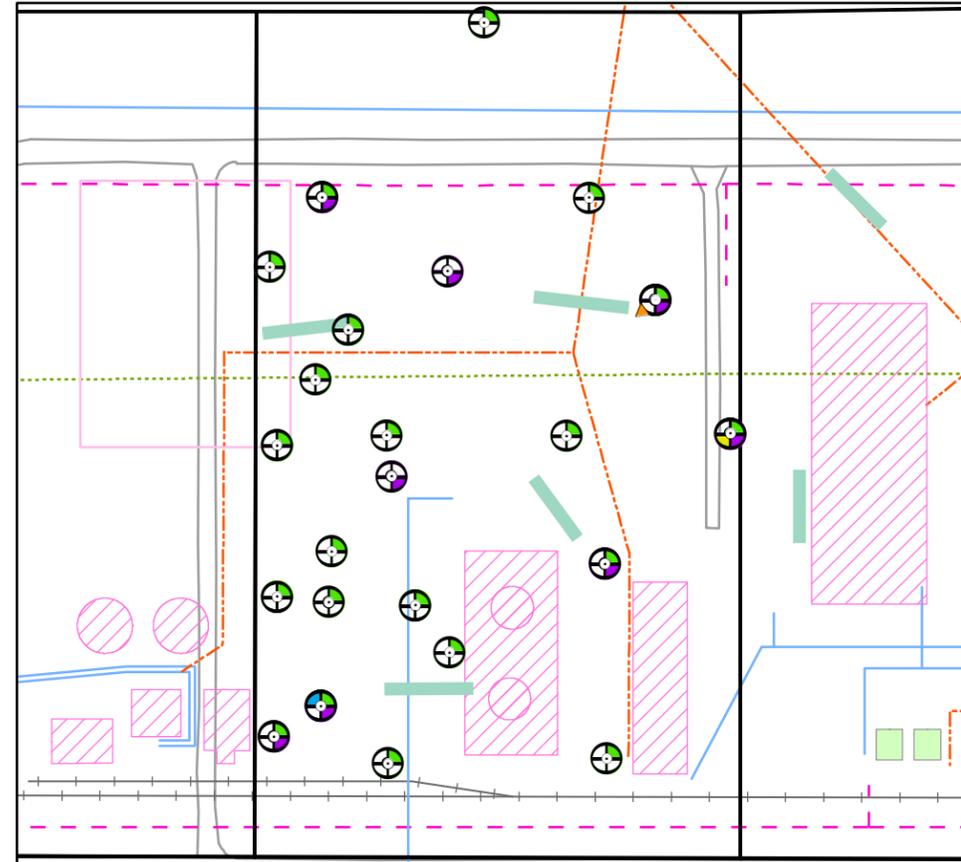
EU 2



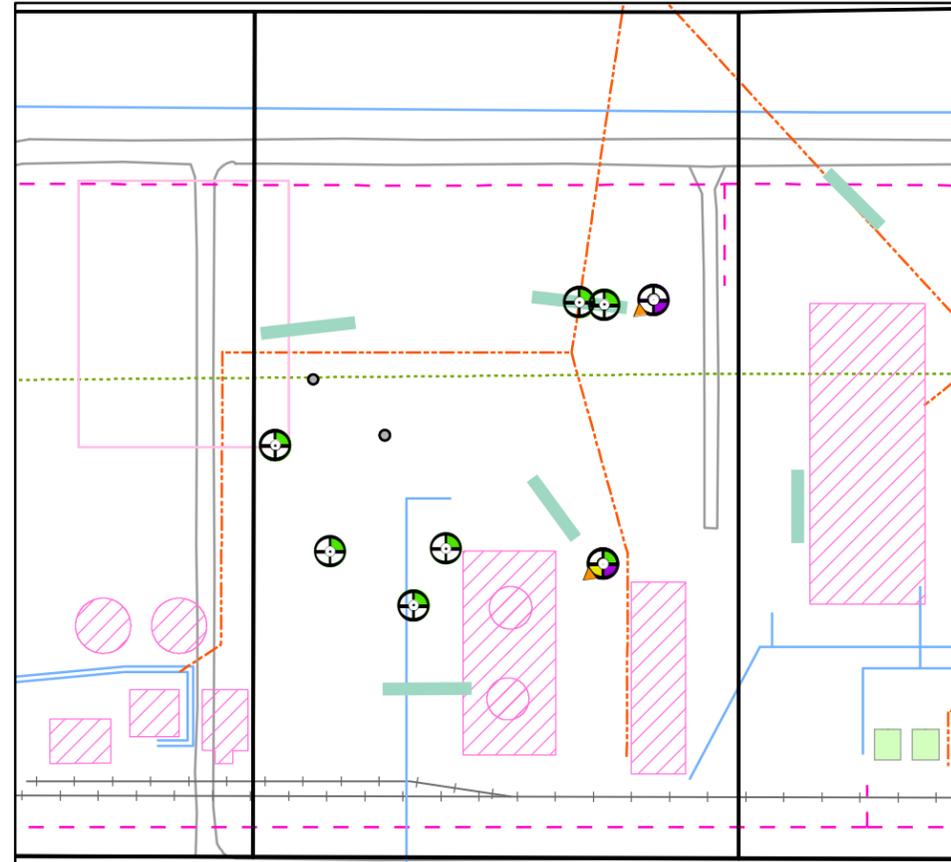
Science Applications International Corporation Columbus, Ohio

Figure 4-3b

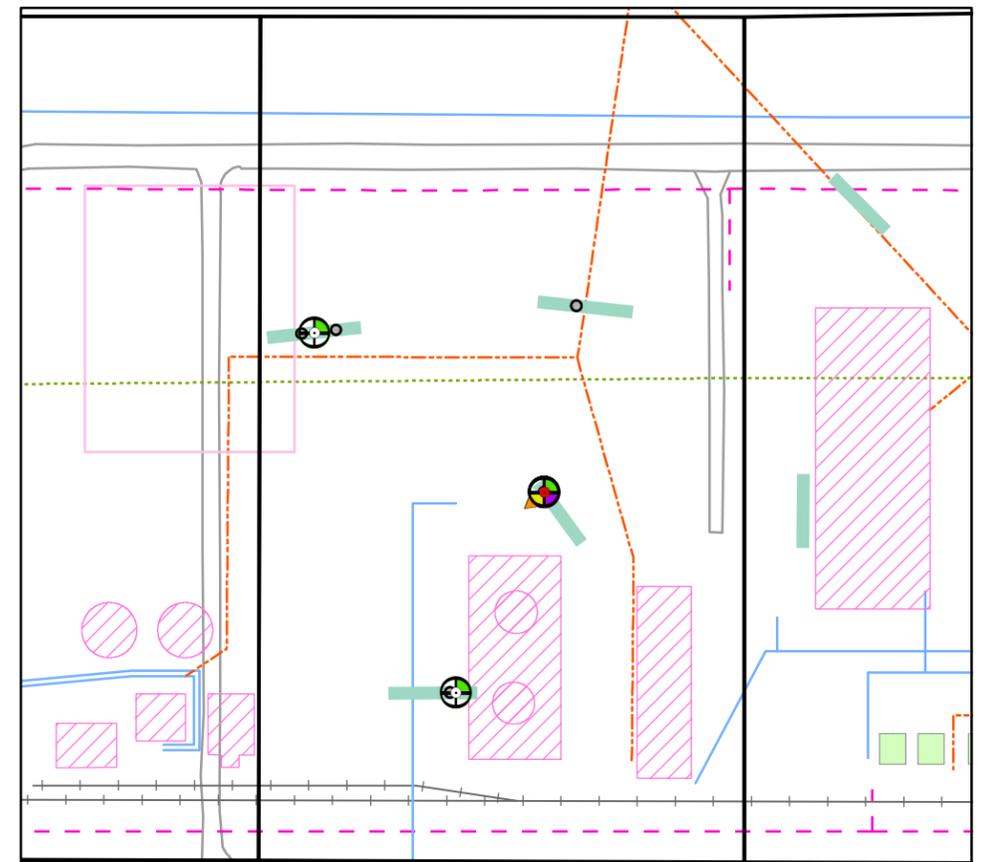
Surface Soil 0-0.5'



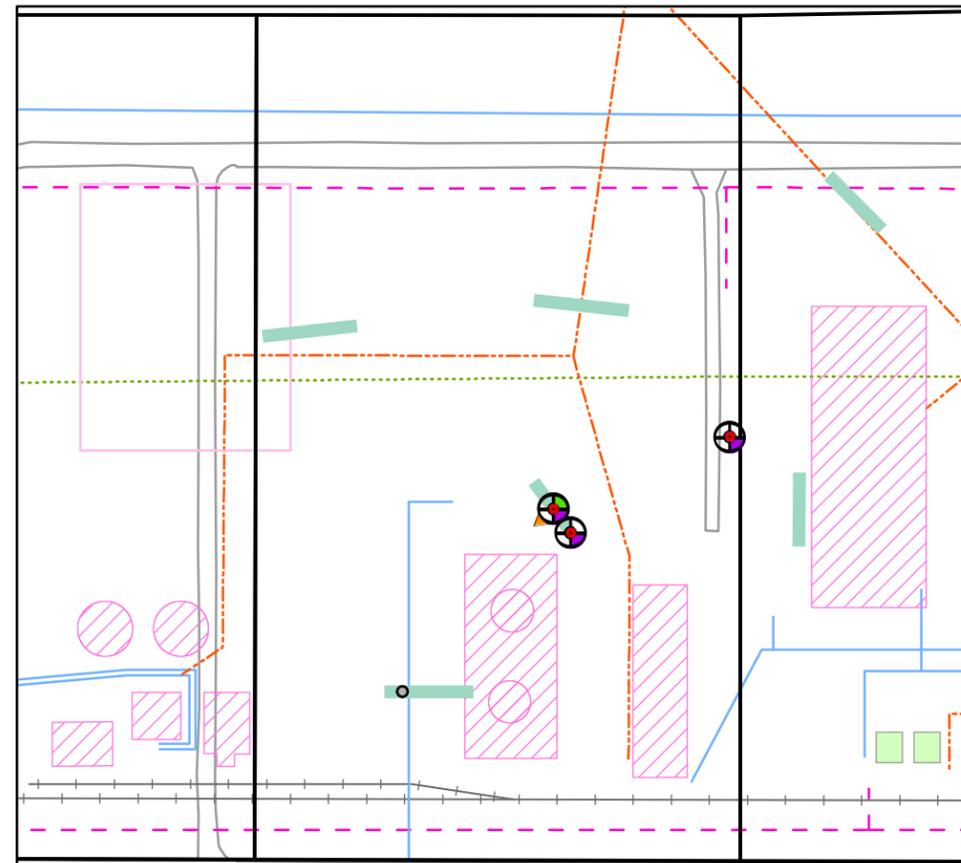
Subsurface Soil 0.5-2'



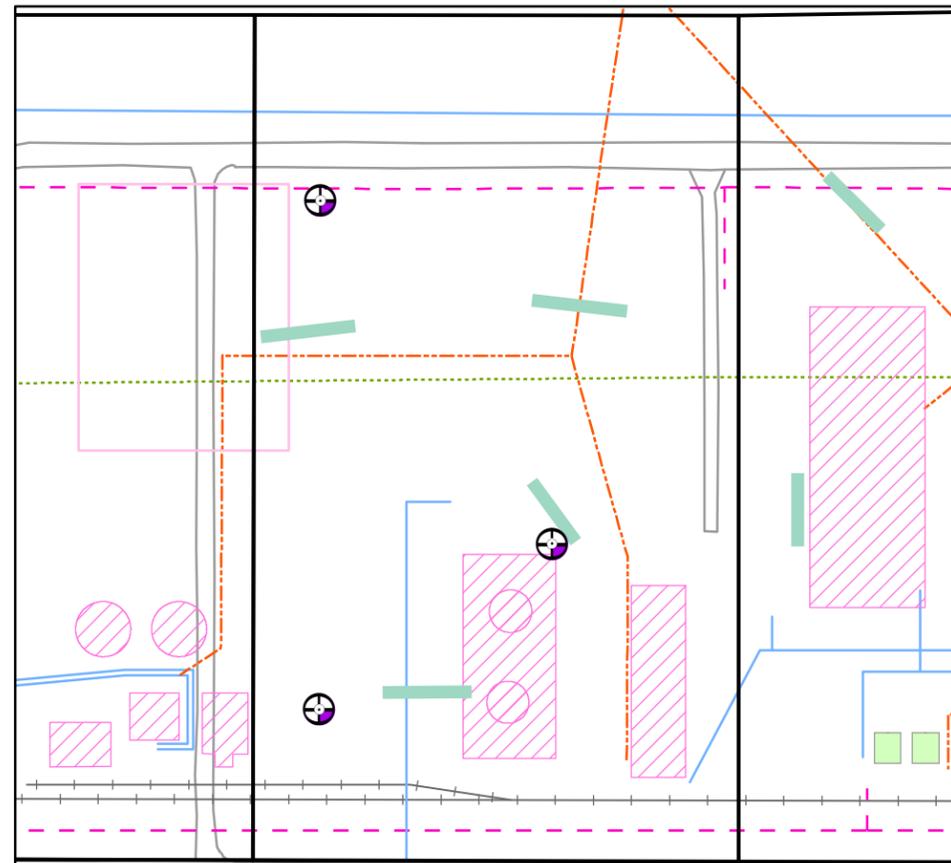
Subsurface Soil 2-5'



Subsurface Soil 5-10'



Subsurface Soil > 10'



Sitewide Legend

<ul style="list-style-type: none"> Metal PCB Pesticide Radionuclide SVOC VOC No Exceedance Structure abandoned above grade Active structure Former structure IWCS cutoff wall Test trenches 	<ul style="list-style-type: none"> Former K-65 transfer pipeline Acid sewer Water lines Culverts Fuel line Sanitary sewer Storm sewer Former remedial structures Former railroad Roads Surface water (inundated 50% of year) Ephemeral ditches EU boundary
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US Army Corps of Engineers
Buffalo District

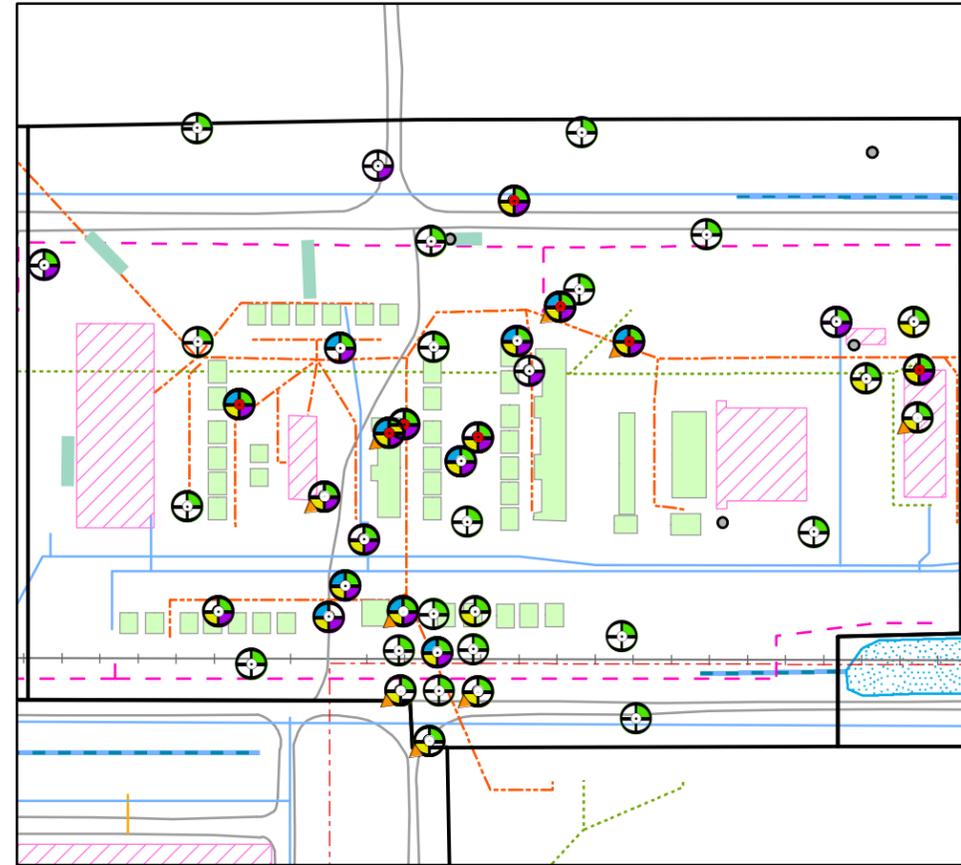
SRCs - Exceeding the UTL

EU 3

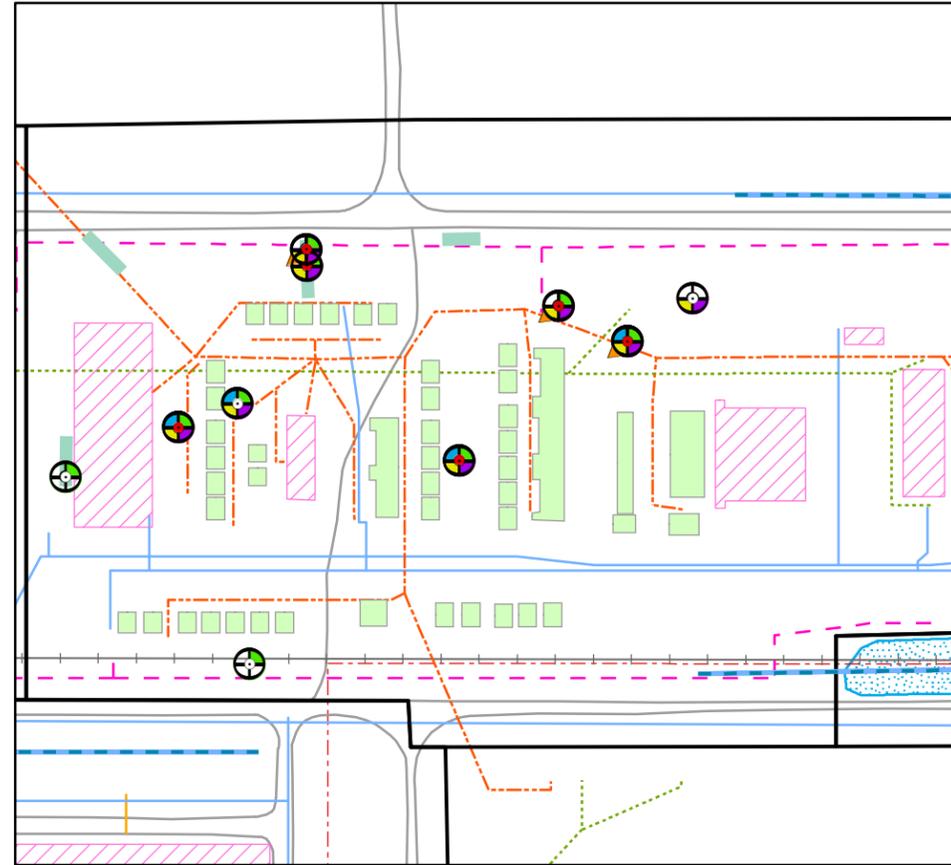
SAIC Science Applications International Corporation Columbus, Ohio

Figure 4-4a

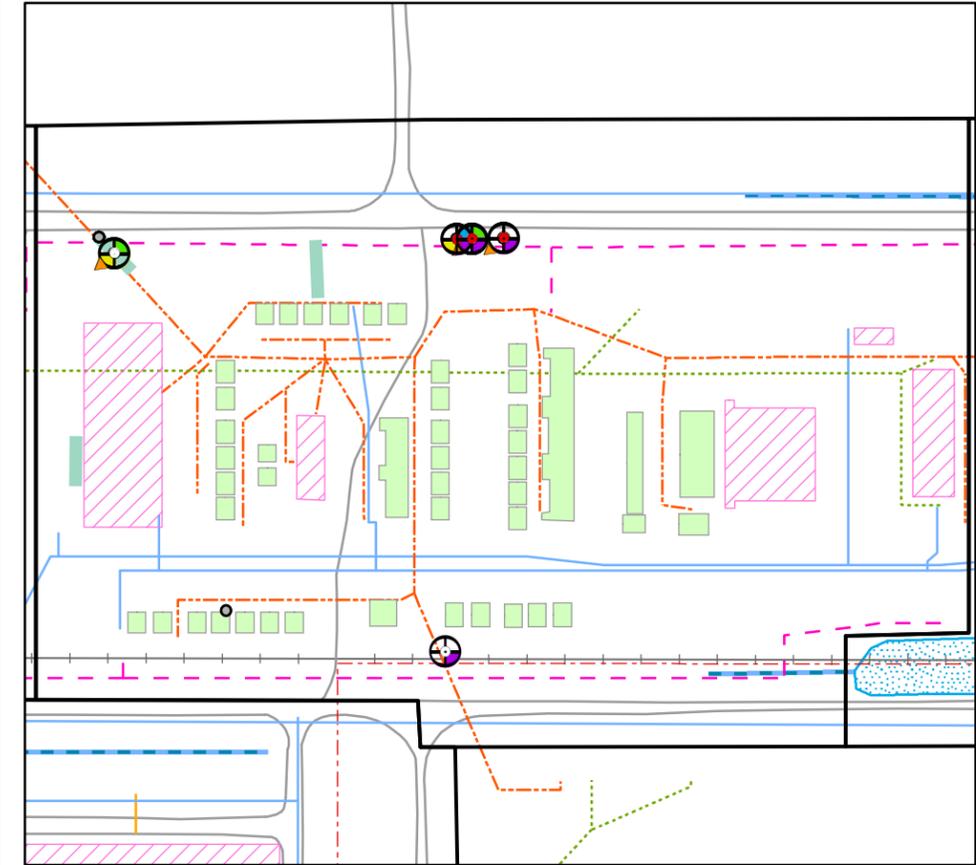
Surface Soil 0-0.5'



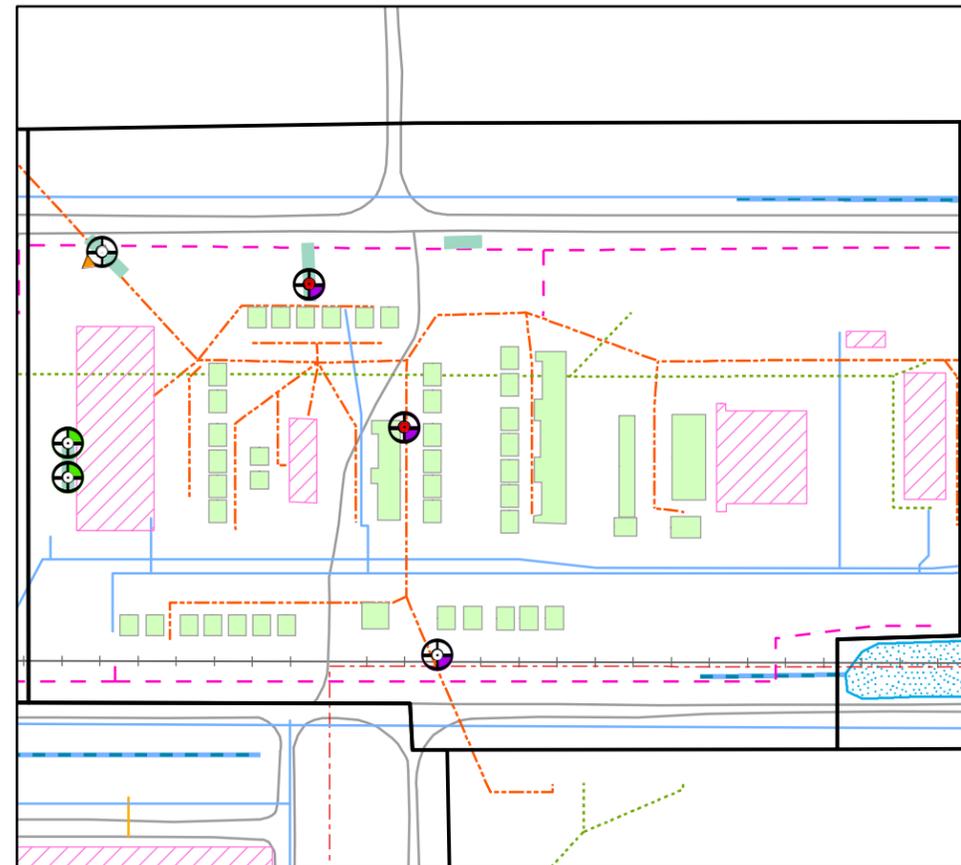
Subsurface Soil 0.5-2'



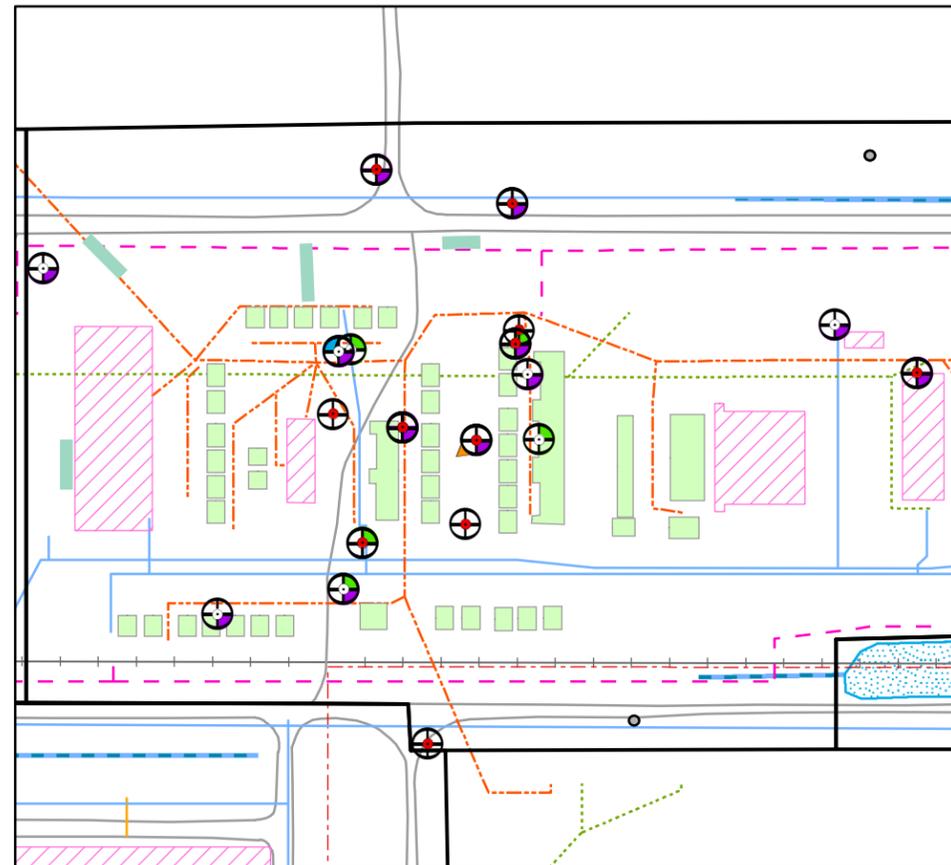
Subsurface Soil 2-5'



Subsurface Soil 5-10'



Subsurface Soil > 10'



Sitewide Legend

<ul style="list-style-type: none"> Metal PCB Pesticide Radionuclide SVOC VOC No Exceedance Structure abandoned above grade Active structure Former structure IWCS cutoff wall Test trenches 	<ul style="list-style-type: none"> Former K-65 transfer pipeline Acid sewer Water lines Culverts Fuel line Sanitary sewer Storm sewer Former remedial structures Former railroad Roads Surface water (inundated 50% of year) Ephemeral ditches EU boundary
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US Army Corps of Engineers
Buffalo District

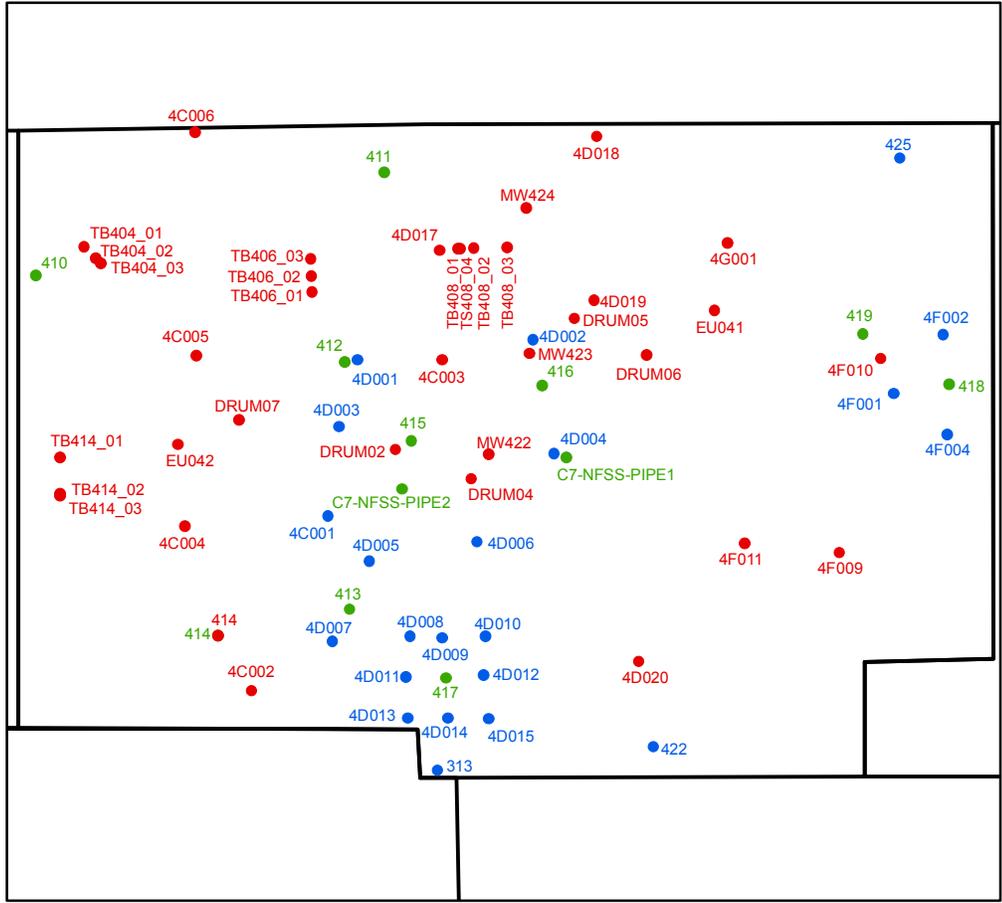
SRCs - Exceeding the UTL

EU 4

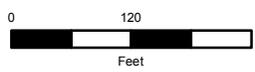
SAIC Science Applications International Corporation Columbus, Ohio

0 50 100 200
Feet

Figure 4-5a



- Phase 1
- Phase 2
- Phase 3



US Army Corps of Engineers
Buffalo District



Sample Locations

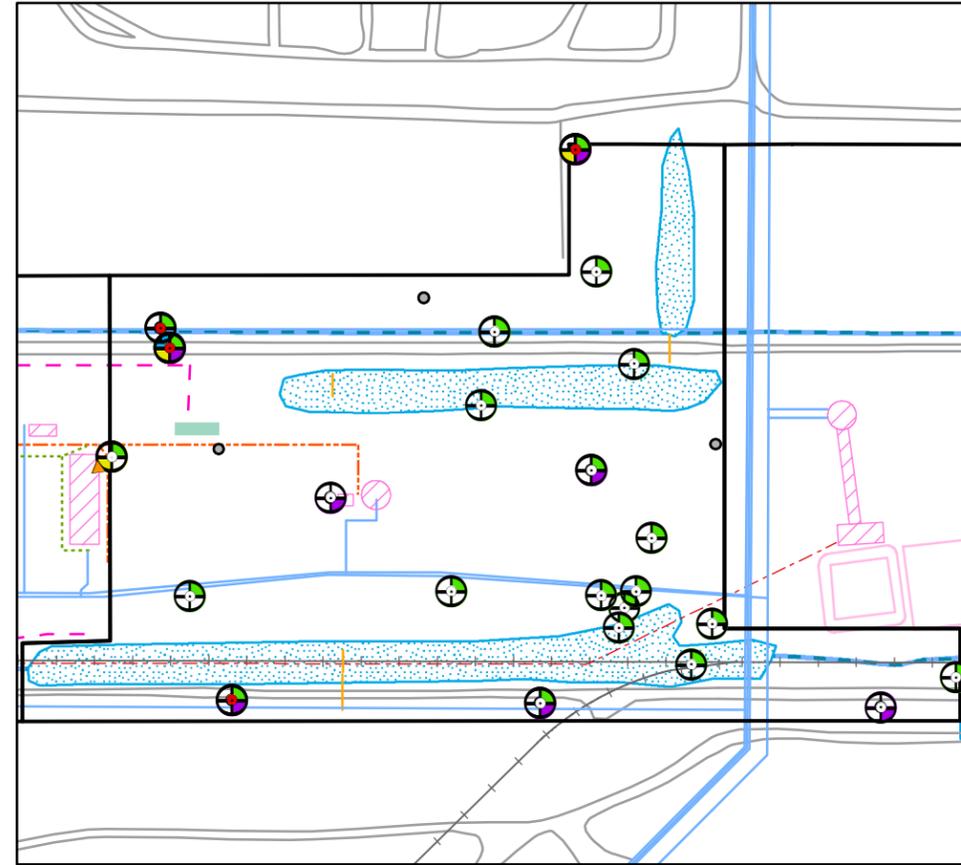
EU 4



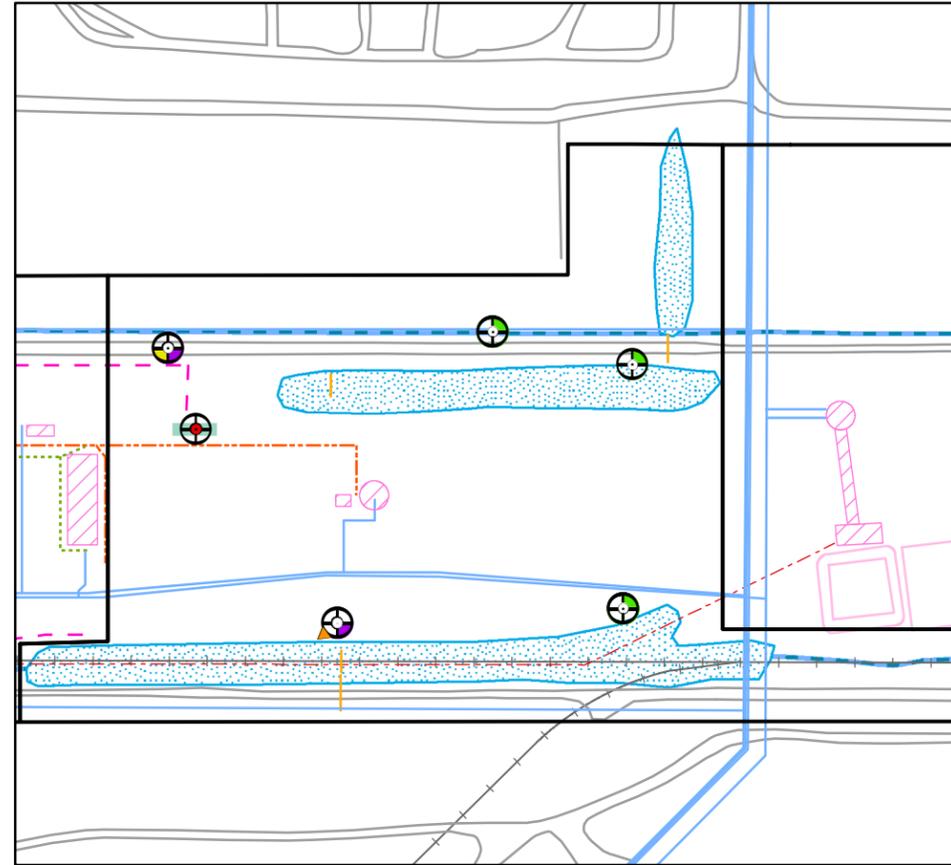
Science Applications International Corporation
Columbus, Ohio

Figure 4-5b

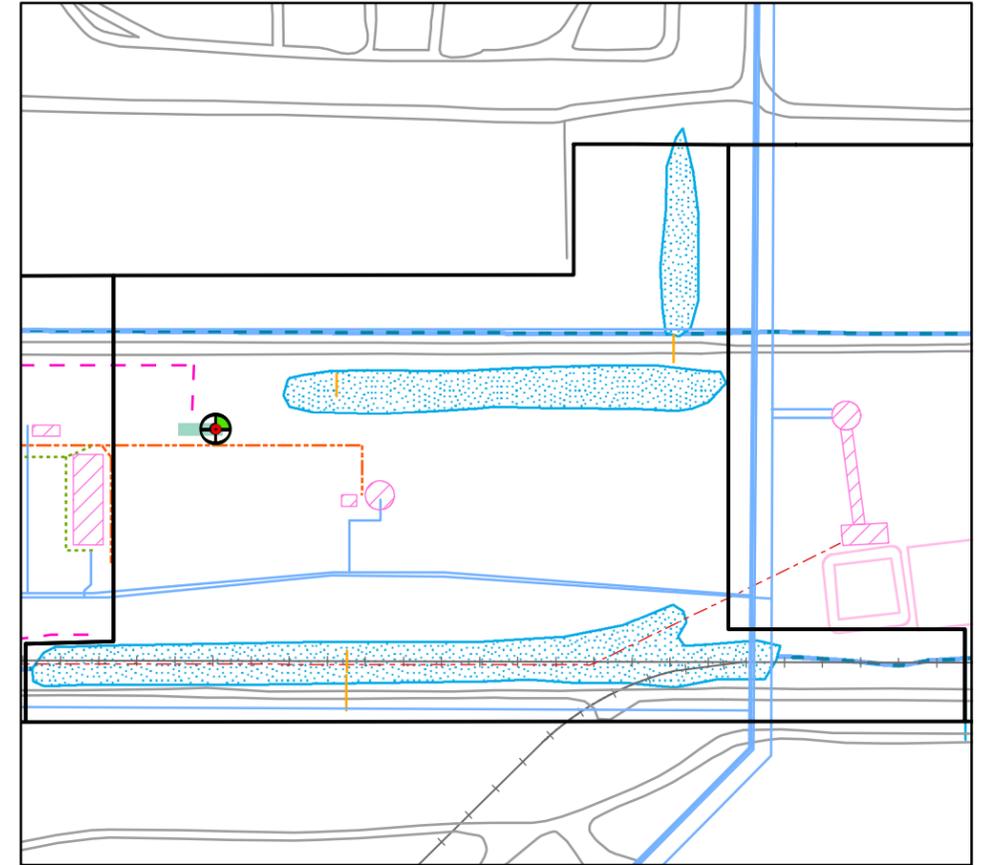
Surface Soil 0-0.5'



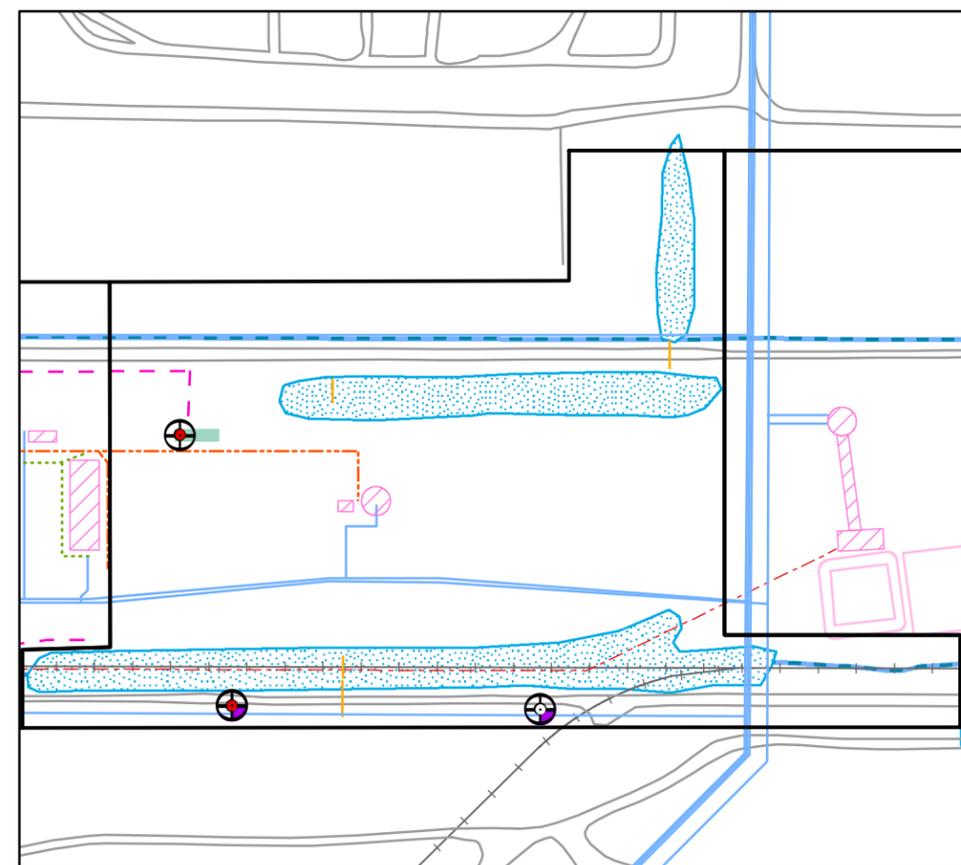
Subsurface Soil 0.5-2'



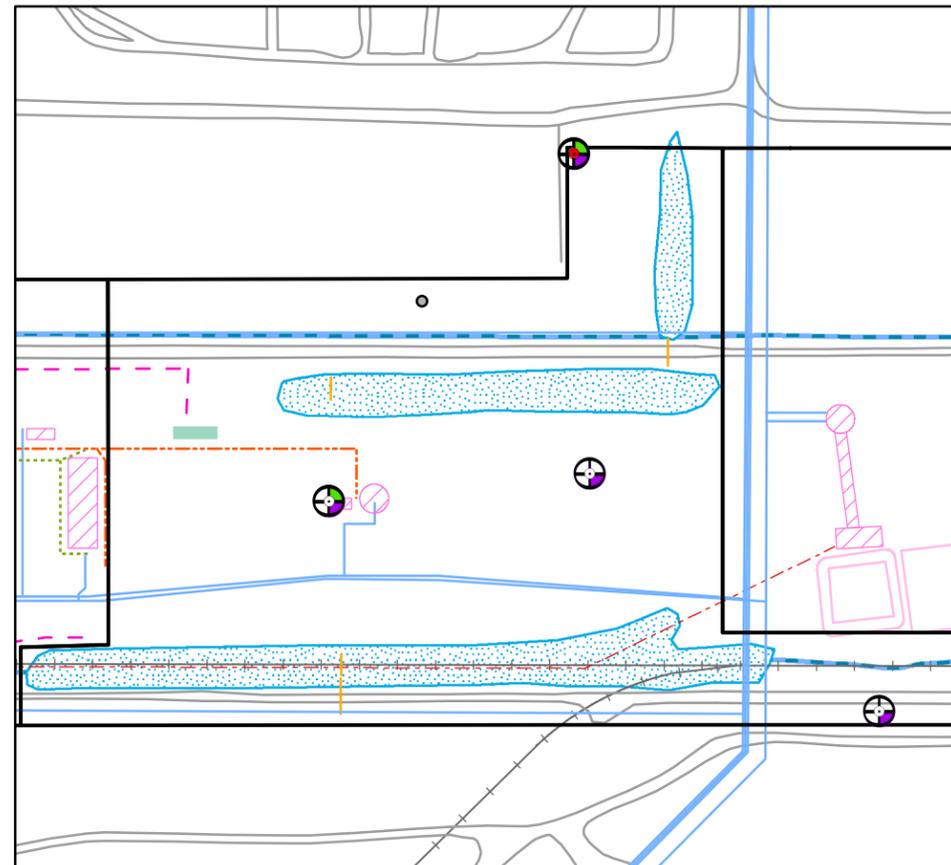
Subsurface Soil 2-5'



Subsurface Soil 5-10'



Subsurface Soil > 10'



Sitewide Legend

<ul style="list-style-type: none"> Metal PCB Pesticide Radionuclide SVOC VOC No Exceedance Structure abandoned above grade Active structure Former structure IWCS cutoff wall Test trenches 	<ul style="list-style-type: none"> Former K-65 transfer pipeline Acid sewer Water lines Culverts Fuel line Sanitary sewer Storm sewer Former remedial structures Former railroad Roads Surface water (inundated 50% of year) Ephemeral ditches EU boundary
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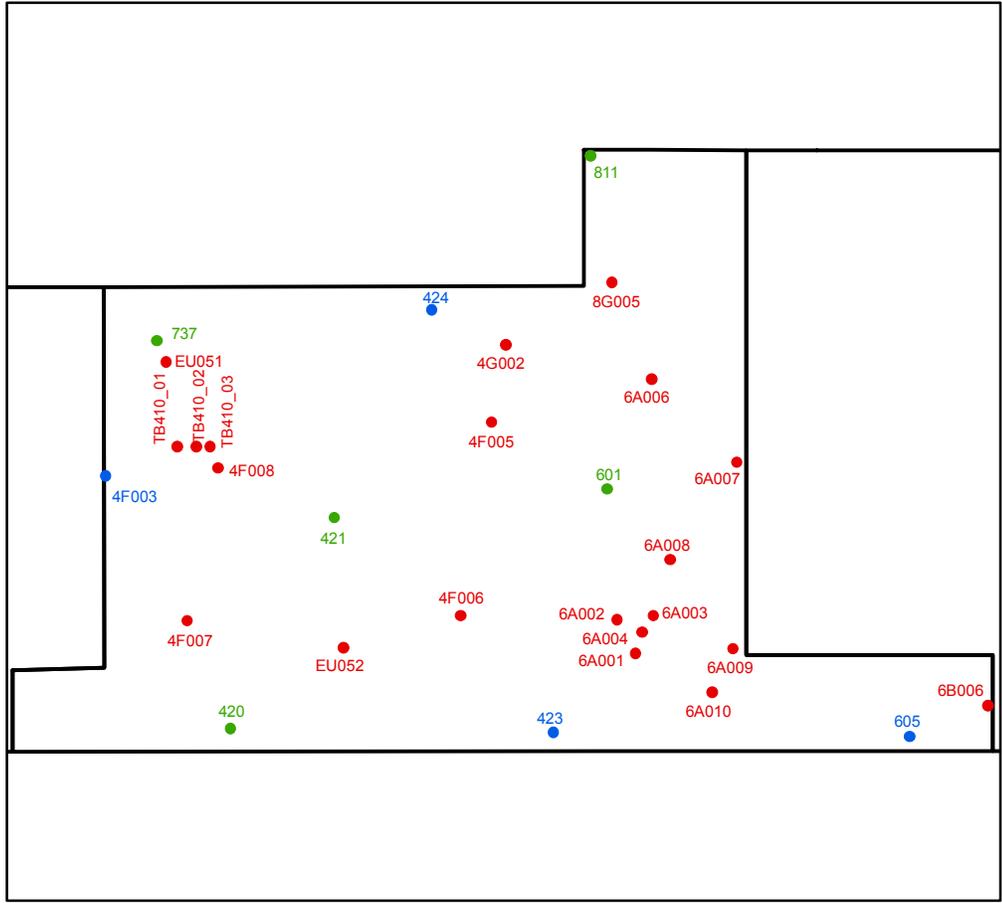
US Army Corps of Engineers Buffalo District

SRCs - Exceeding the UTL

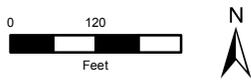
EU 5

Science Applications International Corporation Columbus, Ohio

Figure 4-6a



- Phase 1
- Phase 2
- Phase 3



US Army Corps of Engineers
Buffalo District



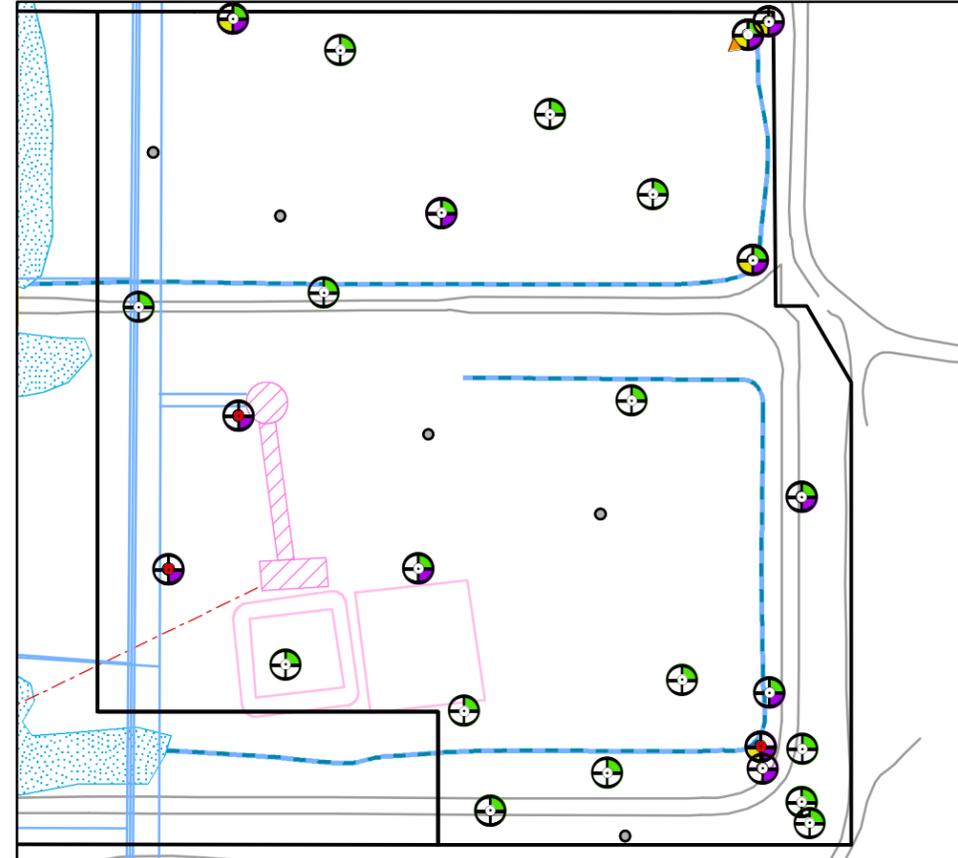
Sample Locations

EU 5

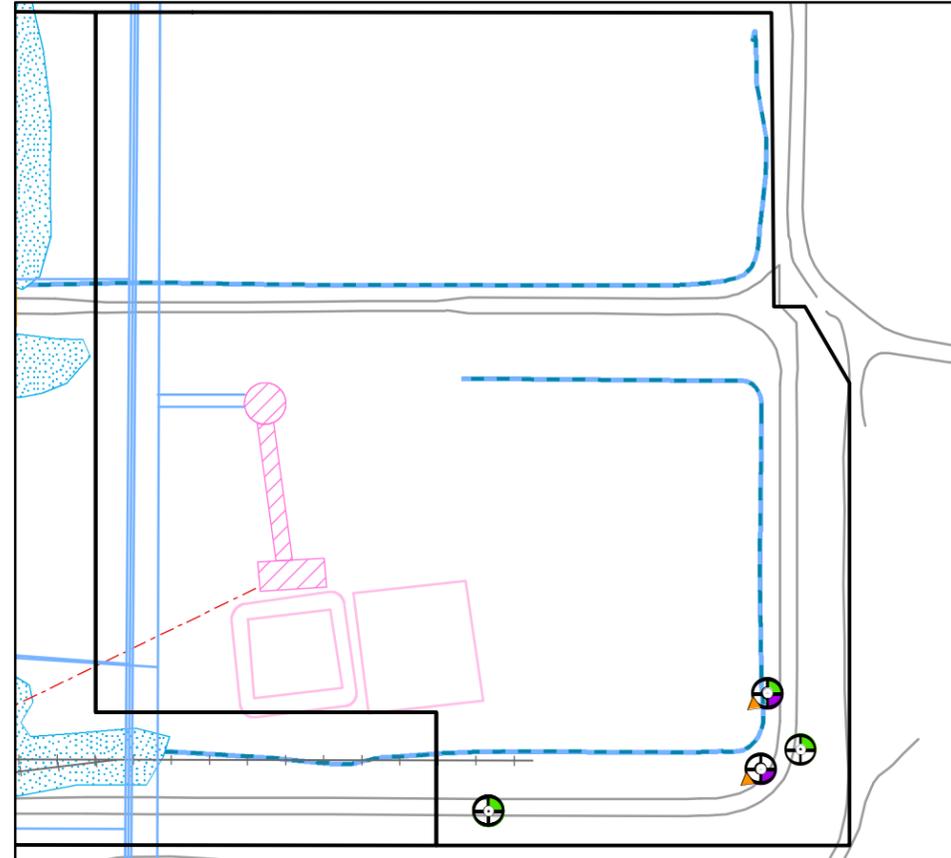
SAIC Science Applications International Corporation Columbus, Ohio

Figure 4-6b

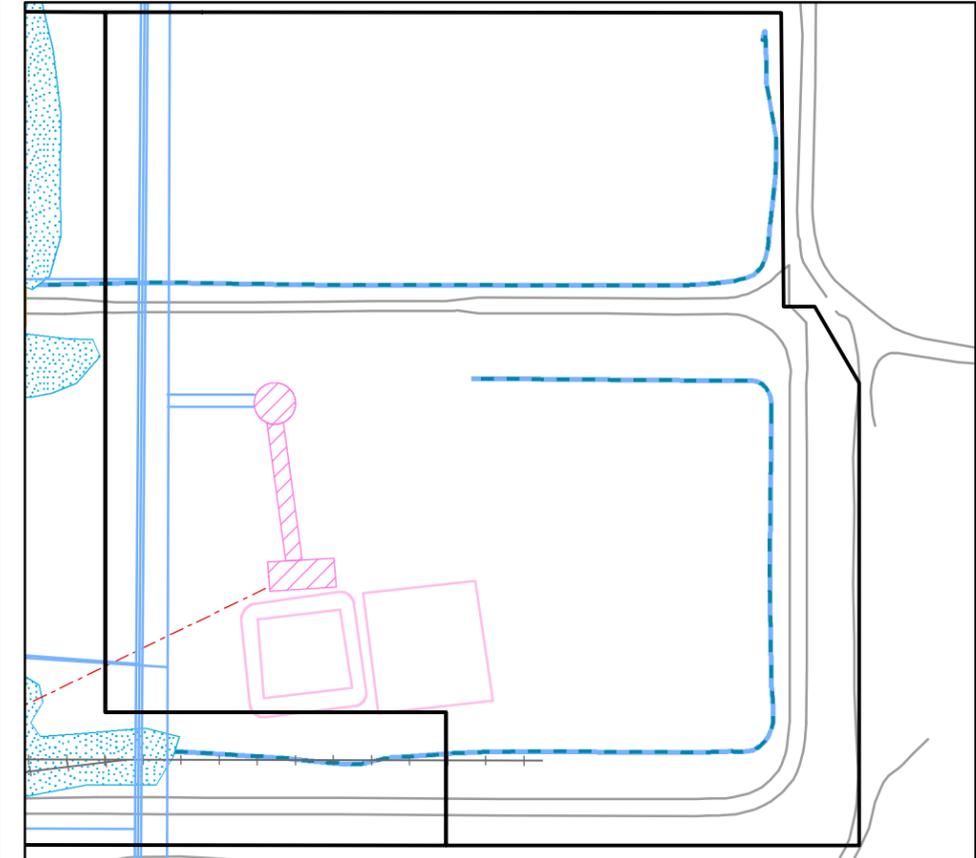
Surface Soil 0-0.5'



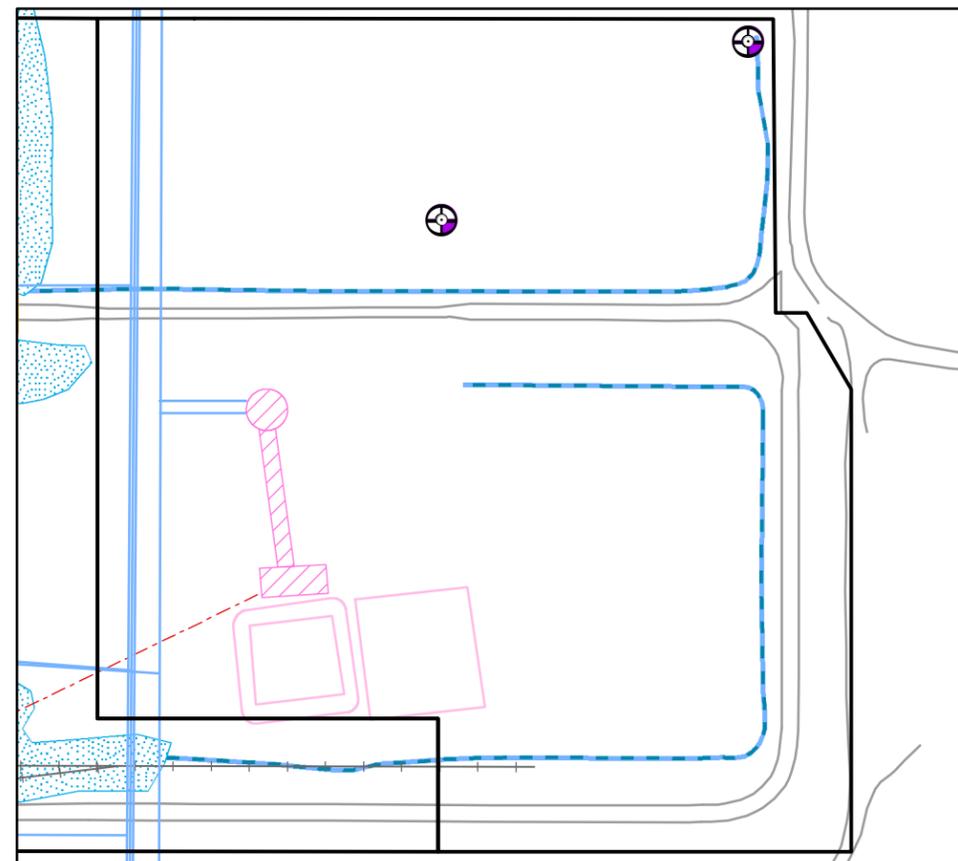
Subsurface Soil 0.5-2'



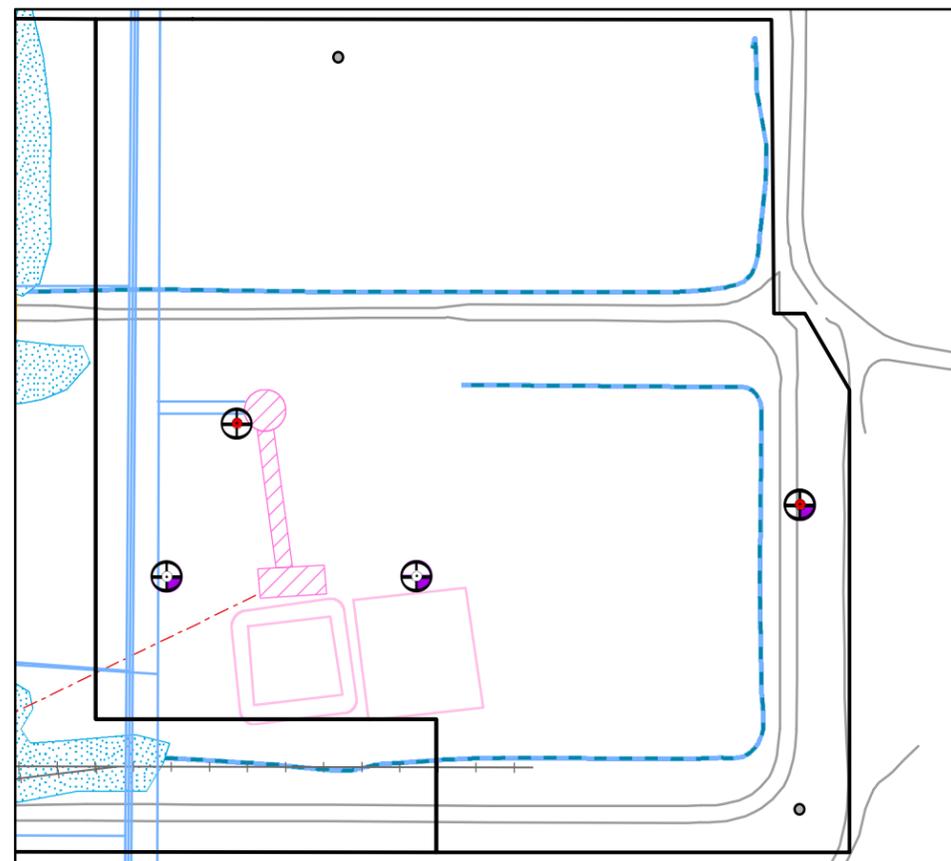
Subsurface Soil 2-5'



Subsurface Soil 5-10'



Subsurface Soil > 10'



Sitewide Legend

	Metal		Former K-65 transfer pipeline
	PCB		Acid sewer
	Pesticide		Water lines
	Radionuclide		Culverts
	SVOC		Fuel line
	VOC		Sanitary sewer
	No Exceedance		Storm sewer
	Structure abandoned above grade		Former remedial structures
	Active structure		Former railroad
	Former structure		Roads
	IWCS cutoff wall		Surface water (inundated 50% of year)
	Test trenches		Ephemeral ditches
			EU boundary



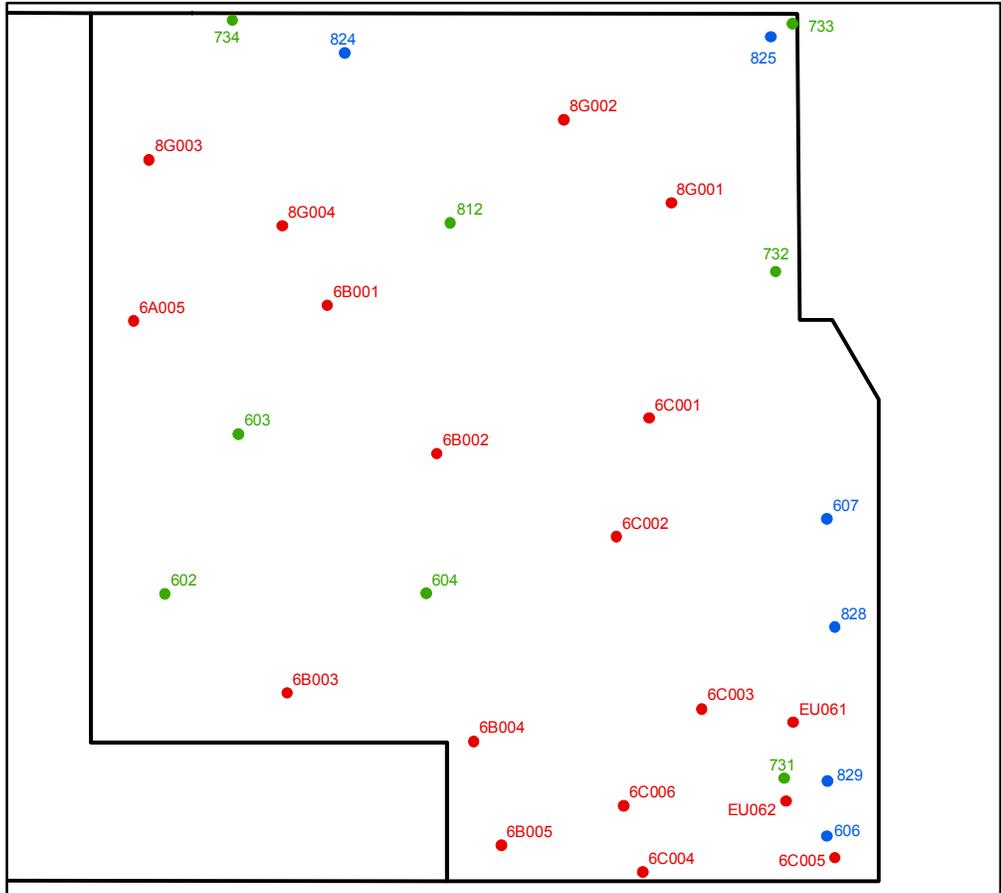
US Army Corps of Engineers
Buffalo District

SRCs - Exceeding the UTL

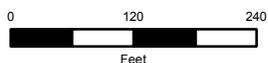
EU 6

SAIC Science Applications International Corporation Columbus, Ohio

Figure 4-7a



- Phase 1
- Phase 2
- Phase 3



US Army Corps of Engineers
Buffalo District



Sample Locations

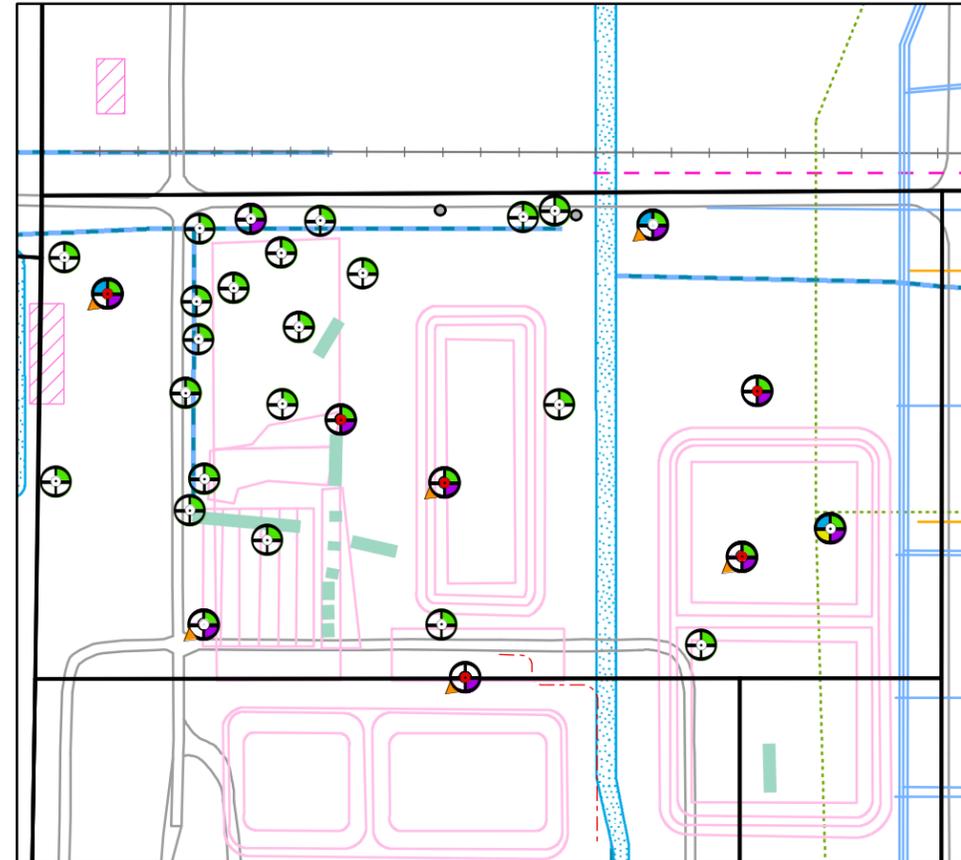
EU 6



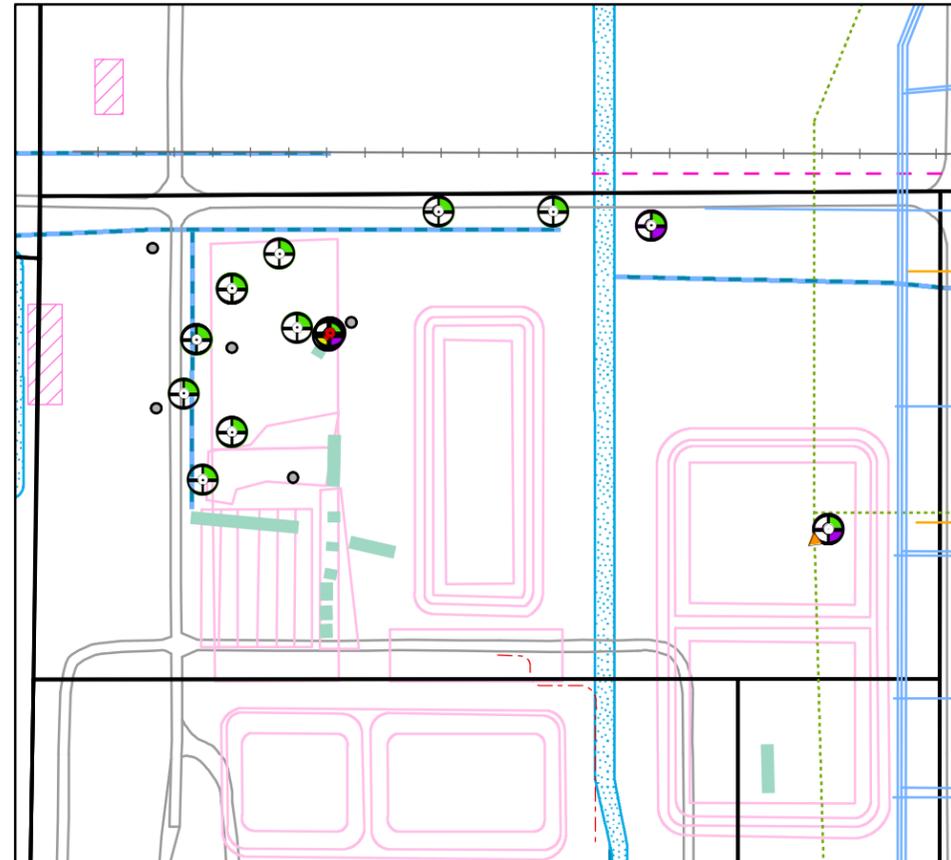
Science Applications International Corporation
Columbus, Ohio

Figure 4-7b

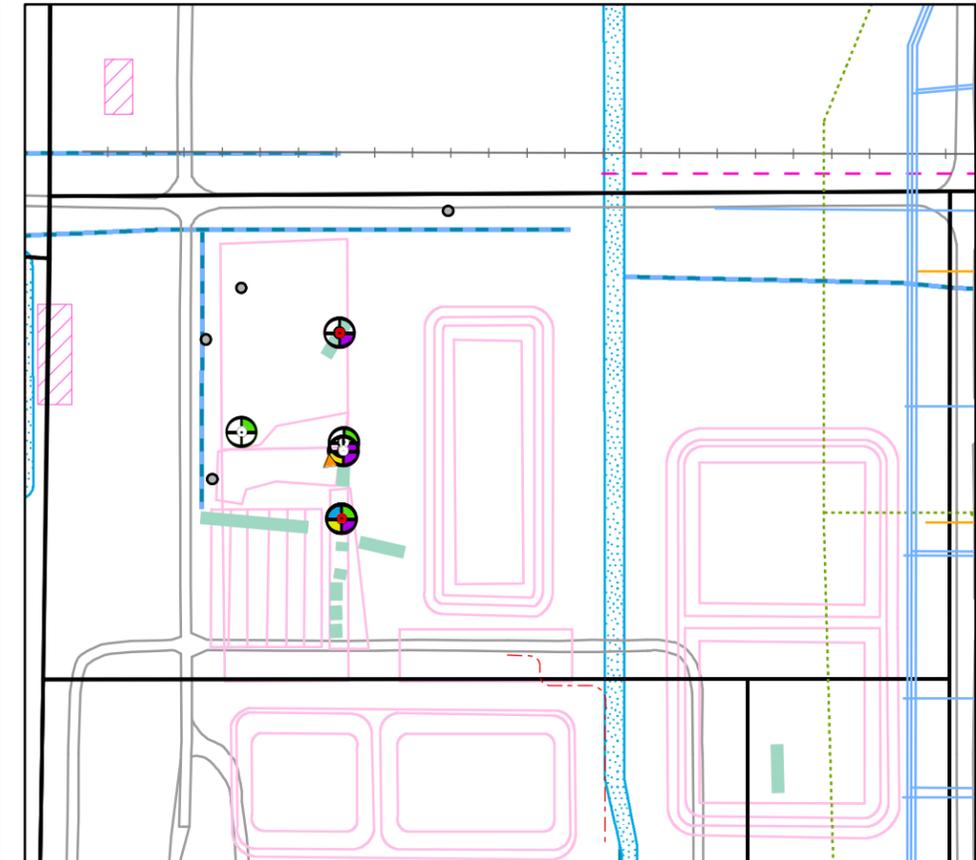
Surface Soil 0-0.5'



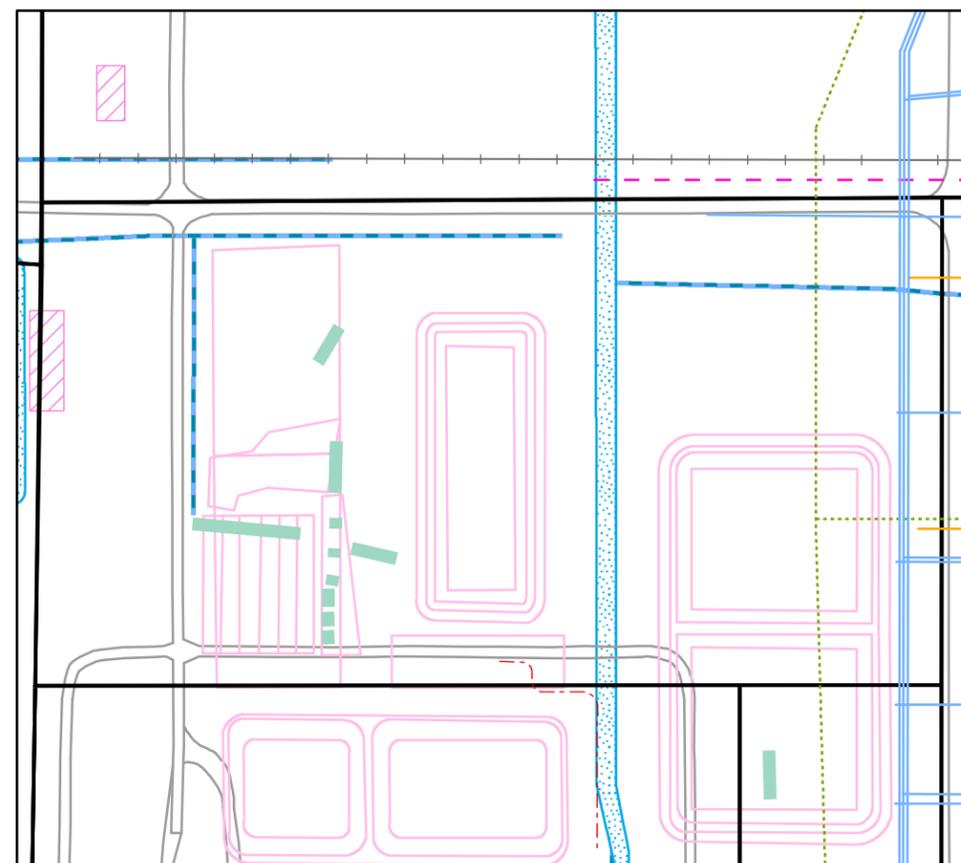
Subsurface Soil 0.5-2'



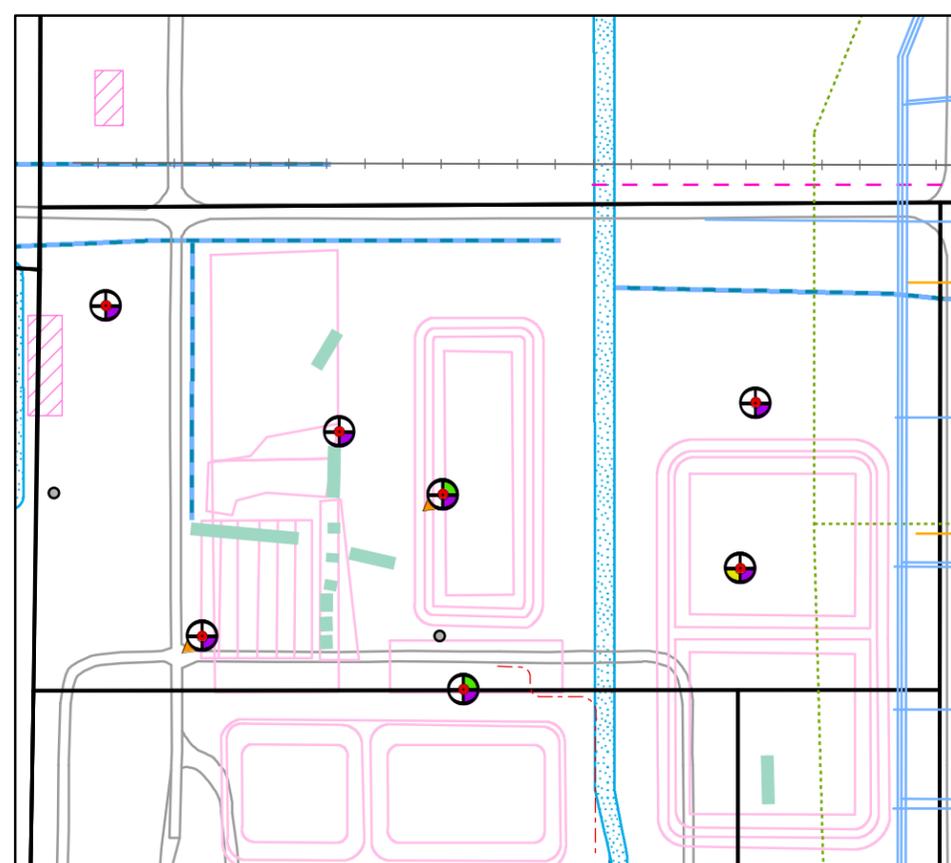
Subsurface Soil 2-5'



Subsurface Soil 5-10'



Subsurface Soil > 10'



Sitewide Legend

<ul style="list-style-type: none"> Metal PCB Pesticide Radionuclide SVOC VOC No Exceedance Structure abandoned above grade Active structure Former structure IWCS cutoff wall Test trenches 	<ul style="list-style-type: none"> Former K-65 transfer pipeline Acid sewer Water lines Culverts Fuel line Sanitary sewer Storm sewer Former remedial structures Former railroad Roads Surface water (inundated 50% of year) Ephemeral ditches EU boundary
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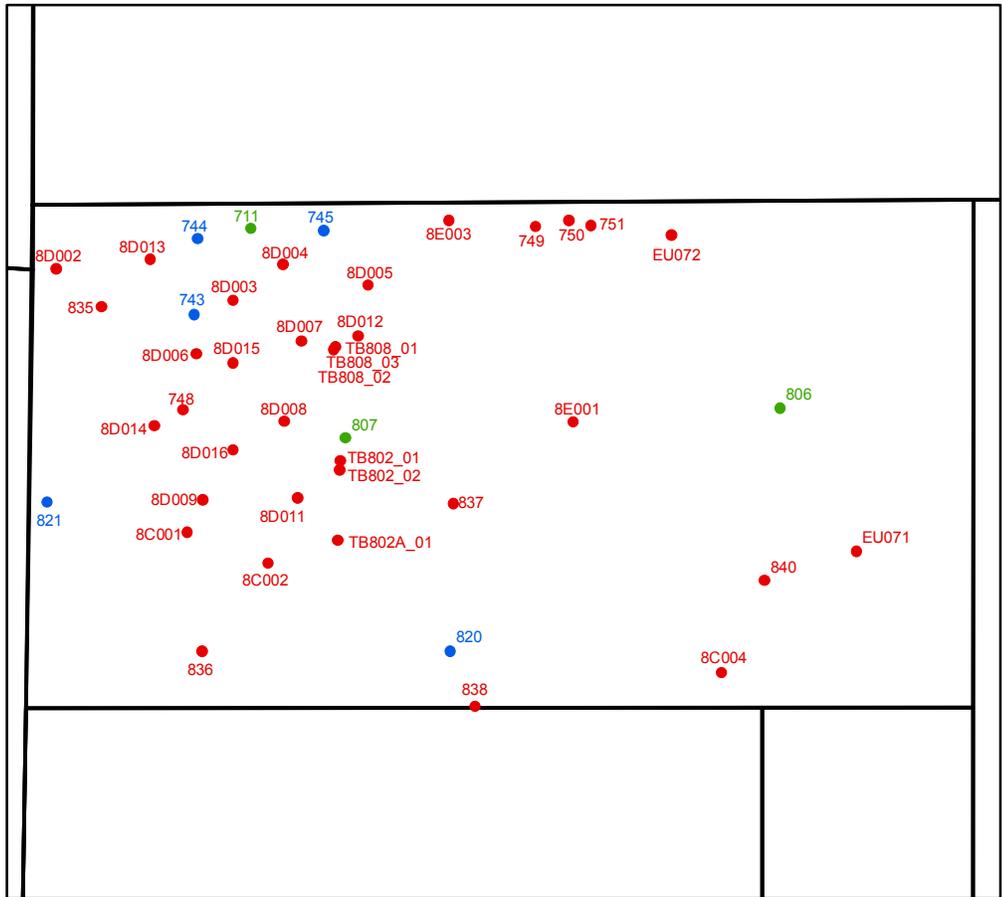
US Army Corps of Engineers Buffalo District

SRCs - Exceeding the UTL

EU 7

Science Applications International Corporation Columbus, Ohio

Figure 4-8a



- Phase 1
- Phase 2
- Phase 3



US Army Corps of Engineers
Buffalo District



Sample Locations

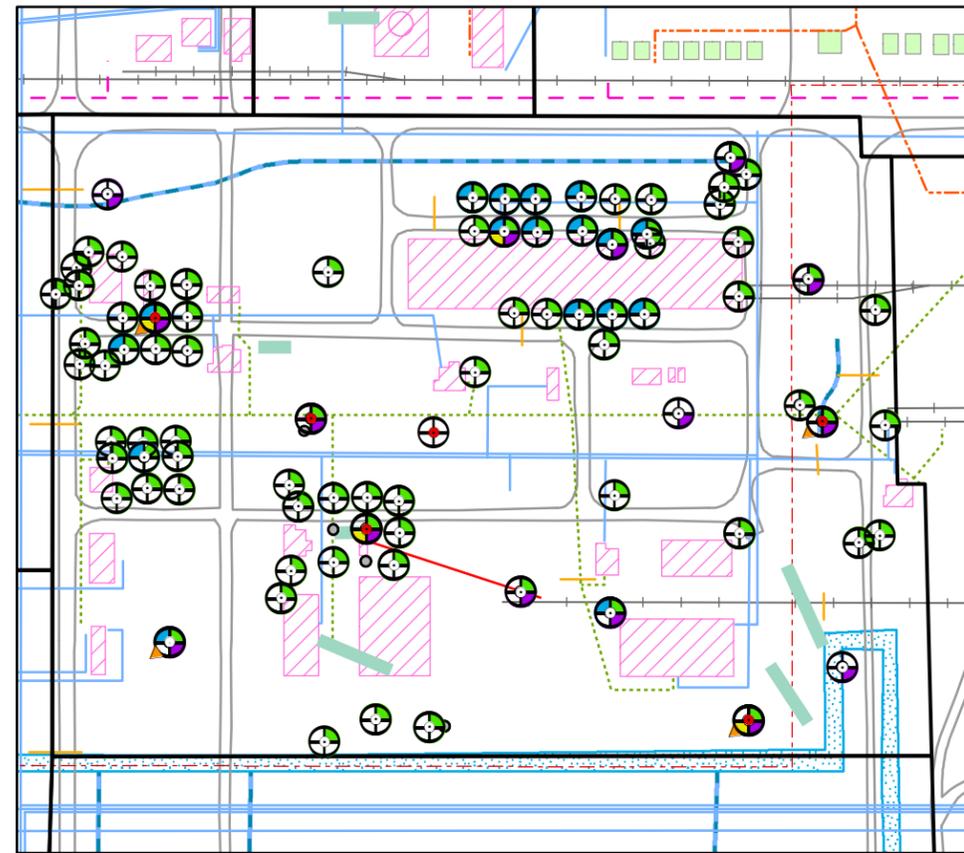
EU 7



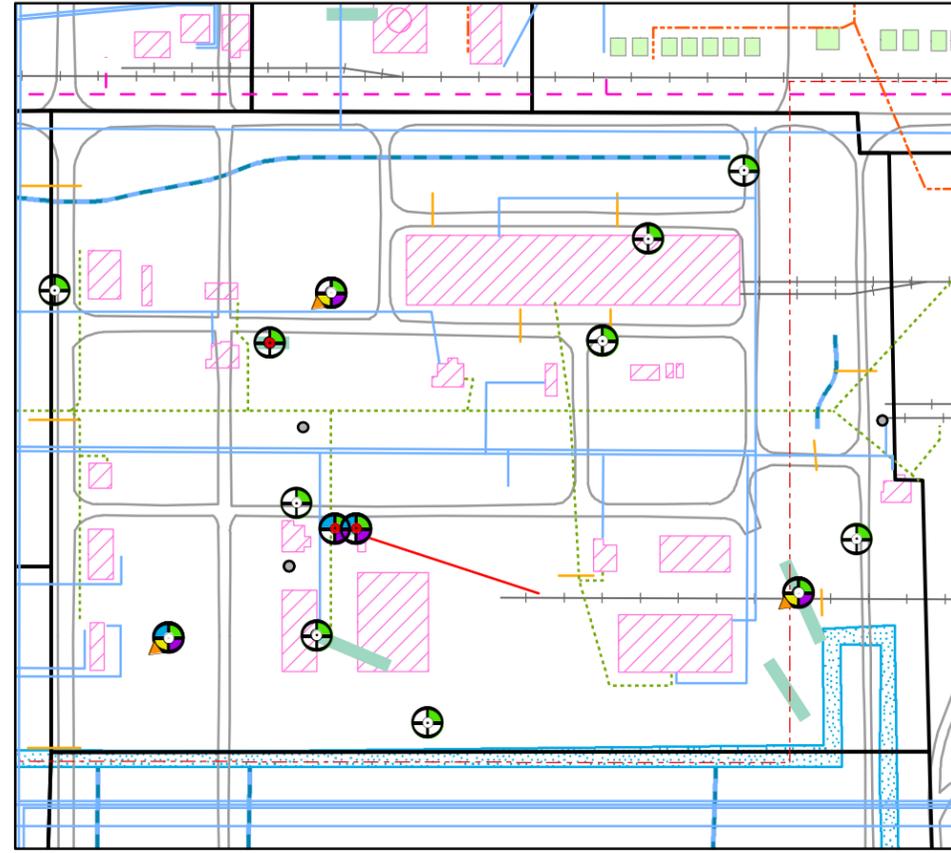
Science Applications International Corporation Columbus, Ohio

Figure 4-8b

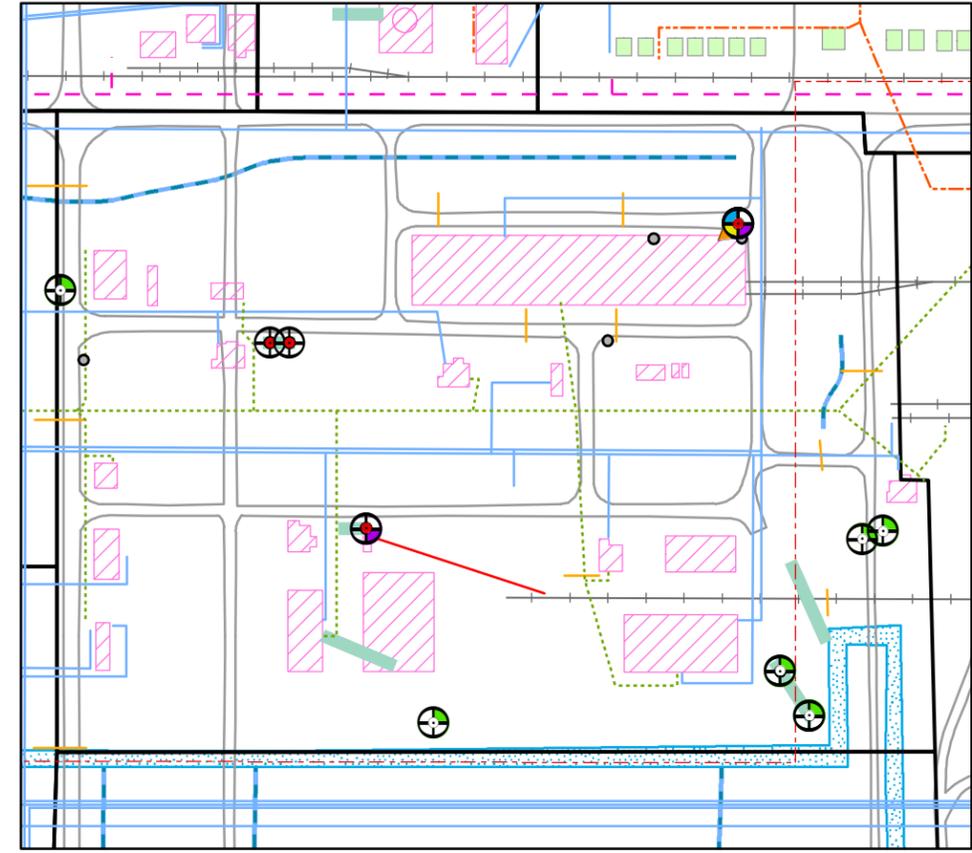
Surface Soil 0-0.5'



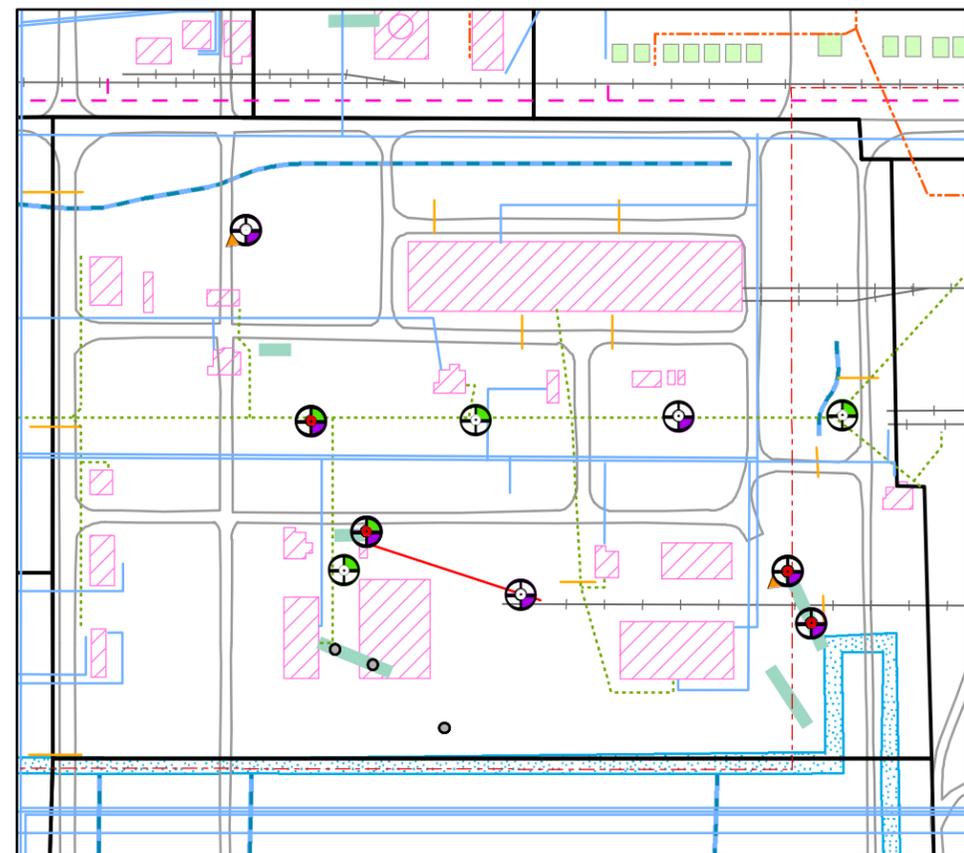
Subsurface Soil 0.5-2'



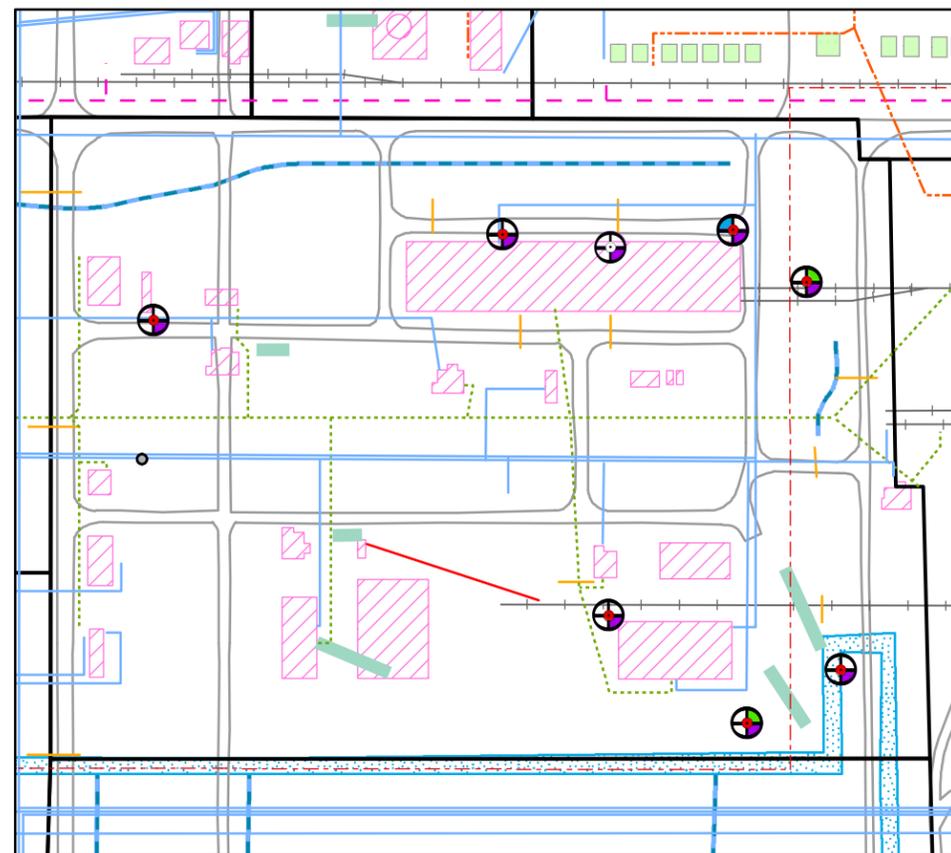
Subsurface Soil 2-5'



Subsurface Soil 5-10'



Subsurface Soil > 10'



Sitewide Legend

<ul style="list-style-type: none"> Metal PCB Pesticide Radionuclide SVOC VOC No Exceedance Structure abandoned above grade Active structure Former structure IWCS cutoff wall Test trenches 	<ul style="list-style-type: none"> Former K-65 transfer pipeline Acid sewer Water lines Culverts Fuel line Sanitary sewer Storm sewer Former remedial structures Former railroad Roads Surface water (inundated 50% of year) Ephemeral ditches EU boundary
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N
0 60 120 240
Feet

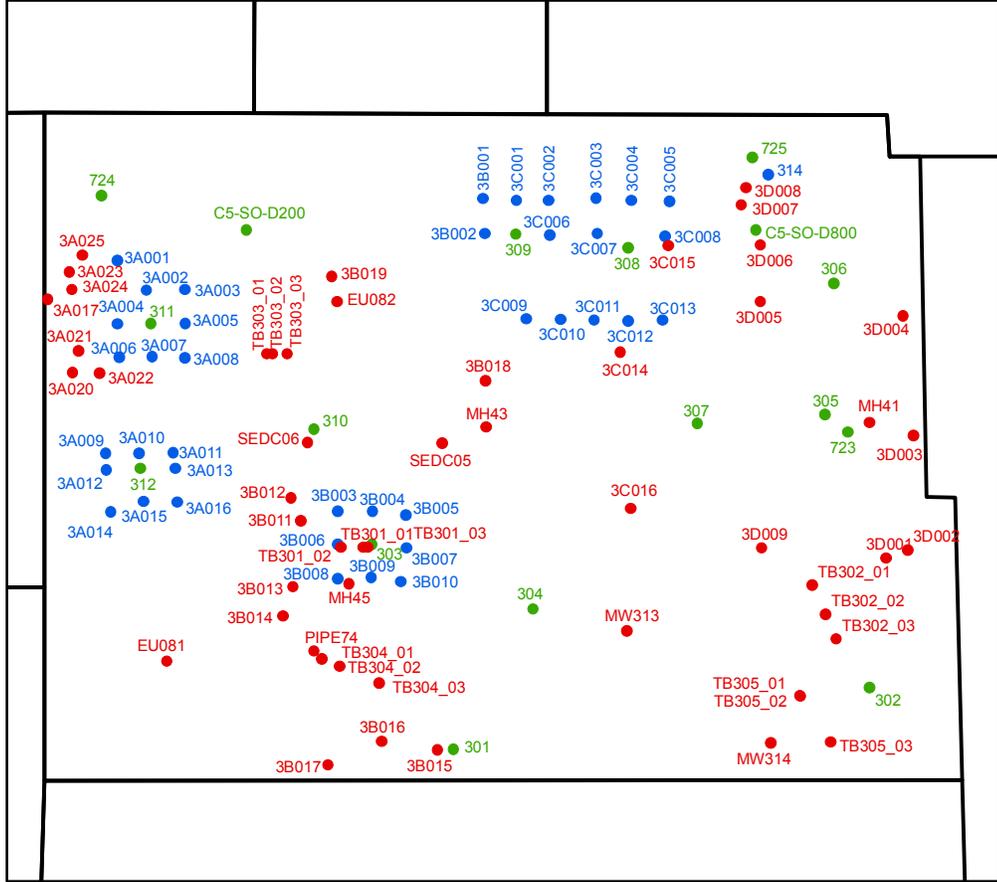
US Army Corps of Engineers
Buffalo District

SRCs - Exceeding the UTL

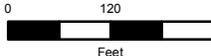
EU 8

SAIC Science Applications International Corporation Columbus, Ohio

Figure 4-9a



- Phase 1
- Phase 2
- Phase 3



US Army Corps of Engineers
Buffalo District



Sample Locations

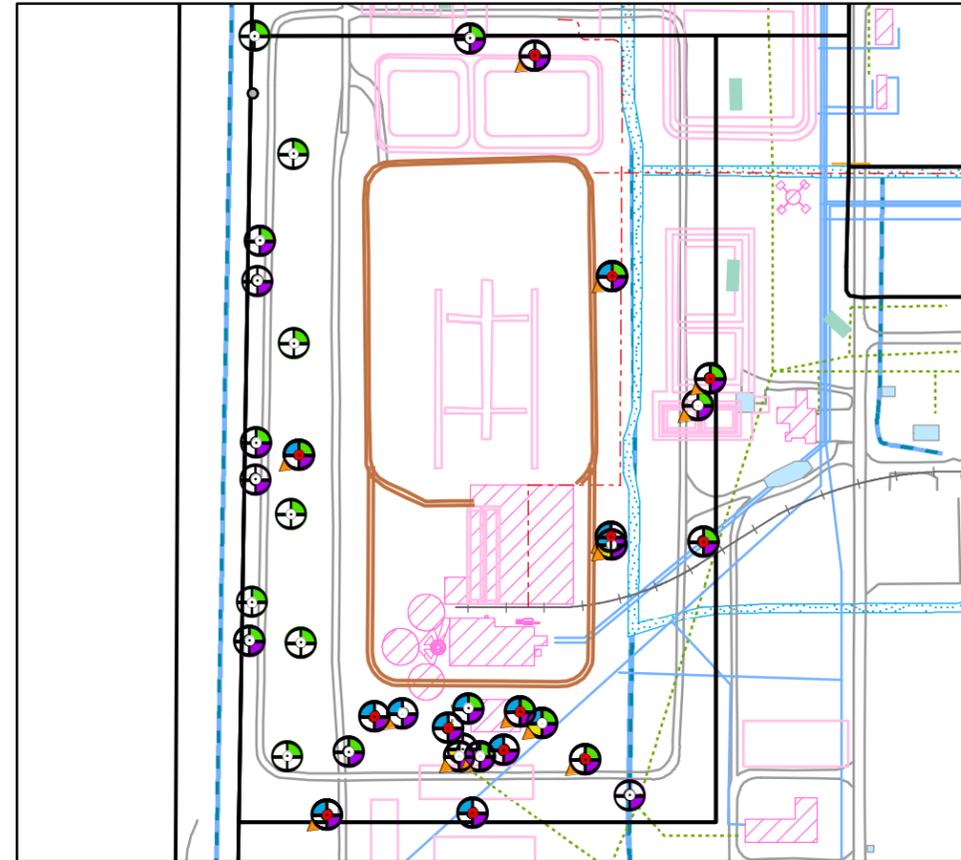
EU 8



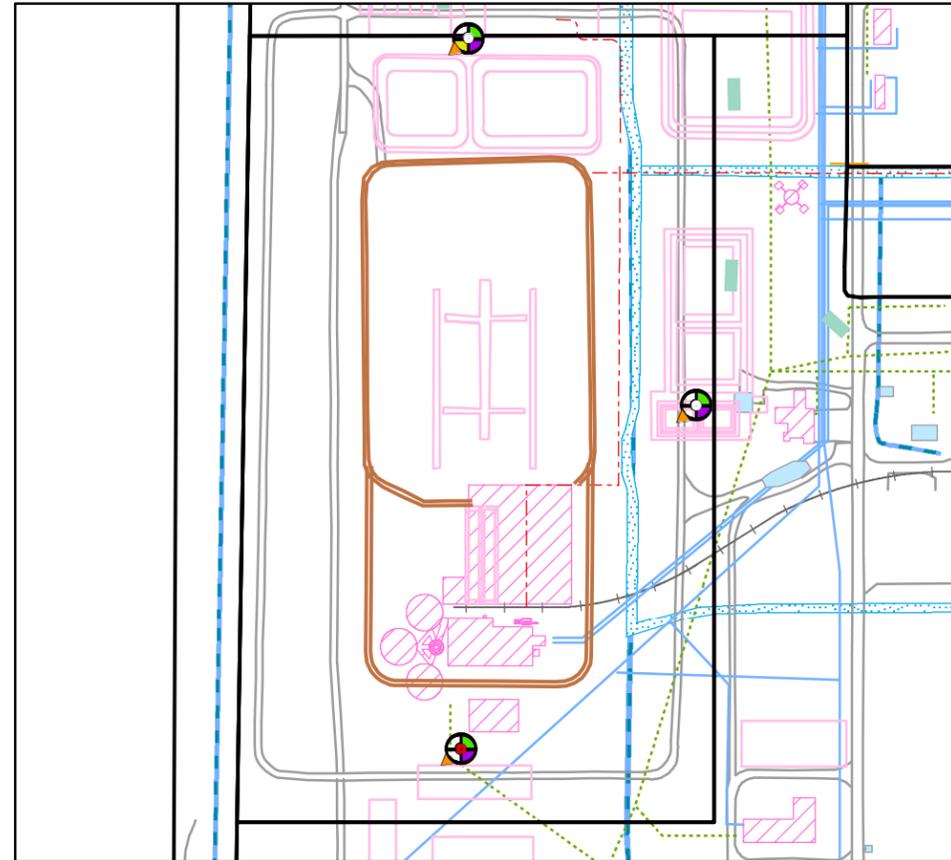
Science Applications International Corporation Columbus, Ohio

Figure 4-9b

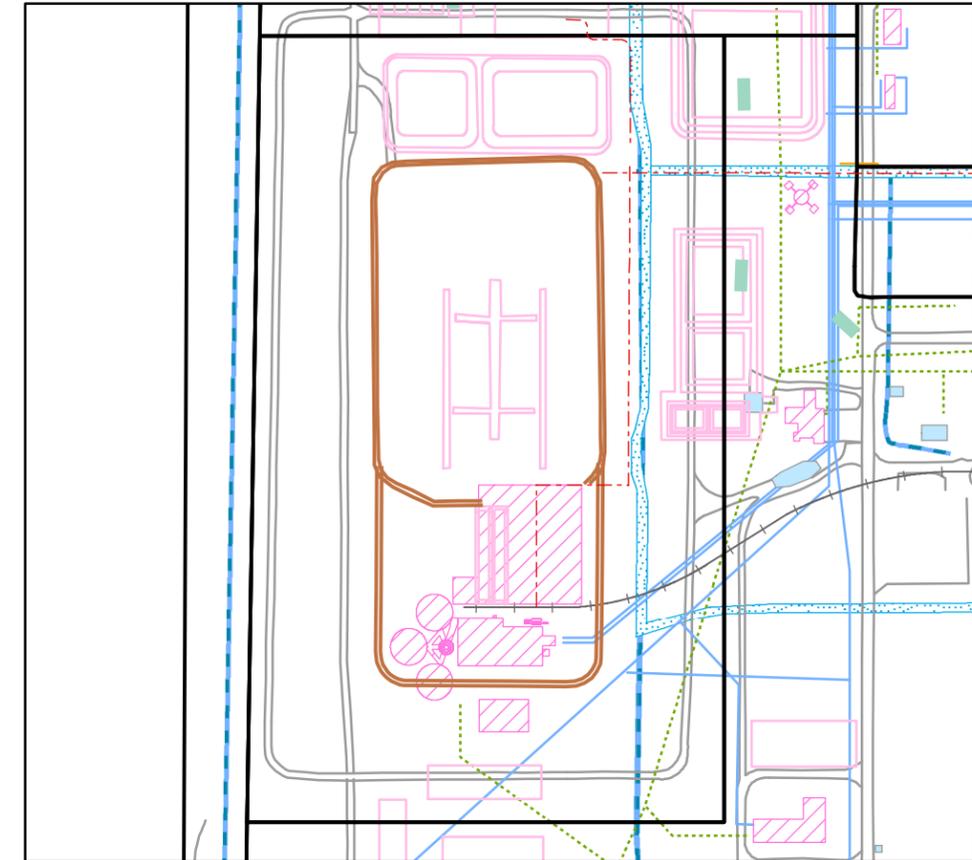
Surface Soil 0-0.5'



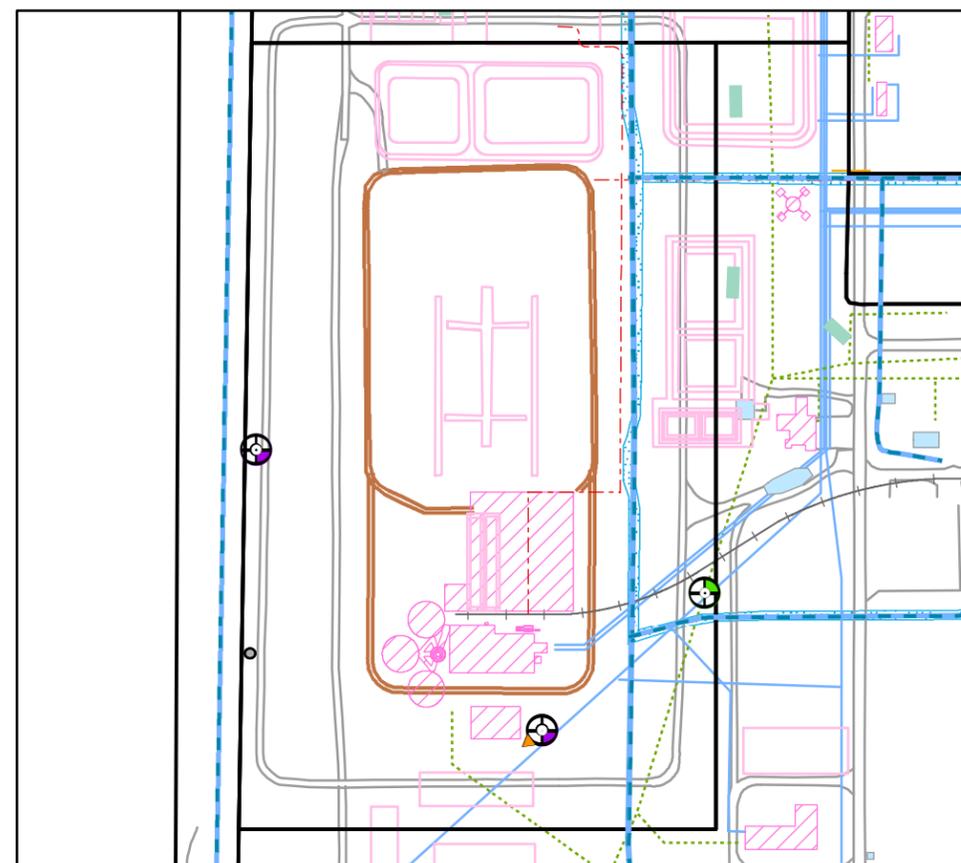
Subsurface Soil 0.5-2'



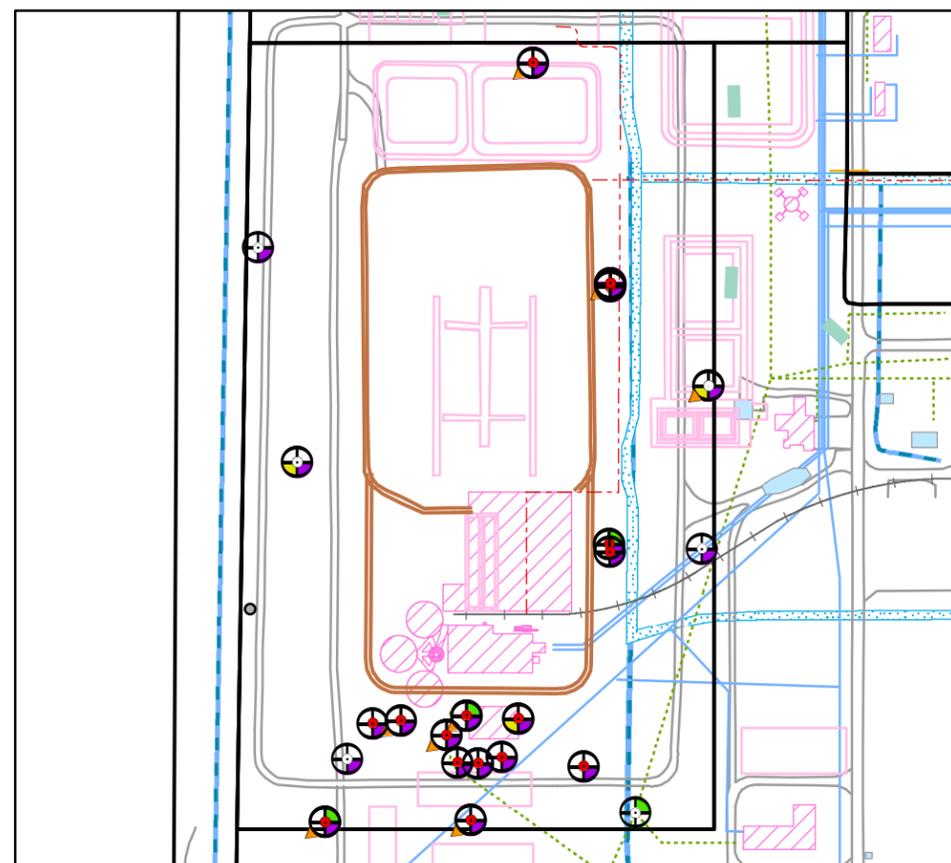
Subsurface Soil 2-5'



Subsurface Soil 5-10'



Subsurface Soil > 10'



Sitewide Legend

<ul style="list-style-type: none"> Metal PCB Pesticide Radionuclide SVOC VOC No Exceedance Structure abandoned above grade Active structure Former structure IWCS cutoff wall Test trenches 	<ul style="list-style-type: none"> Former K-65 transfer pipeline Acid sewer Water lines Culverts Fuel line Sanitary sewer Storm sewer Former remedial structures Former railroad Roads Surface water (inundated 50% of year) Ephemeral ditches EU boundary
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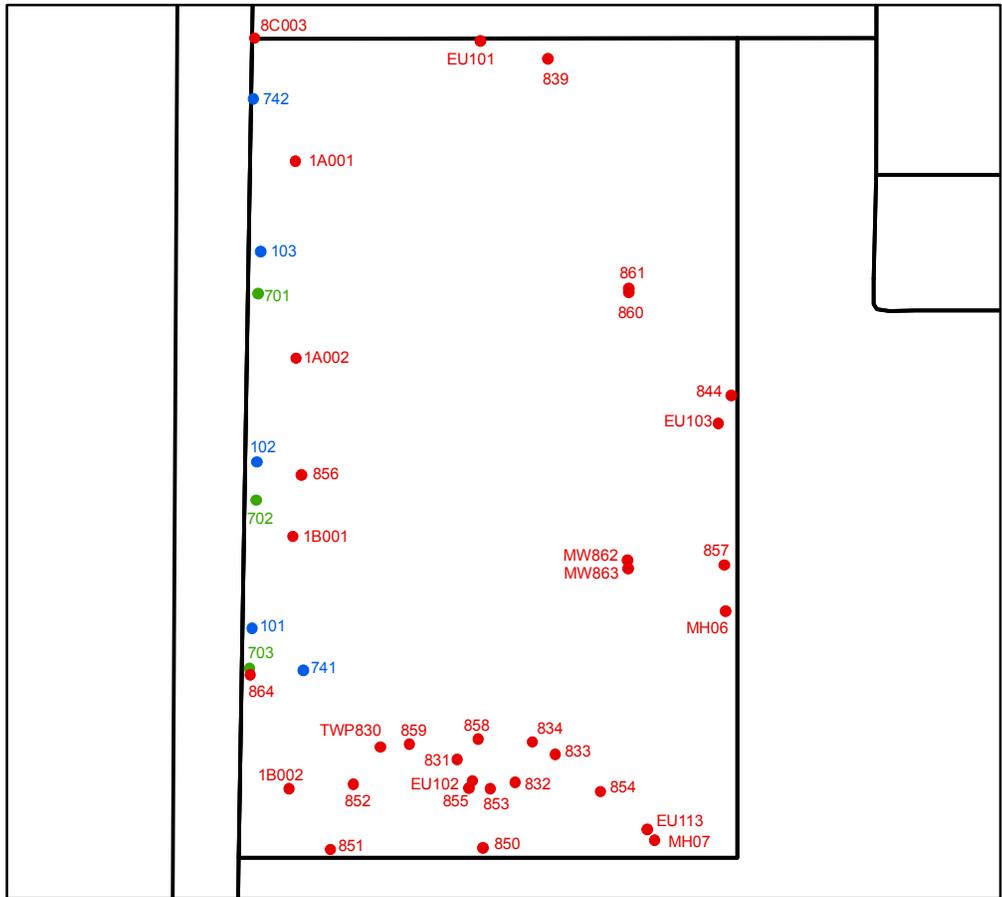
US Army Corps of Engineers
Buffalo District

SRCs - Exceeding the UTL

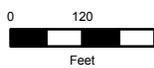
EU 10

SAIC Science Applications International Corporation Columbus, Ohio

Figure 4-10a



- Phase 1
- Phase 2
- Phase 3



US Army Corps of Engineers
Buffalo District



Sample Locations

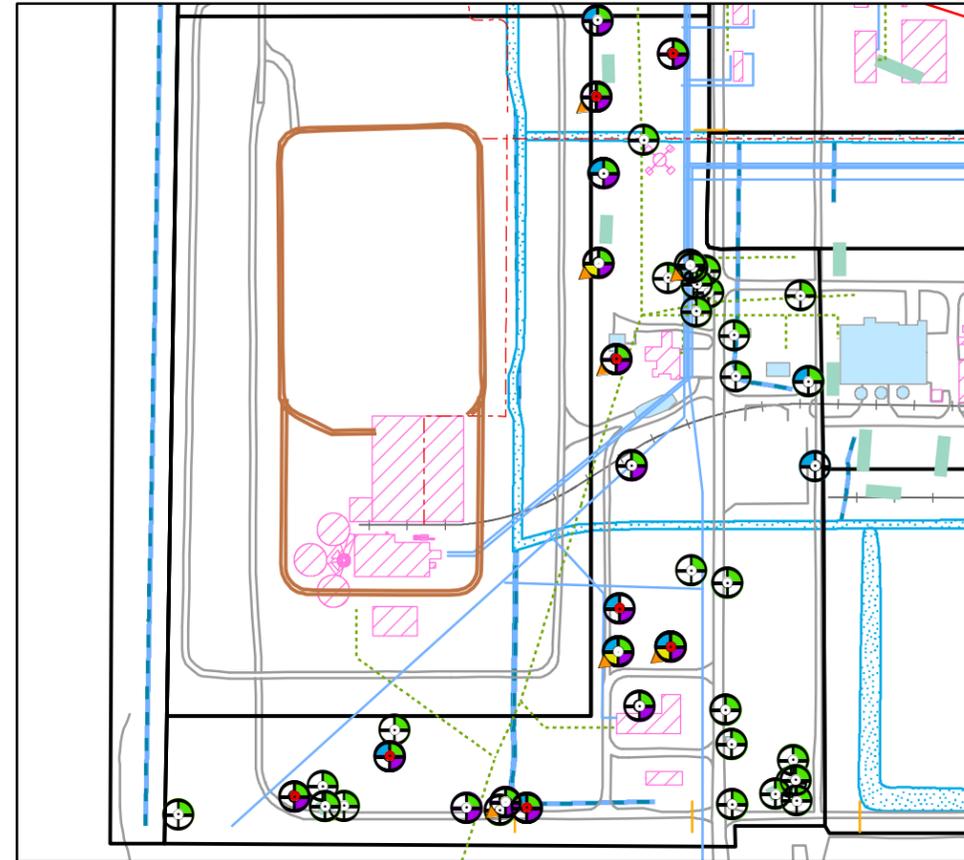
EU 10



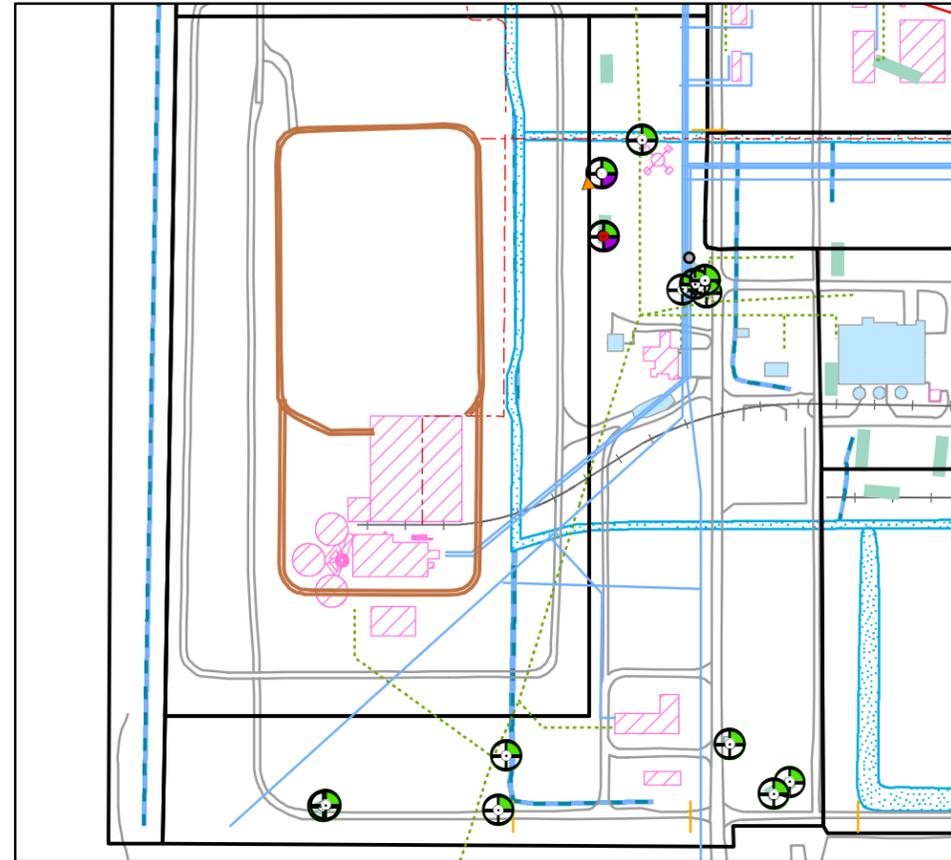
Science Applications
International Corporation Columbus, Ohio

Figure 4-10b

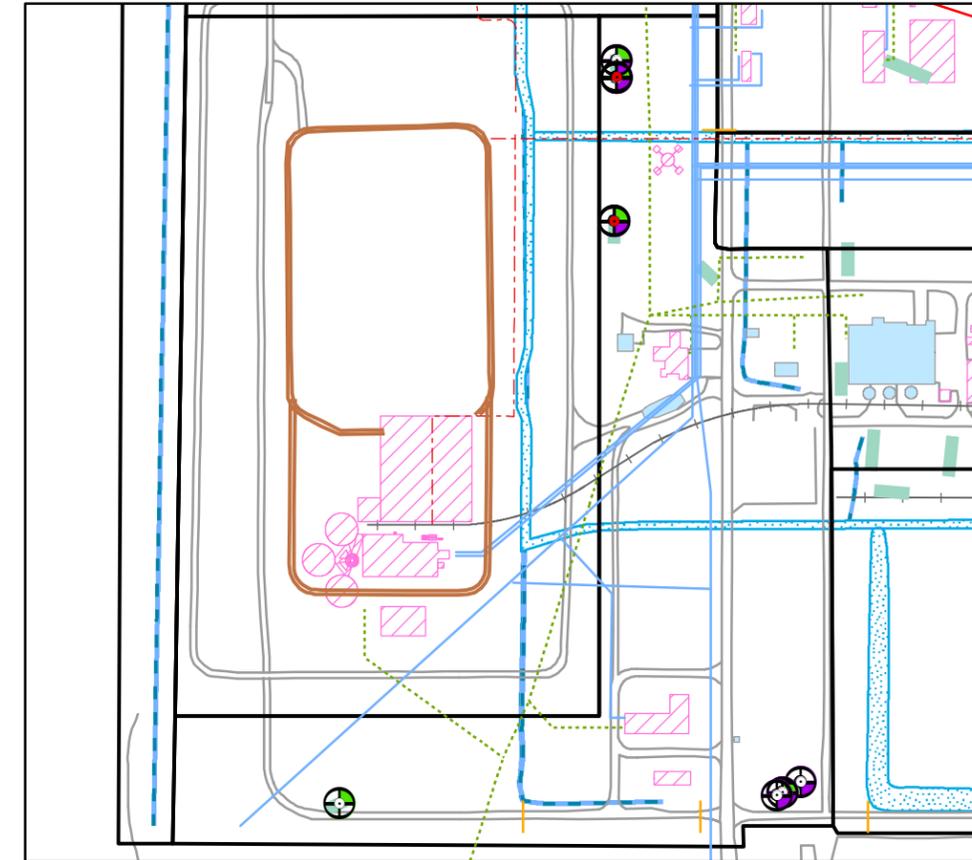
Surface Soil 0-0.5'



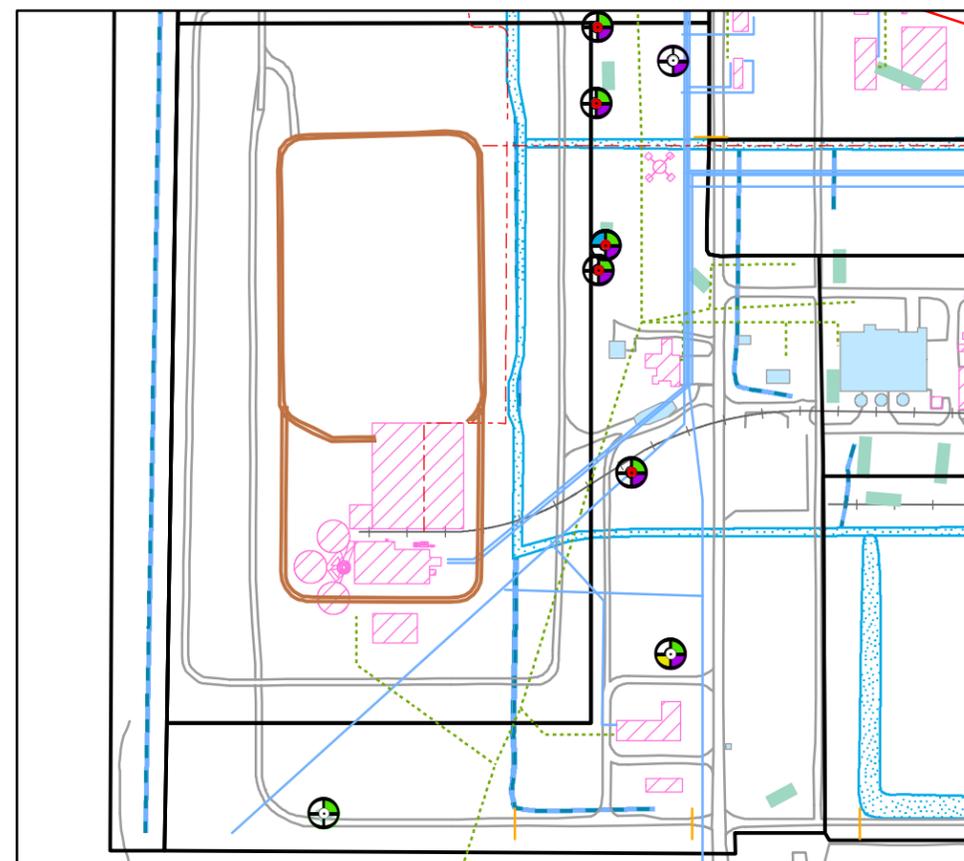
Subsurface Soil 0.5-2'



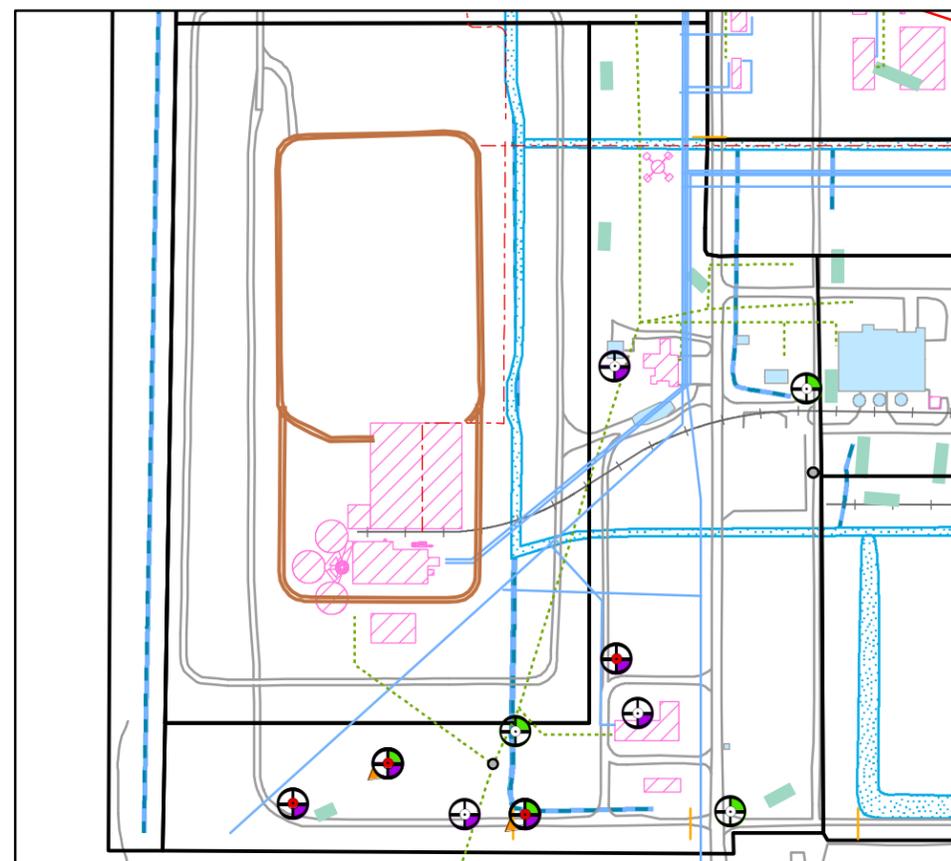
Subsurface Soil 2-5'



Subsurface Soil 5-10'



Subsurface Soil > 10'



Sitewide Legend

<ul style="list-style-type: none"> Metal PCB Pesticide Radionuclide SVOC VOC No Exceedance Structure abandoned above grade Active structure Former structure IWCS cutoff wall Test trenches 	<ul style="list-style-type: none"> Former K-65 transfer pipeline Acid sewer Water lines Culverts Fuel line Sanitary sewer Storm sewer Former remedial structures Former railroad Roads Surface water (inundated 50% of year) Ephemeral ditches EU boundary
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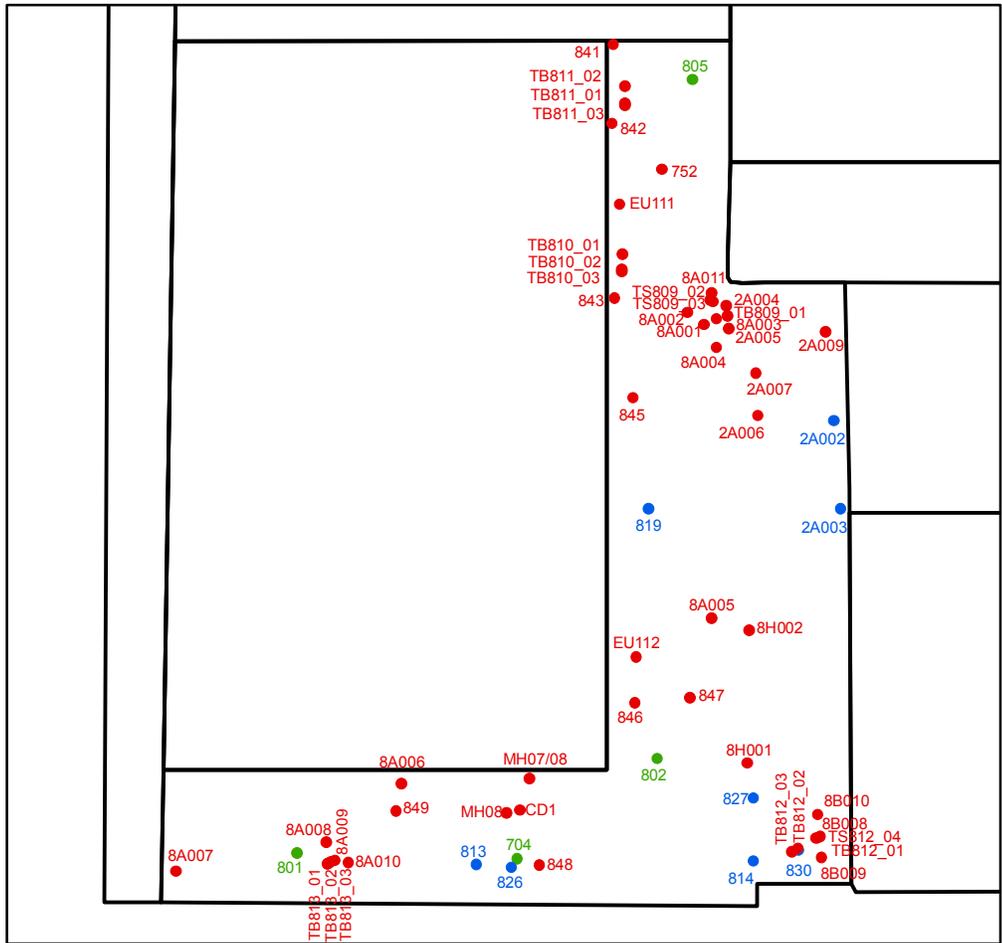
US Army Corps of Engineers
Buffalo District

SRCs - Exceeding the UTL

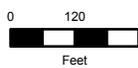
EU 11

Science Applications International Corporation Columbus, Ohio

Figure 4-11a



- Phase 1
- Phase 2
- Phase 3



US Army Corps of Engineers
Buffalo District



Sample Locations

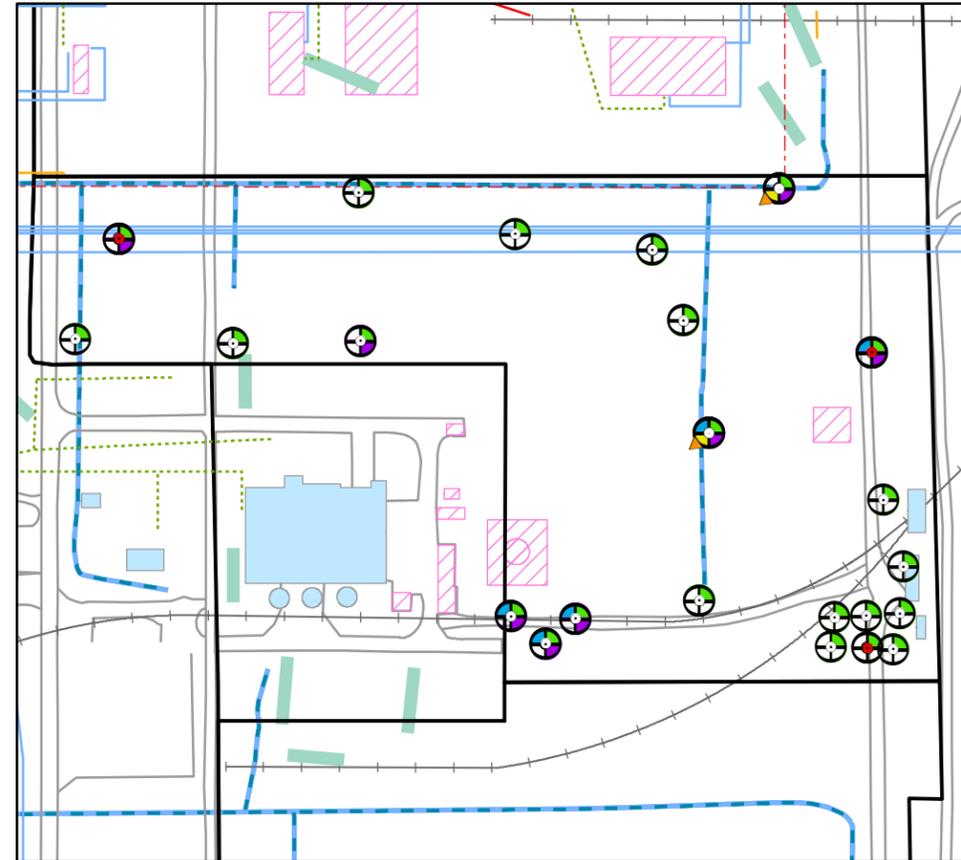
EU 11



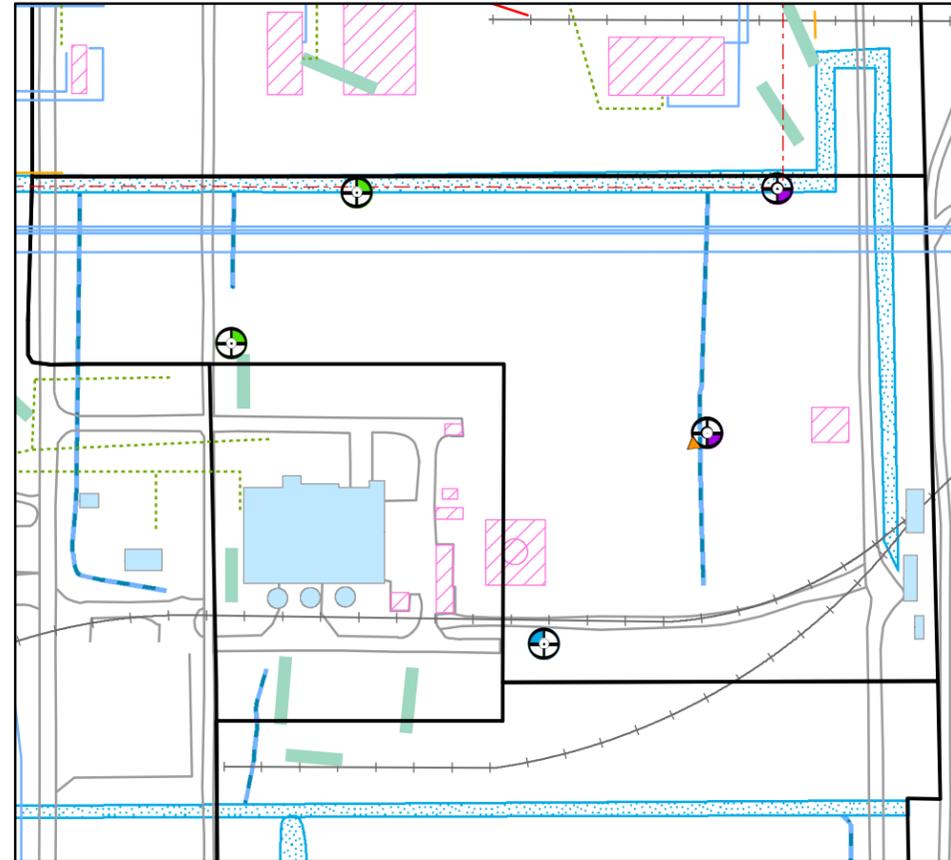
Science Applications International Corporation Columbus, Ohio

Figure 4-11b

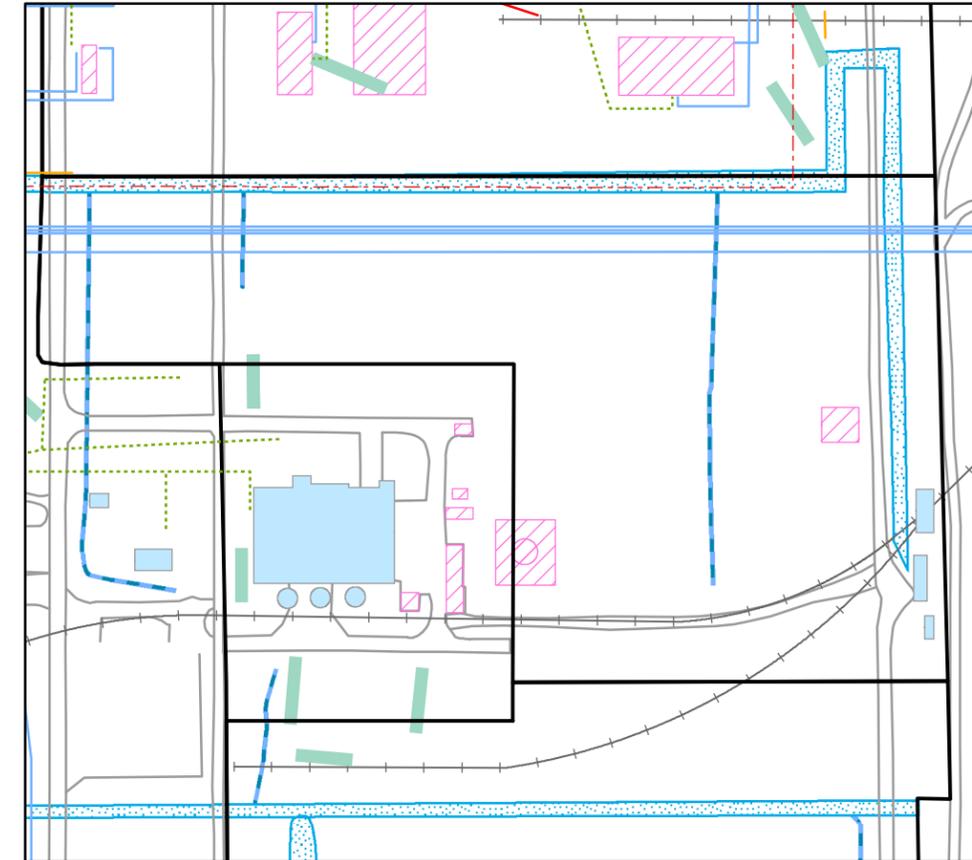
Surface Soil 0-0.5'



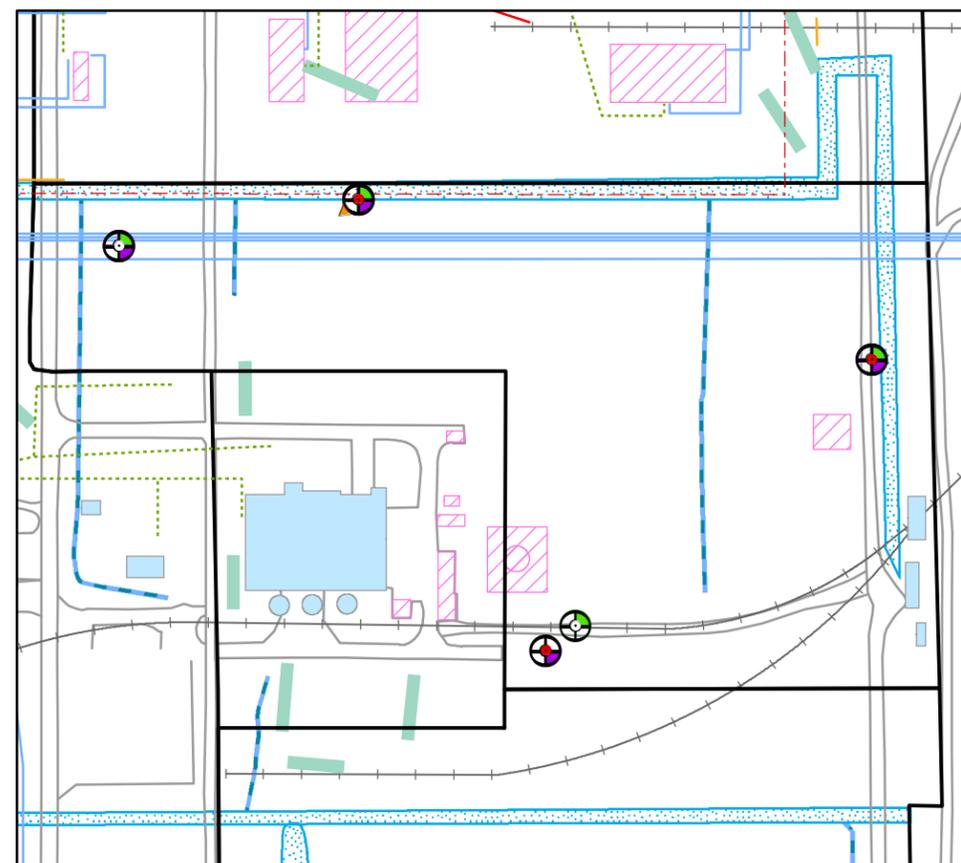
Subsurface Soil 0.5-2'



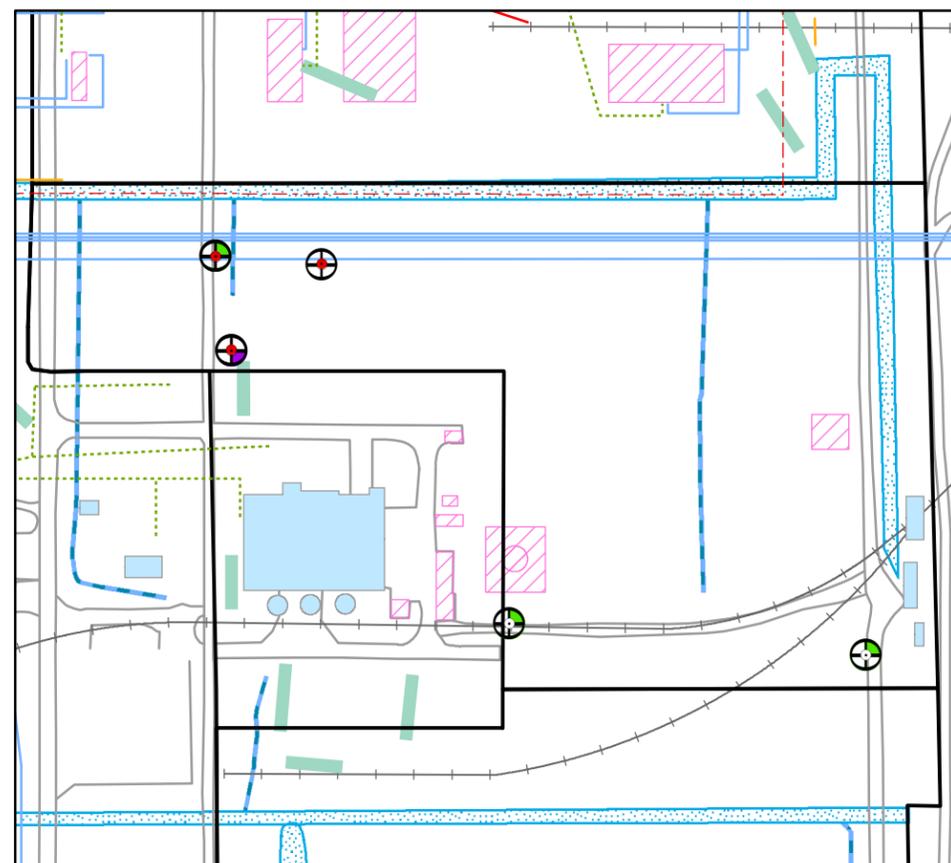
Subsurface Soil 2-5'



Subsurface Soil 5-10'



Subsurface Soil > 10'



Sitewide Legend

<ul style="list-style-type: none"> Metal PCB Pesticide Radionuclide SVOC VOC No Exceedance Structure abandoned above grade Active structure Former structure IWCS cutoff wall Test trenches 	<ul style="list-style-type: none"> Former K-65 transfer pipeline Acid sewer Water lines Culverts Fuel line Sanitary sewer Storm sewer Former remedial structures Former railroad Roads Surface water (inundated 50% of year) Ephemeral ditches EU boundary
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N
0 60 120 240
Feet

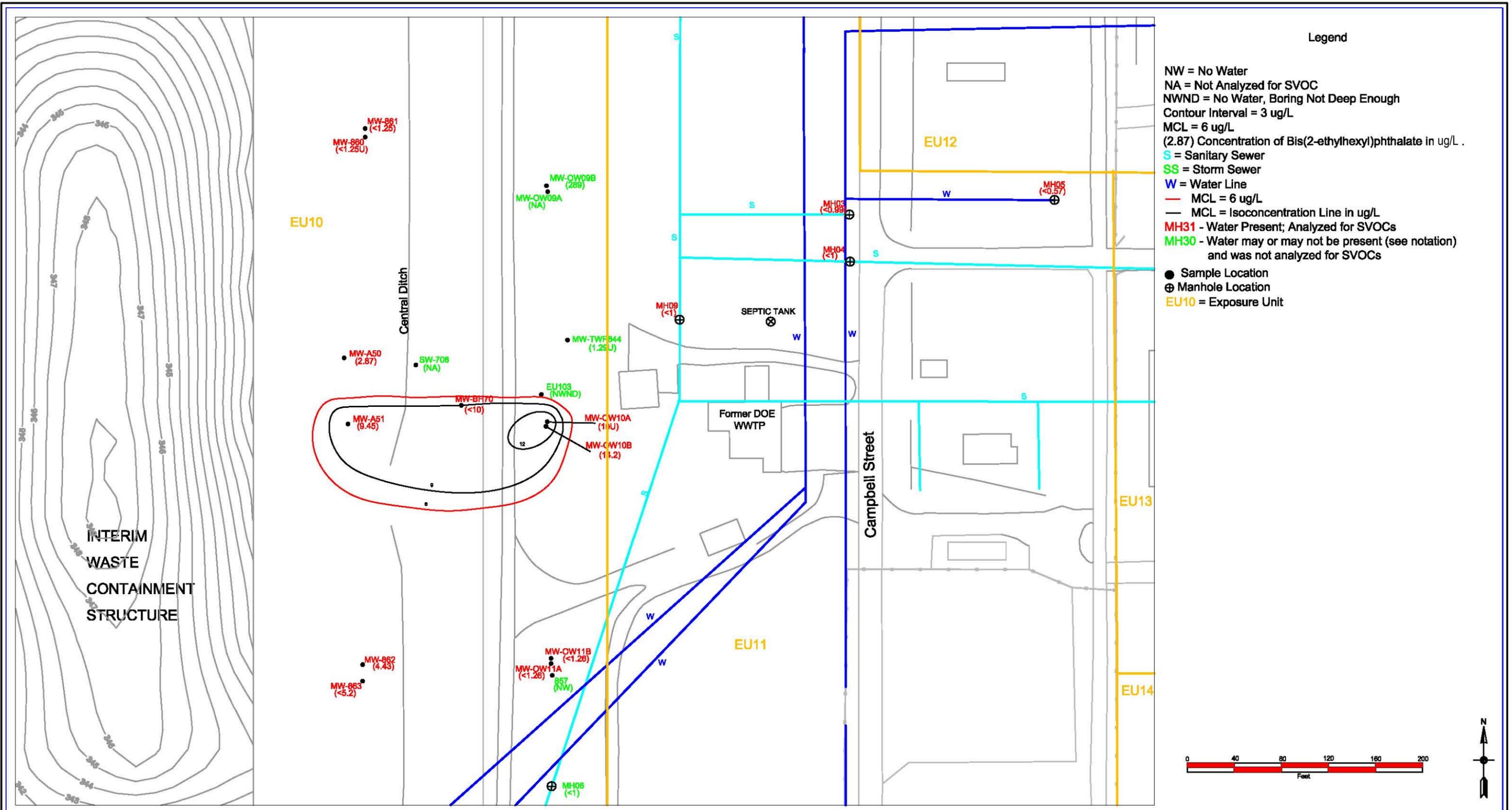
US Army Corps of Engineers
Buffalo District

SRCs - Exceeding the UTL

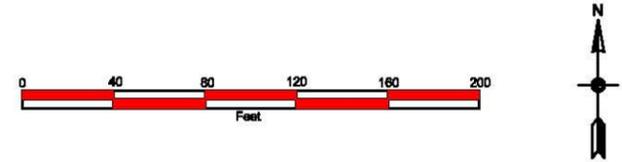
EU 12

Science Applications International Corporation Columbus, Ohio

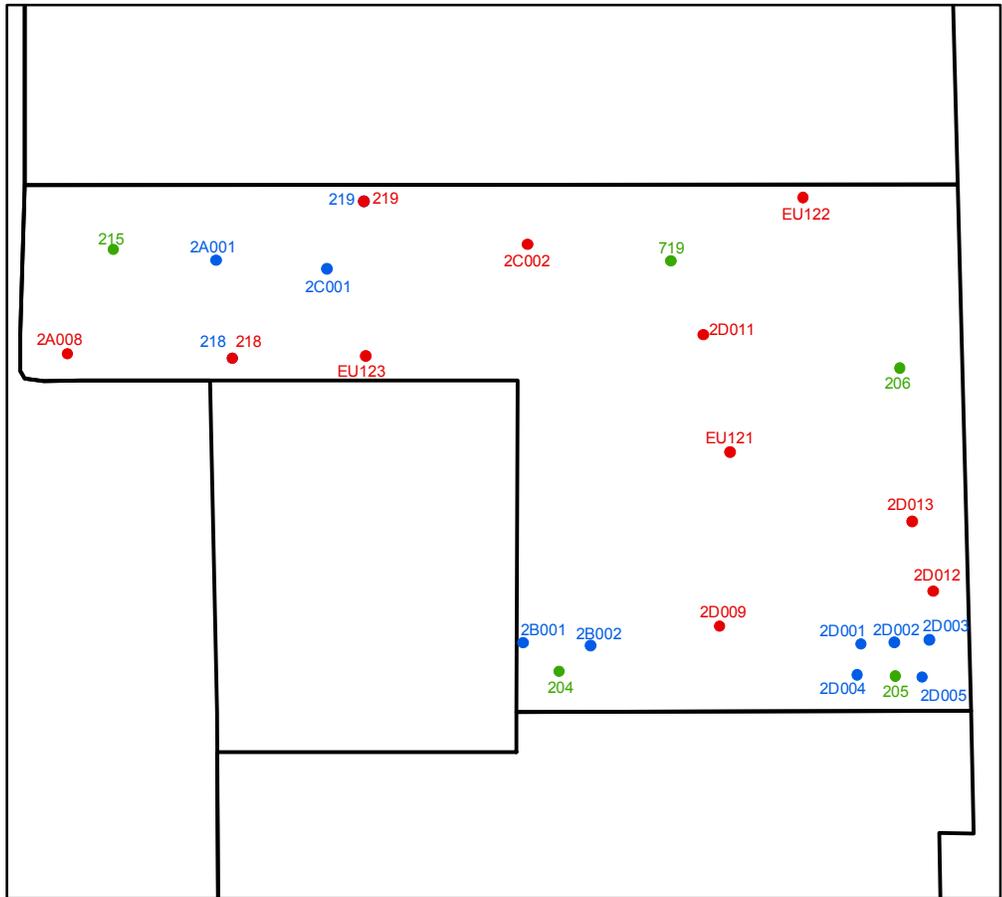
Figure 4-12a



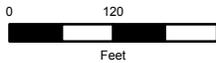
Distribution of Bis(2-ethylhexyl)phthalate in EU10



PROJECT NO.	5450057	FIGURE NO.	5-13
SCALE:	AS SHOWN	DATE:	11-14-2006
DRAWN BY:	DWC	CHECKED BY:	NMD



- Phase 1
- Phase 2
- Phase 3



US Army Corps of Engineers
Buffalo District



Sample Locations

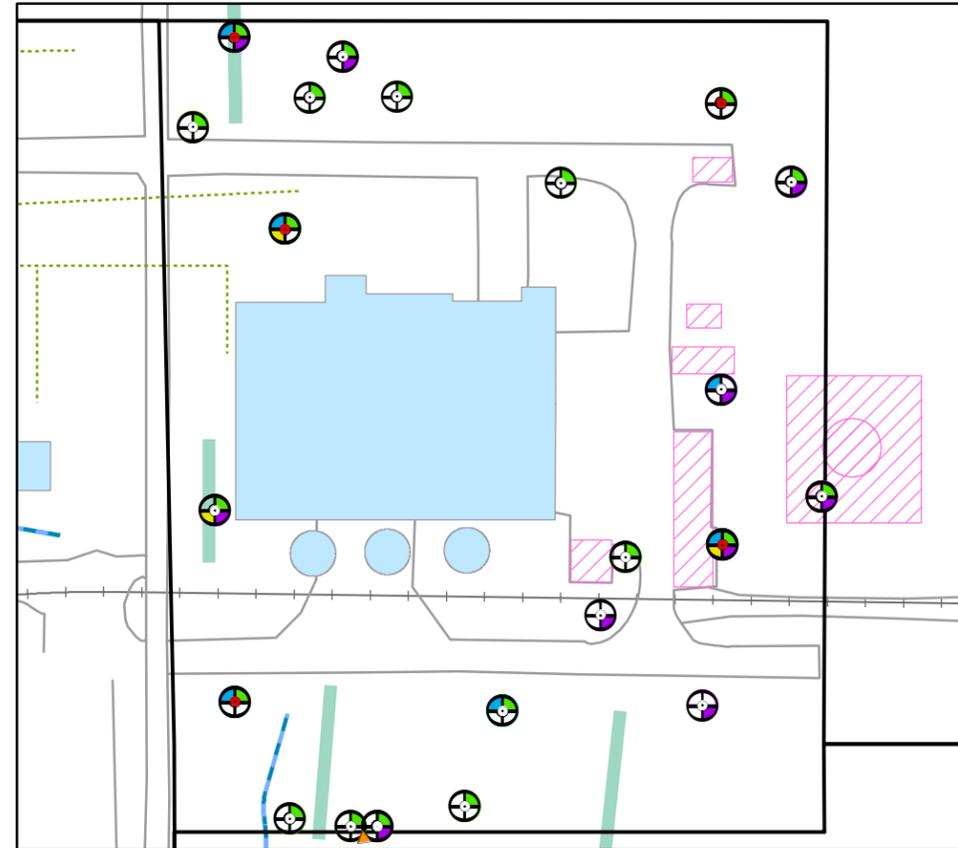
EU 12



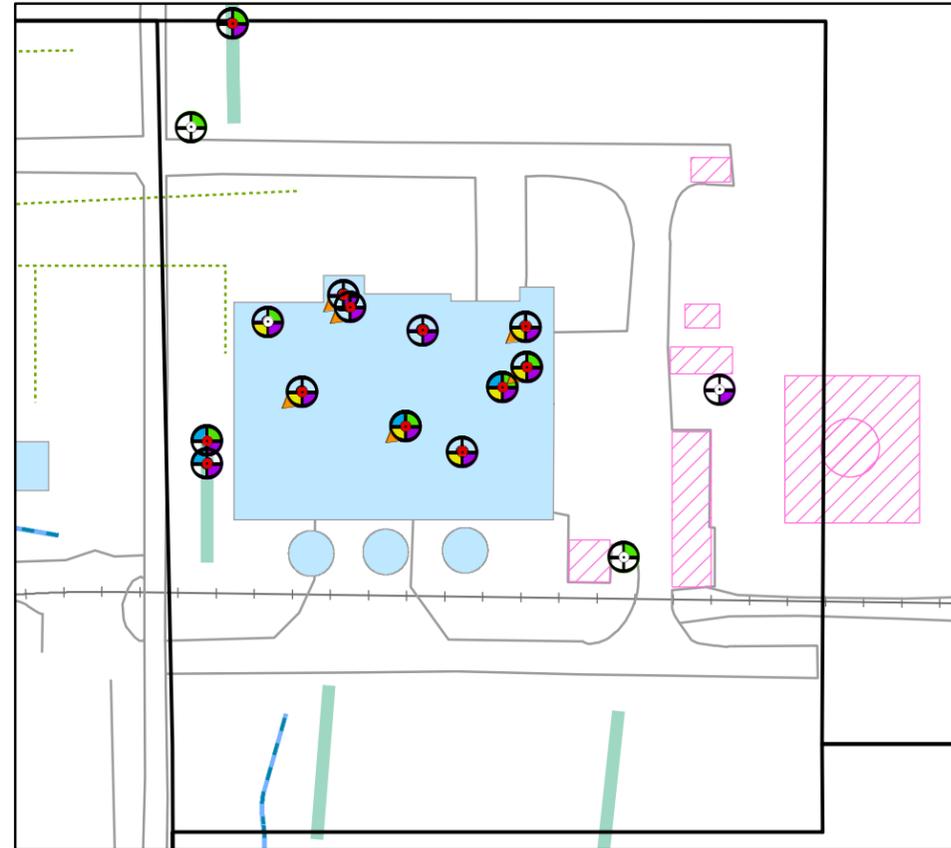
Science Applications
International Corporation Columbus, Ohio

Figure 4-12b

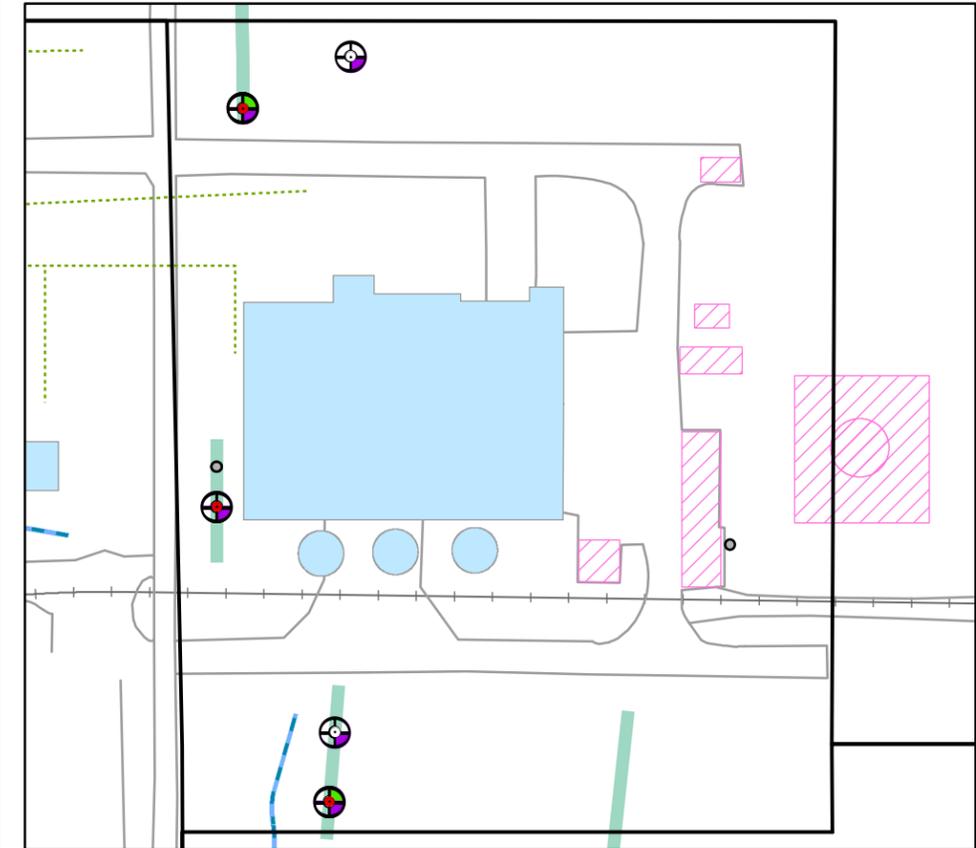
Surface Soil 0-0.5'



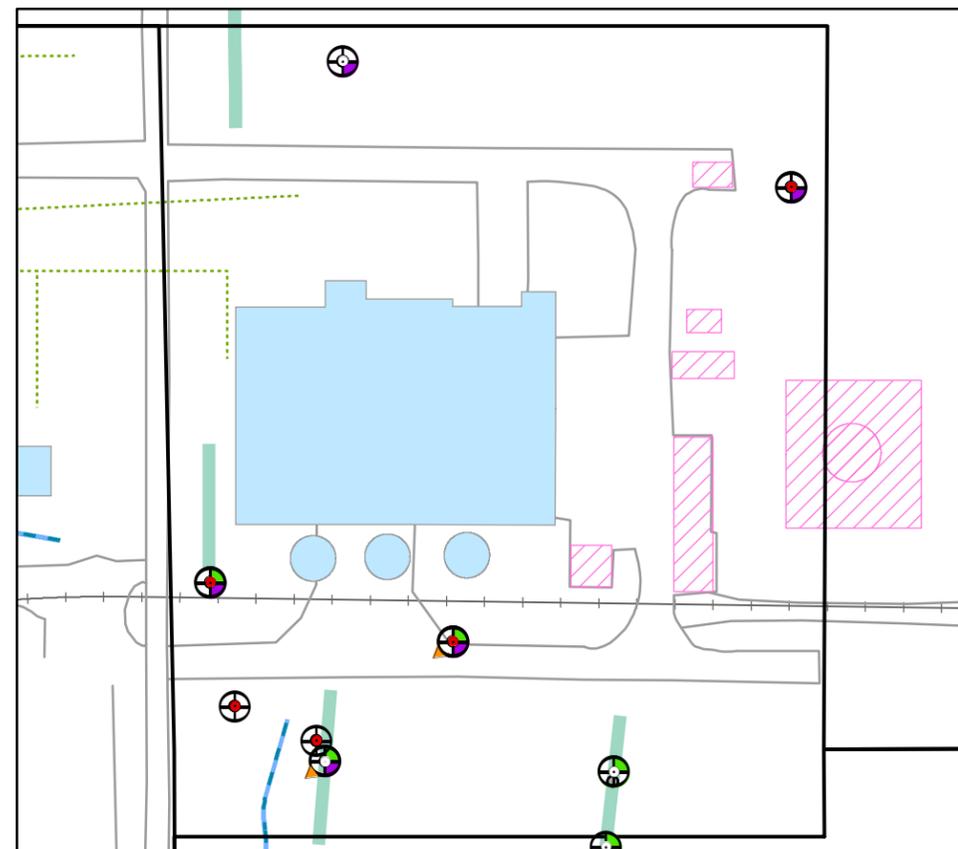
Subsurface Soil 0.5-2'



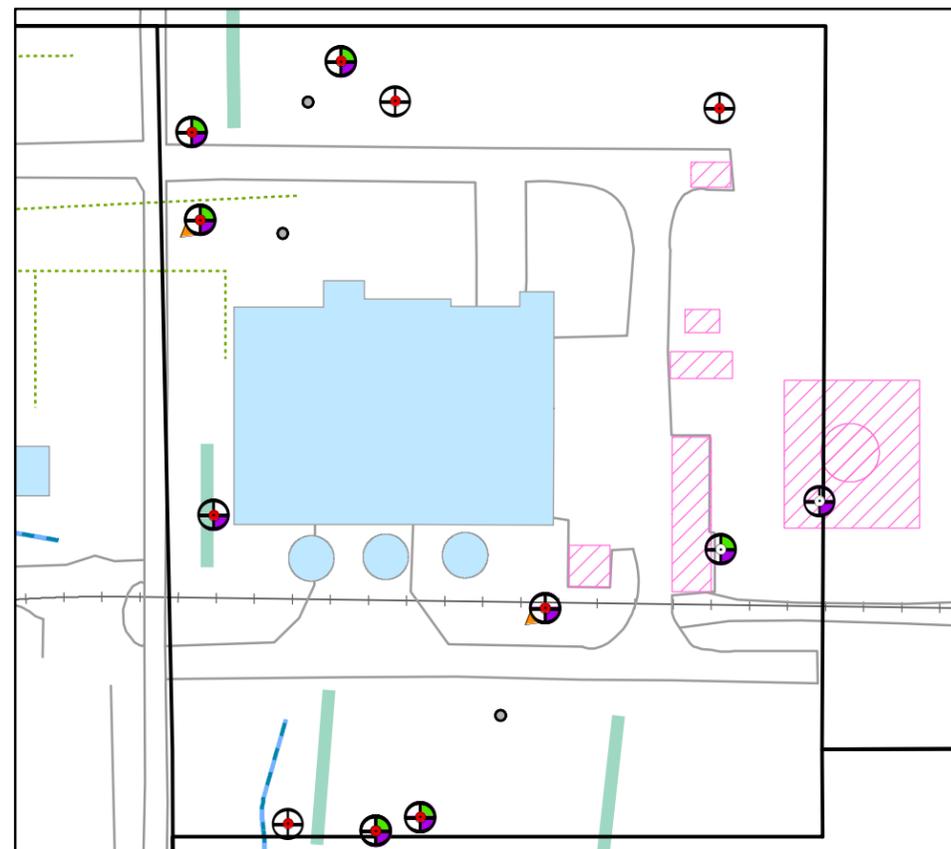
Subsurface Soil 2-5'



Subsurface Soil 5-10'



Subsurface Soil > 10'



Sitewide Legend

<ul style="list-style-type: none"> Metal PCB Pesticide Radionuclide SVOC VOC No Exceedance Structure abandoned above grade Active structure Former structure IWCS cutoff wall Test trenches 	<ul style="list-style-type: none"> Former K-65 transfer pipeline Acid sewer Water lines Culverts Fuel line Sanitary sewer Storm sewer Former remedial structures Former railroad Roads Surface water (inundated 50% of year) Ephemeral ditches EU boundary
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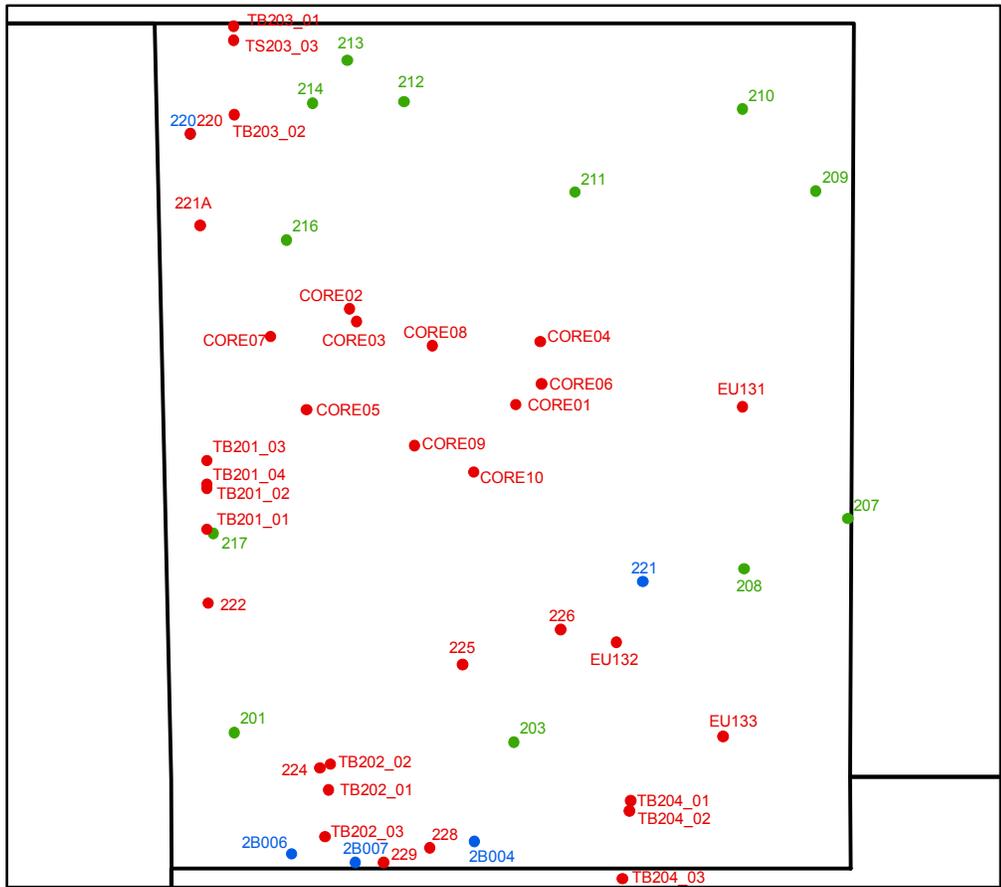
US Army Corps of Engineers Buffalo District

SRCs - Exceeding the UTL

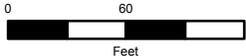
EU 13

Science Applications International Corporation Columbus, Ohio

Figure 4-13a



- Phase 1
- Phase 2
- Phase 3



US Army Corps of Engineers
Buffalo District



Sample Locations

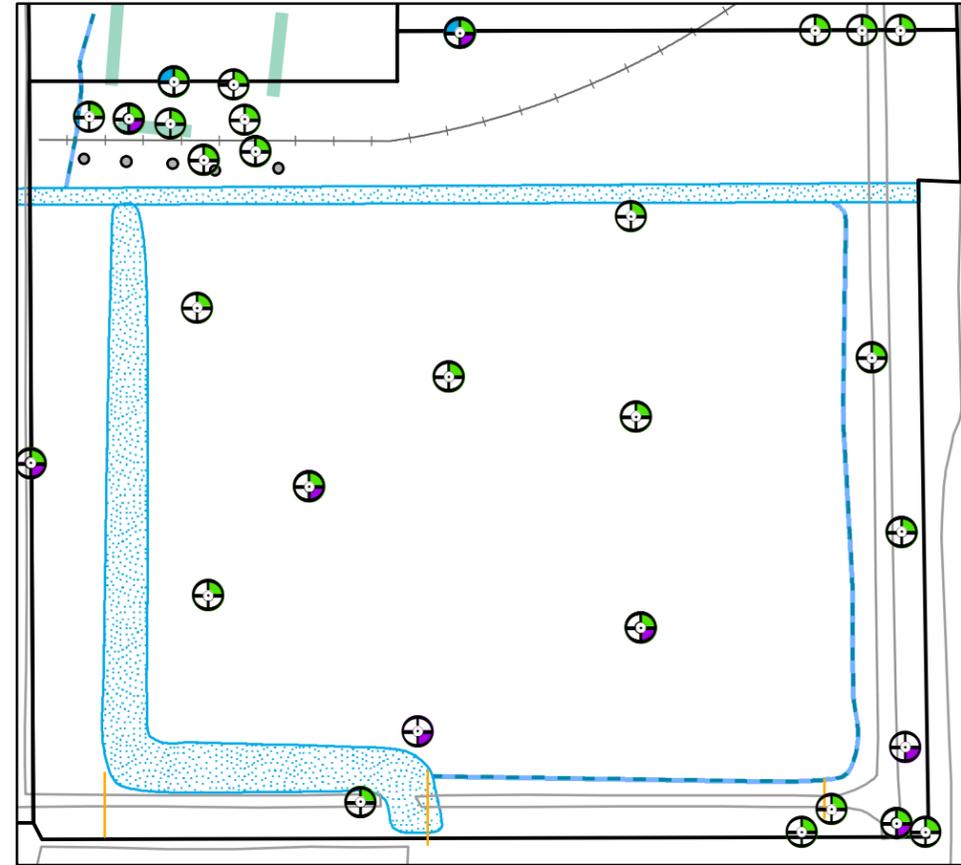
EU 13



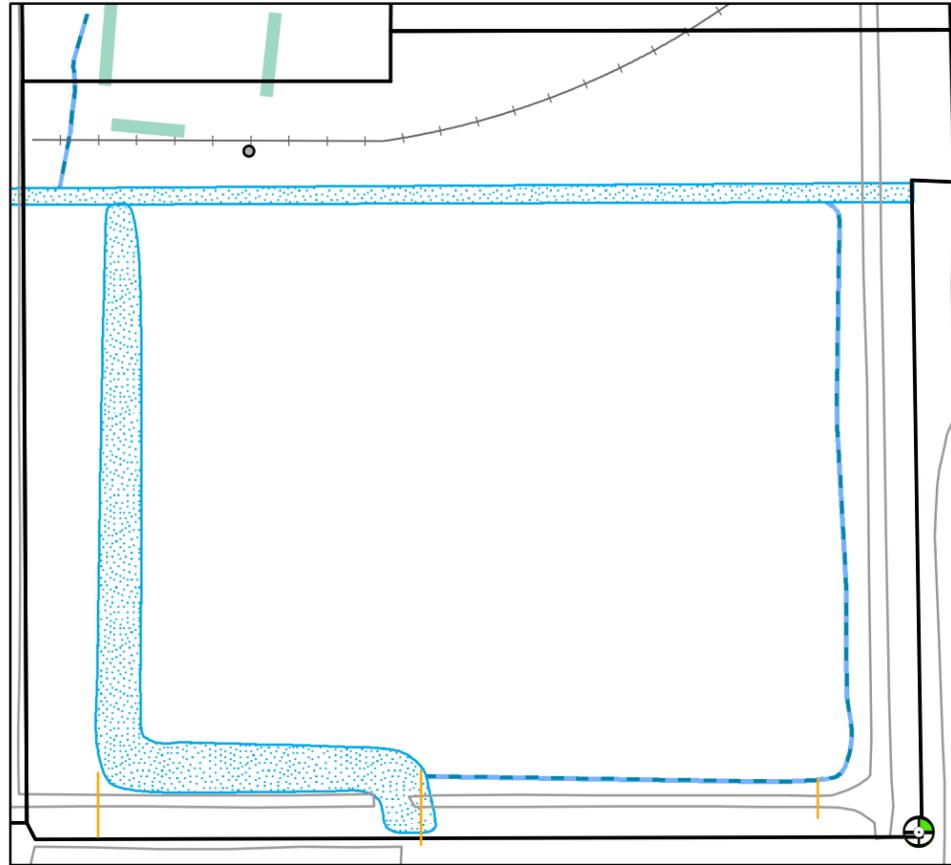
Science Applications
International Corporation Columbus, Ohio

Figure 4-13b

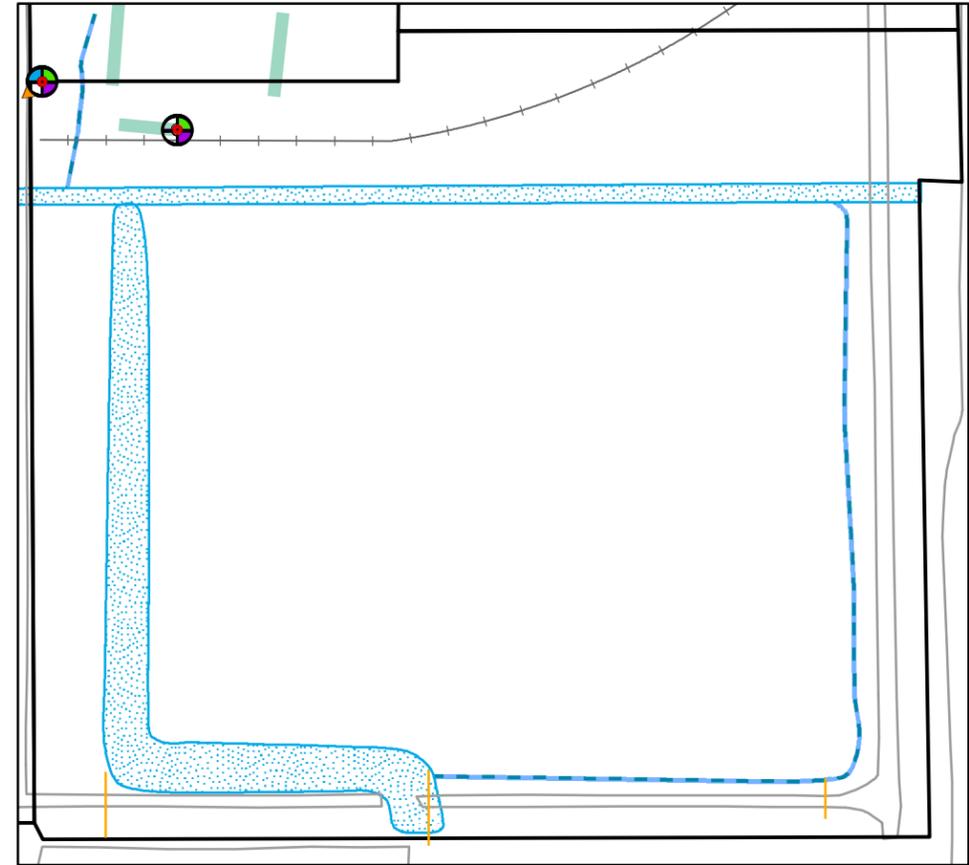
Surface Soil 0-0.5'



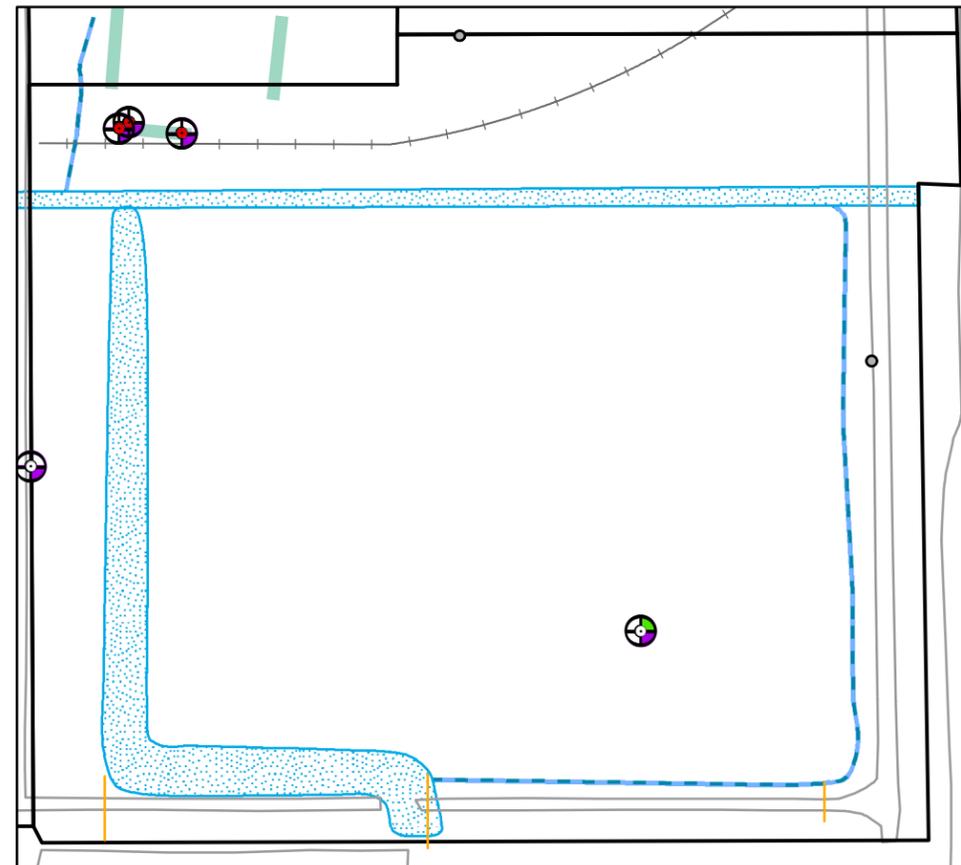
Subsurface Soil 0.5-2'



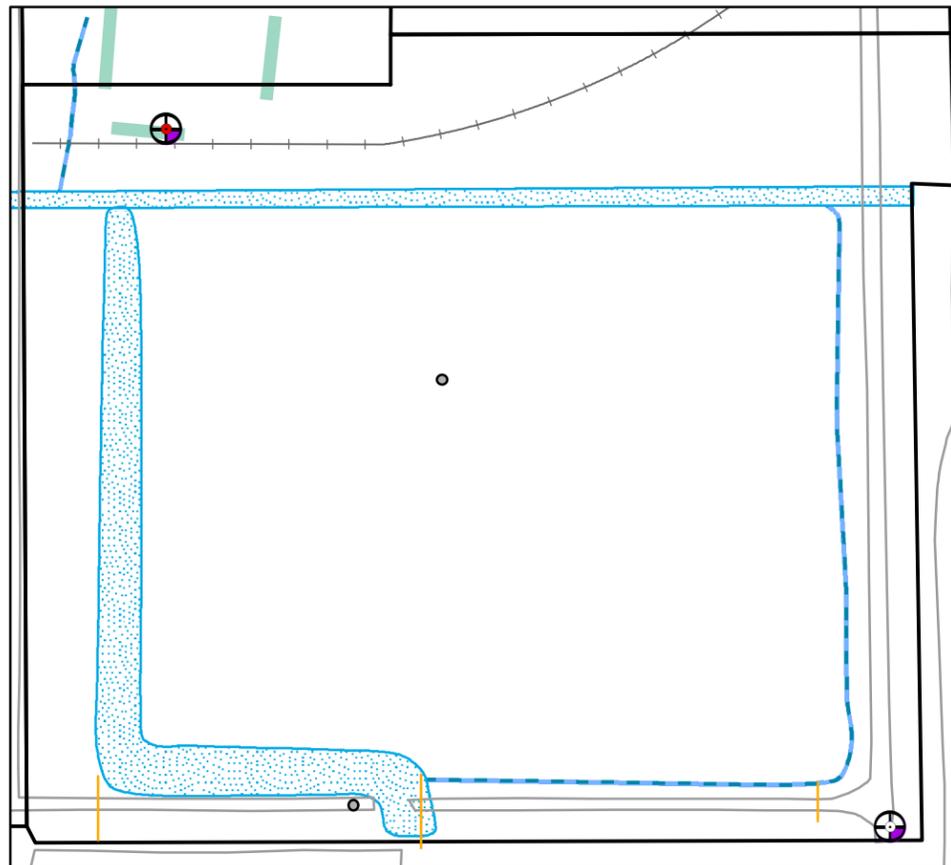
Subsurface Soil 2-5'



Subsurface Soil 5-10'

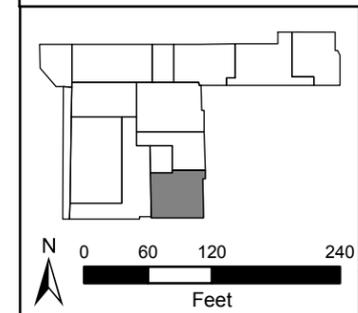


Subsurface Soil > 10'



Sitewide Legend

<ul style="list-style-type: none"> Metal PCB Pesticide Radionuclide SVOC VOC No Exceedance Structure abandoned above grade Active structure Former structure IWCS cutoff wall Test trenches 	<ul style="list-style-type: none"> Former K-65 transfer pipeline Acid sewer Water lines Culverts Fuel line Sanitary sewer Storm sewer Former remedial structures Former railroad Roads Surface water (inundated 50% of year) Ephemeral ditches EU boundary
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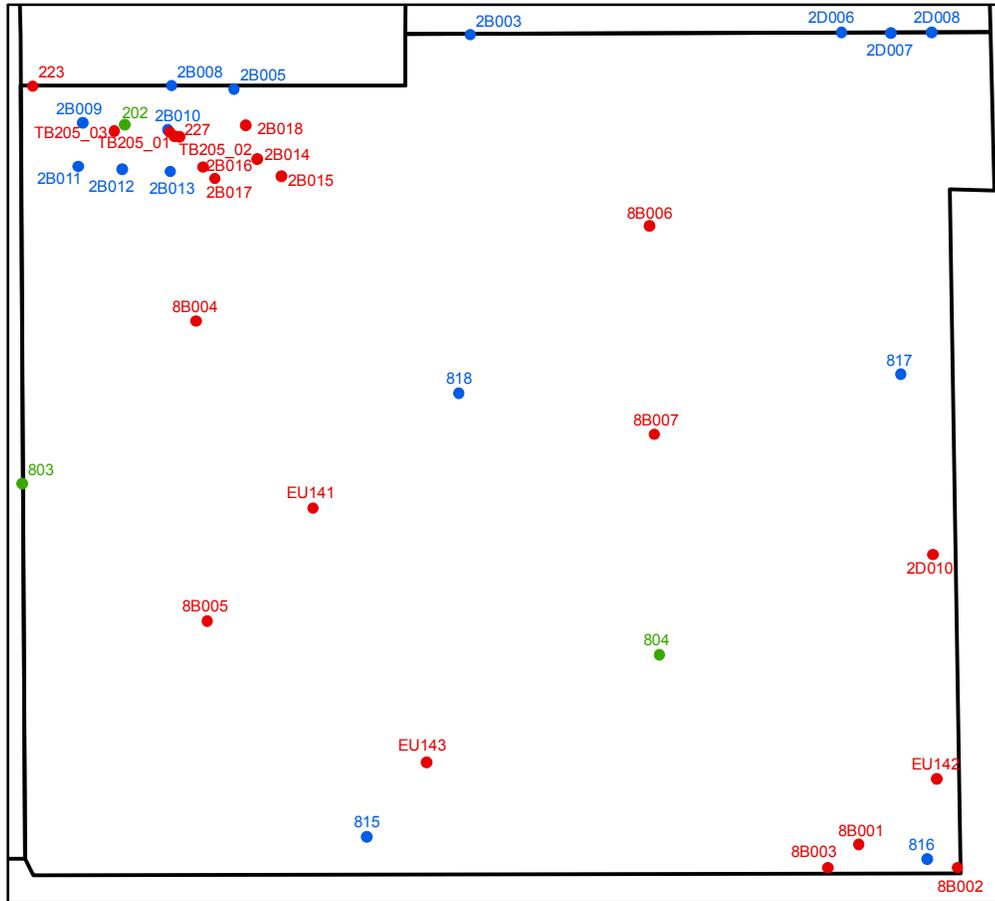
US Army Corps of Engineers
Buffalo District

SRCs - Exceeding the UTL

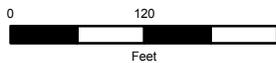
EU 14

Science Applications International Corporation Columbus, Ohio

Figure 4-14a



- Phase 1
- Phase 2
- Phase 3



US Army Corps of Engineers
Buffalo District



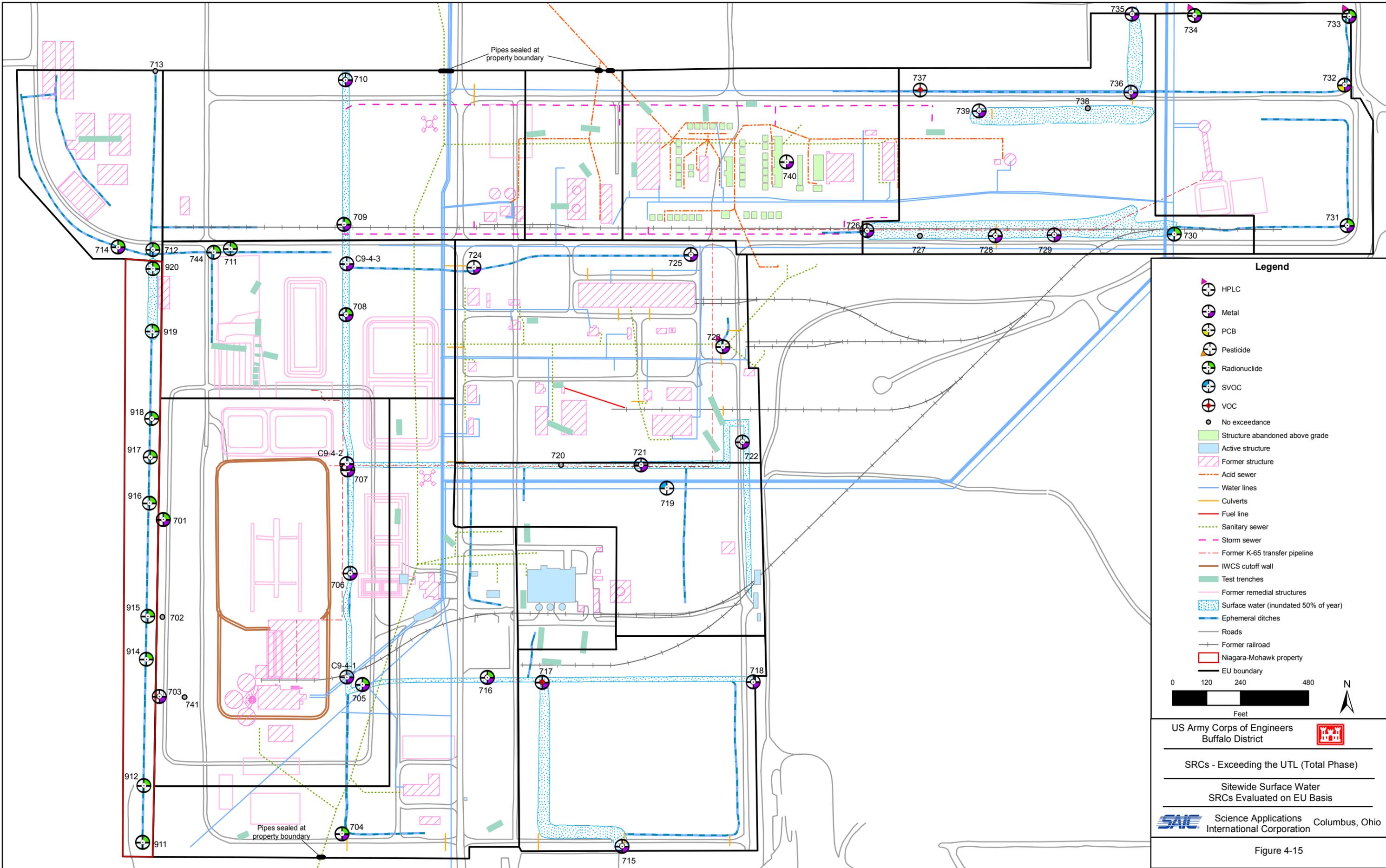
Sample Locations

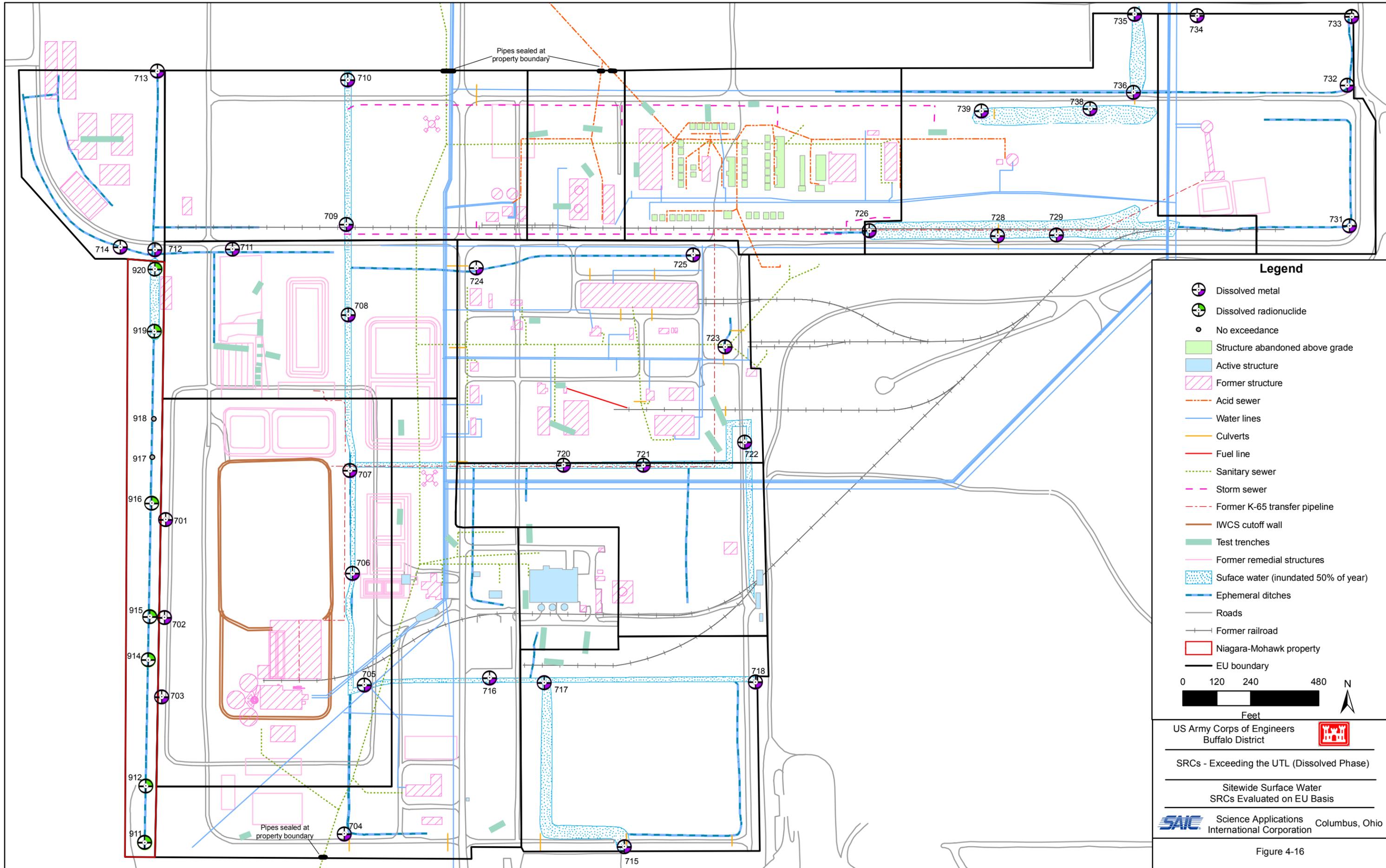
EU 14



Science Applications International Corporation Columbus, Ohio

Figure 4-14b





Legend

- Dissolved metal
- Dissolved radionuclide
- No exceedance
- Structure abandoned above grade
- Active structure
- Former structure
- Acid sewer
- Water lines
- Culverts
- Fuel line
- Sanitary sewer
- Storm sewer
- Former K-65 transfer pipeline
- IWCS cutoff wall
- Test trenches
- Former remedial structures
- Surface water (inundated 50% of year)
- Ephemeral ditches
- Roads
- Former railroad
- Niagara-Mohawk property
- EU boundary



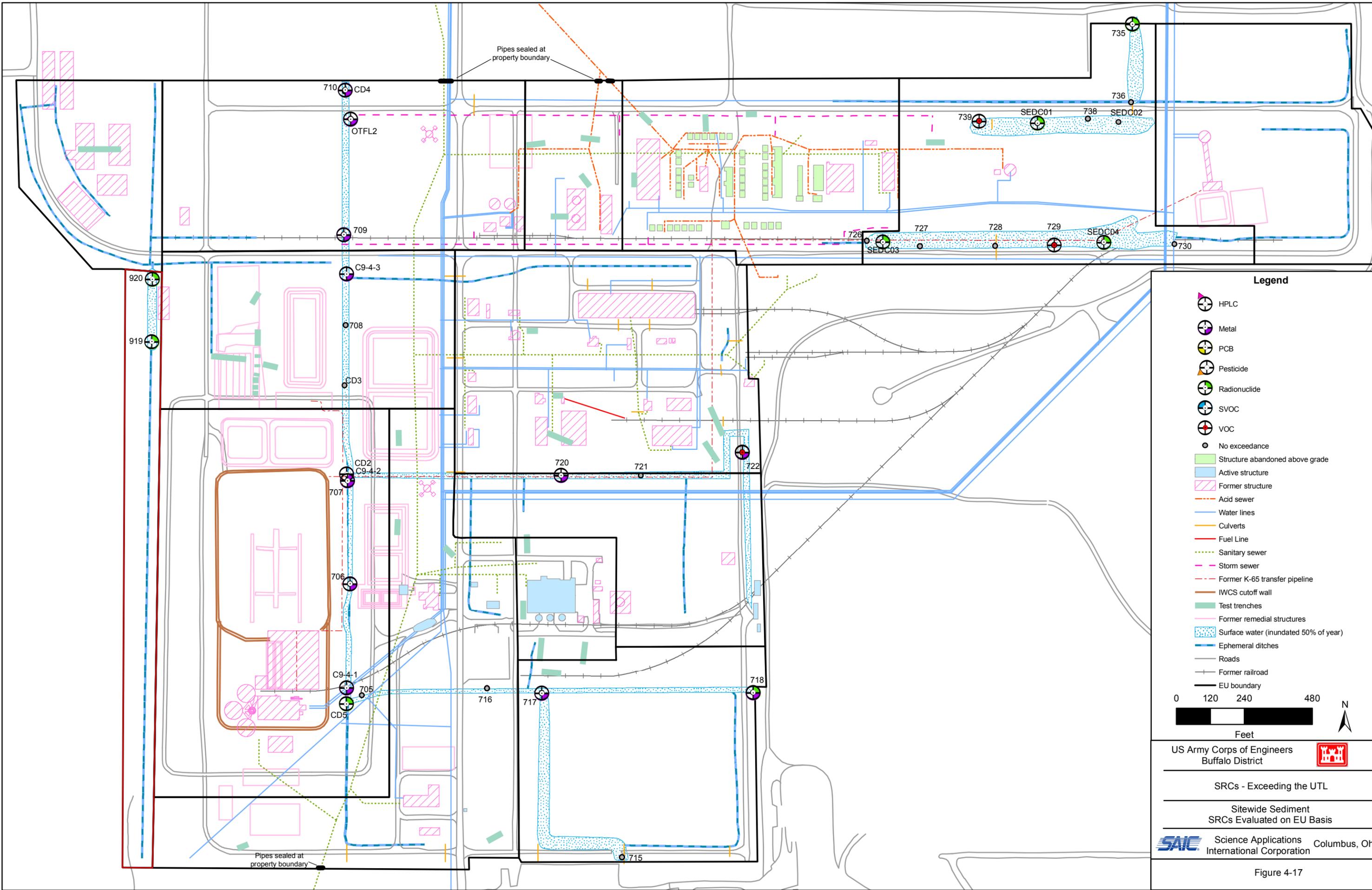
US Army Corps of Engineers
Buffalo District

SRCs - Exceeding the UTL (Dissolved Phase)

Sitewide Surface Water
SRCs Evaluated on EU Basis

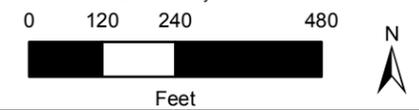
SAIC Science Applications International Corporation Columbus, Ohio

Figure 4-16



Legend

- HPLC
- Metal
- PCB
- Pesticide
- Radionuclide
- SVOC
- VOC
- No exceedance
- Structure abandoned above grade
- Active structure
- Former structure
- Acid sewer
- Water lines
- Culverts
- Fuel Line
- Sanitary sewer
- Storm sewer
- Former K-65 transfer pipeline
- IWCS cutoff wall
- Test trenches
- Former remedial structures
- Surface water (inundated 50% of year)
- Ephemeral ditches
- Roads
- Former railroad
- EU boundary



US Army Corps of Engineers
Buffalo District

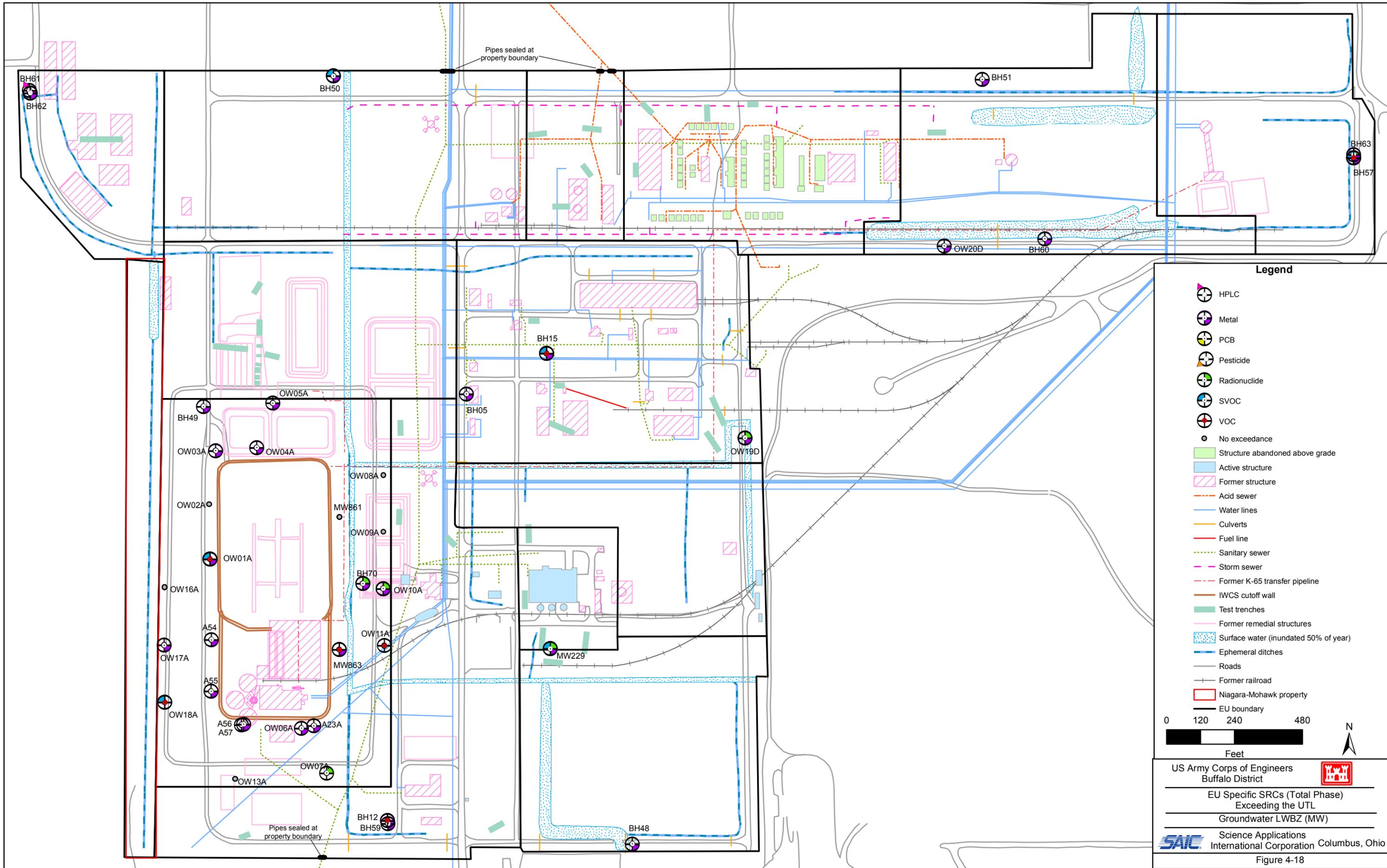


SRCs - Exceeding the UTL

Sitewide Sediment
SRCs Evaluated on EU Basis

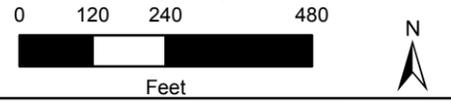
SAIC Science Applications International Corporation Columbus, Ohio

Figure 4-17



Legend

- HPLC
- Metal
- PCB
- Pesticide
- Radionuclide
- SVOC
- VOC
- No exceedance
- Structure abandoned above grade
- Active structure
- Former structure
- Acid sewer
- Water lines
- Culverts
- Fuel line
- Sanitary sewer
- Storm sewer
- Former K-65 transfer pipeline
- IWCS cutoff wall
- Test trenches
- Former remedial structures
- Surface water (inundated 50% of year)
- Ephemeral ditches
- Roads
- Former railroad
- Niagara-Mohawk property
- EU boundary

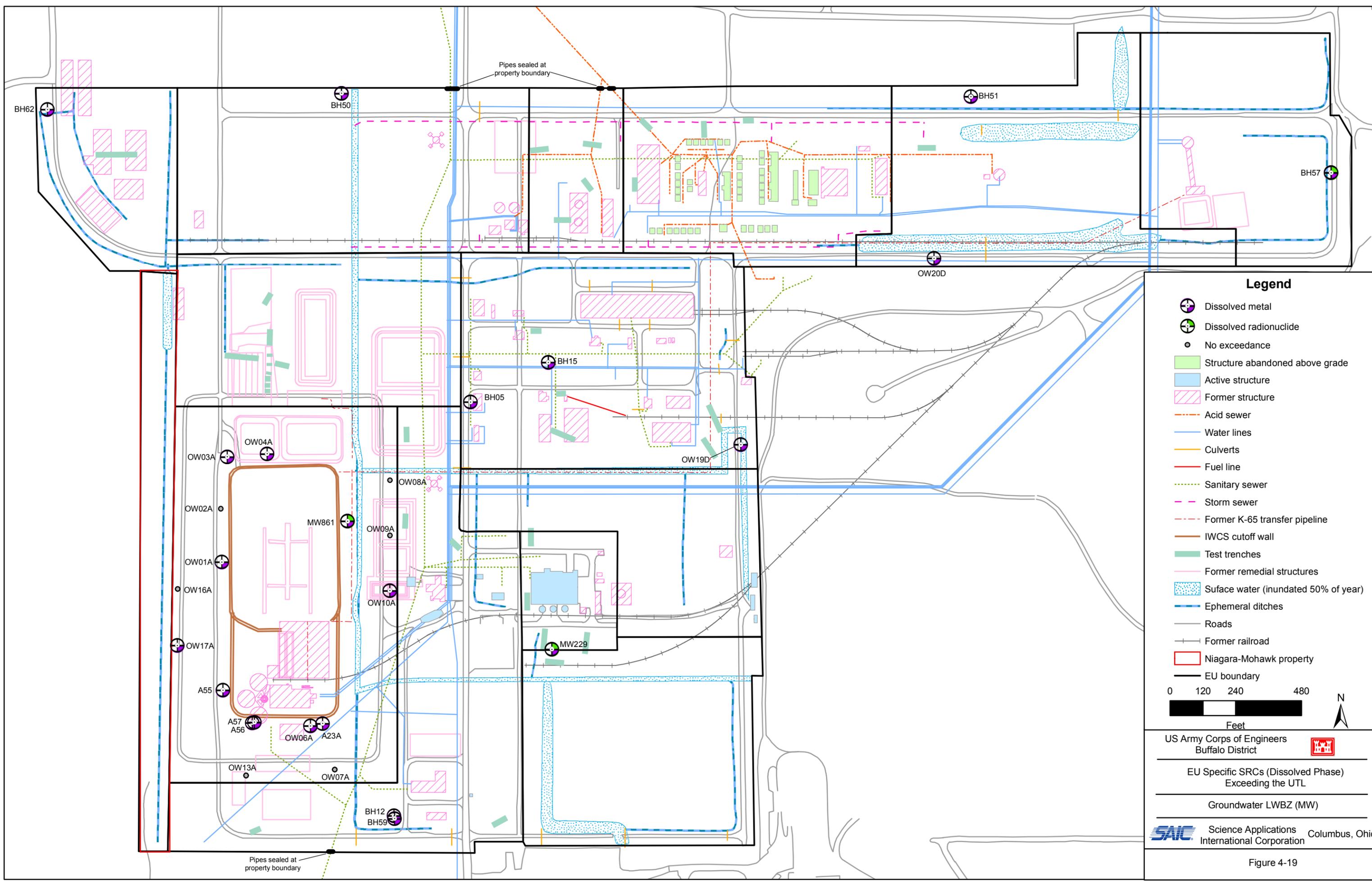


US Army Corps of Engineers
Buffalo District

EU Specific SRCs (Total Phase)
Exceeding the UTL
Groundwater LWBZ (MW)

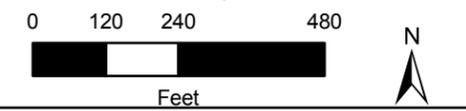
SAIC Science Applications
International Corporation Columbus, Ohio

Figure 4-18



Legend

- Dissolved metal
- Dissolved radionuclide
- No exceedance
- Structure abandoned above grade
- Active structure
- Former structure
- Acid sewer
- Water lines
- Culverts
- Fuel line
- Sanitary sewer
- Storm sewer
- Former K-65 transfer pipeline
- IWCS cutoff wall
- Test trenches
- Former remedial structures
- Surface water (inundated 50% of year)
- Ephemeral ditches
- Roads
- Former railroad
- Niagara-Mohawk property
- EU boundary



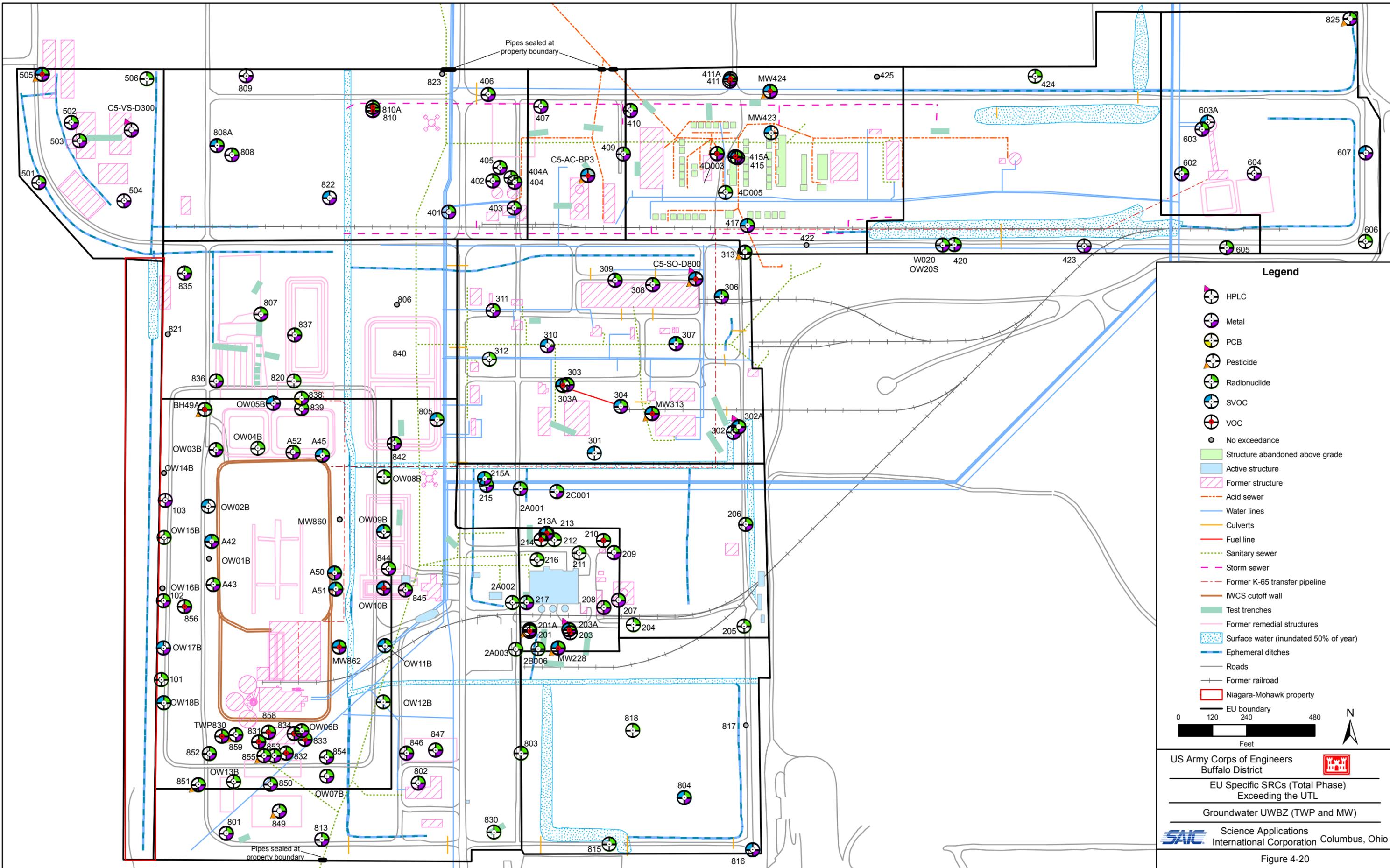
US Army Corps of Engineers
Buffalo District

EU Specific SRCs (Dissolved Phase)
Exceeding the UTL

Groundwater LWBZ (MW)

SAIC Science Applications International Corporation Columbus, Ohio

Figure 4-19



Legend

- HPLC
- Metal
- PCB
- Pesticide
- Radionuclide
- SVOC
- VOC
- No exceedance
- Structure abandoned above grade
- Active structure
- Former structure
- Acid sewer
- Water lines
- Culverts
- Fuel line
- Sanitary sewer
- Storm sewer
- Former K-65 transfer pipeline
- IWCS cutoff wall
- Test trenches
- Former remedial structures
- Surface water (inundated 50% of year)
- Ephemeral ditches
- Roads
- Former railroad
- Niagara-Mohawk property
- EU boundary

0 120 240 480
Feet

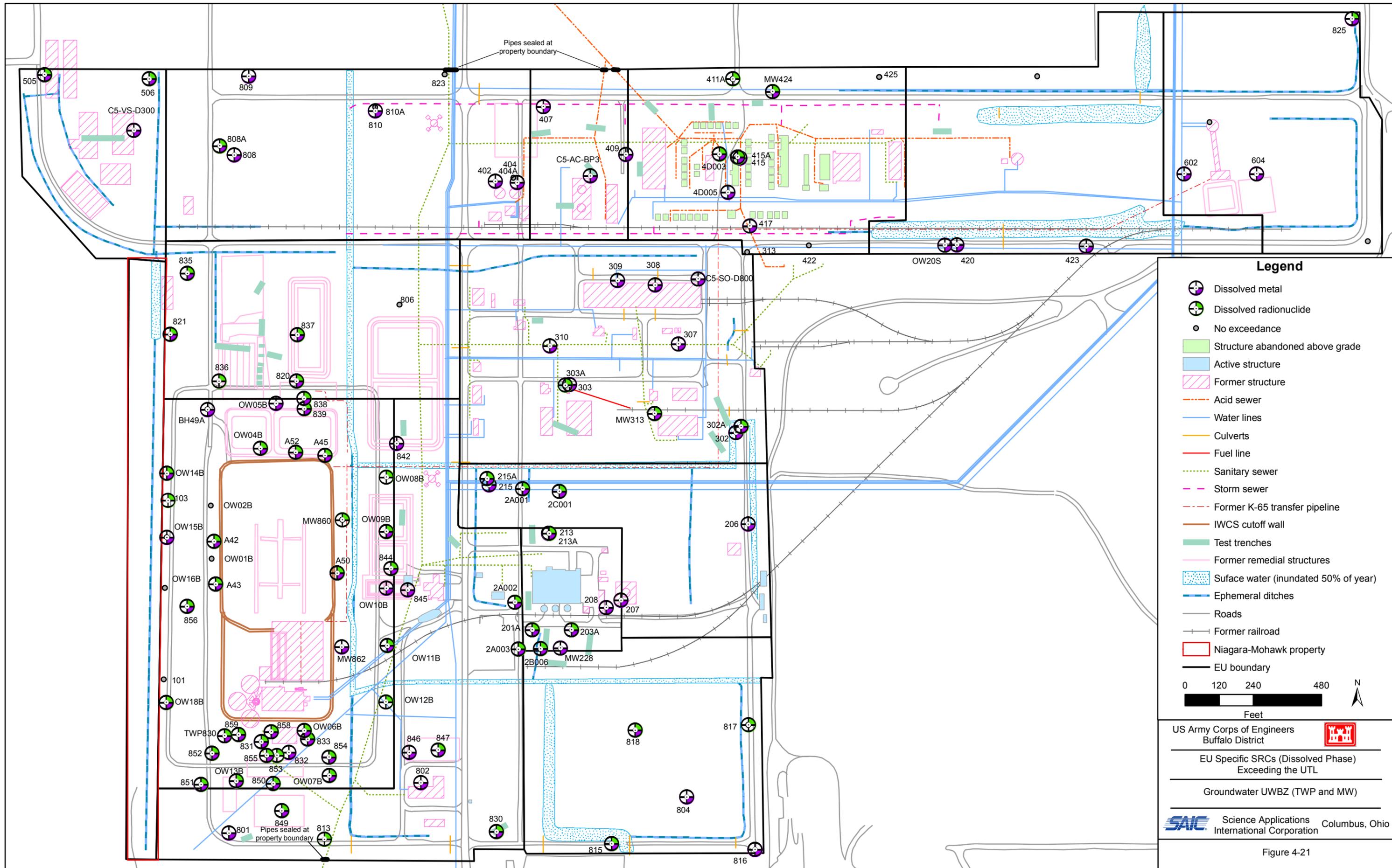
US Army Corps of Engineers
Buffalo District

EU Specific SRCs (Total Phase)
Exceeding the UTL

Groundwater UWBZ (TWP and MW)

Science Applications
International Corporation Columbus, Ohio

Figure 4-20



Legend

- Dissolved metal
- Dissolved radionuclide
- No exceedance
- Structure abandoned above grade
- Active structure
- Former structure
- Acid sewer
- Water lines
- Culverts
- Fuel line
- Sanitary sewer
- Storm sewer
- Former K-65 transfer pipeline
- IWCS cutoff wall
- Test trenches
- Former remedial structures
- Surface water (inundated 50% of year)
- Ephemeral ditches
- Roads
- Former railroad
- Niagara-Mohawk property
- EU boundary

0 120 240 480
Feet

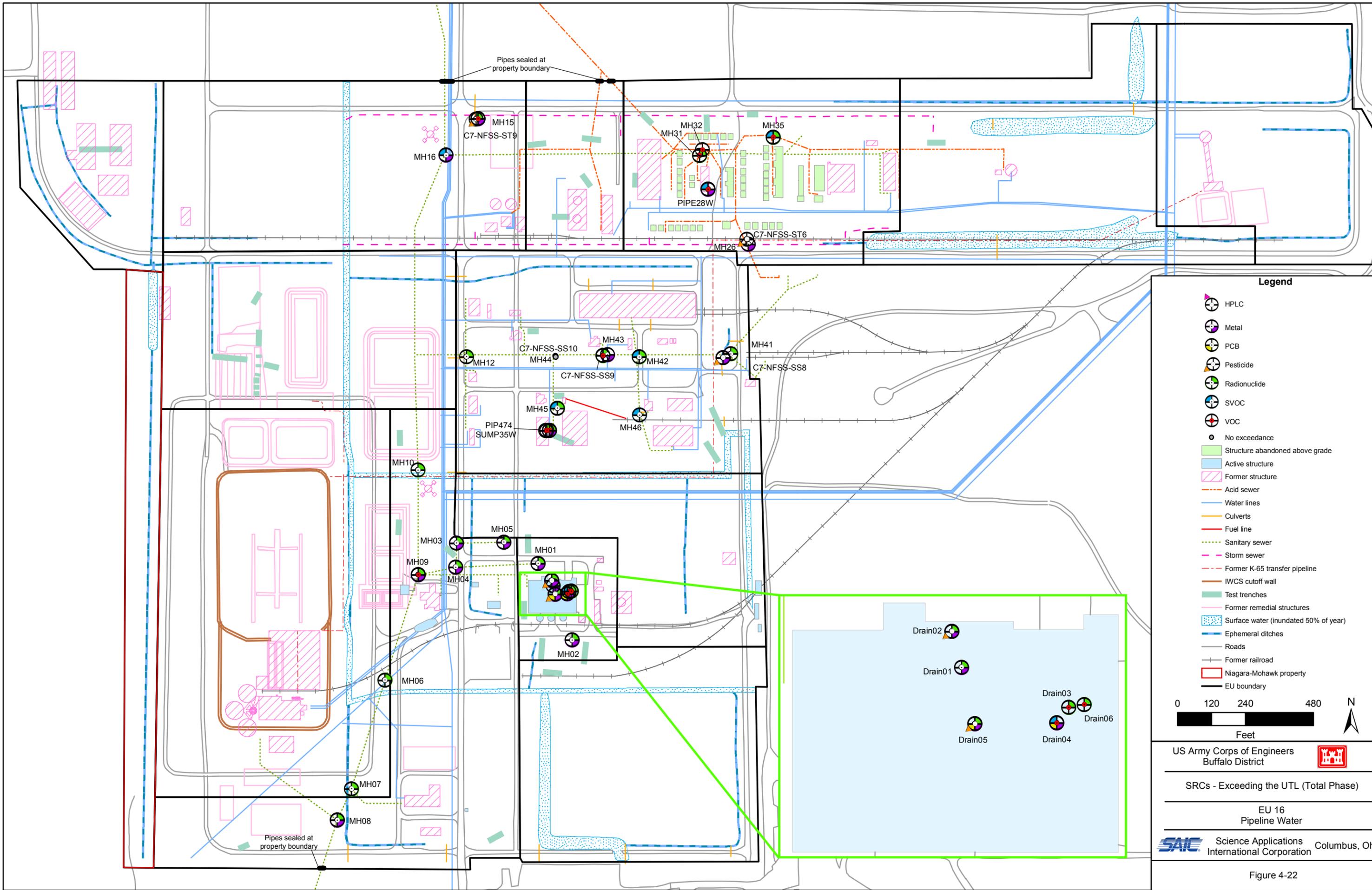
US Army Corps of Engineers
Buffalo District

EU Specific SRCs (Dissolved Phase)
Exceeding the UTL

Groundwater UWBZ (TWP and MW)

Science Applications International Corporation Columbus, Ohio

Figure 4-21



Legend

- HPLC
- Metal
- PCB
- Pesticide
- Radionuclide
- SVOC
- VOC
- No exceedance
- Structure abandoned above grade
- Active structure
- Former structure
- Acid sewer
- Water lines
- Culverts
- Fuel line
- Sanitary sewer
- Storm sewer
- Former K-65 transfer pipeline
- IWCS cutoff wall
- Test trenches
- Former remedial structures
- Surface water (inundated 50% of year)
- Ephemeral ditches
- Roads
- Former railroad
- Niagara-Mohawk property
- EU boundary

0 120 240 480 Feet

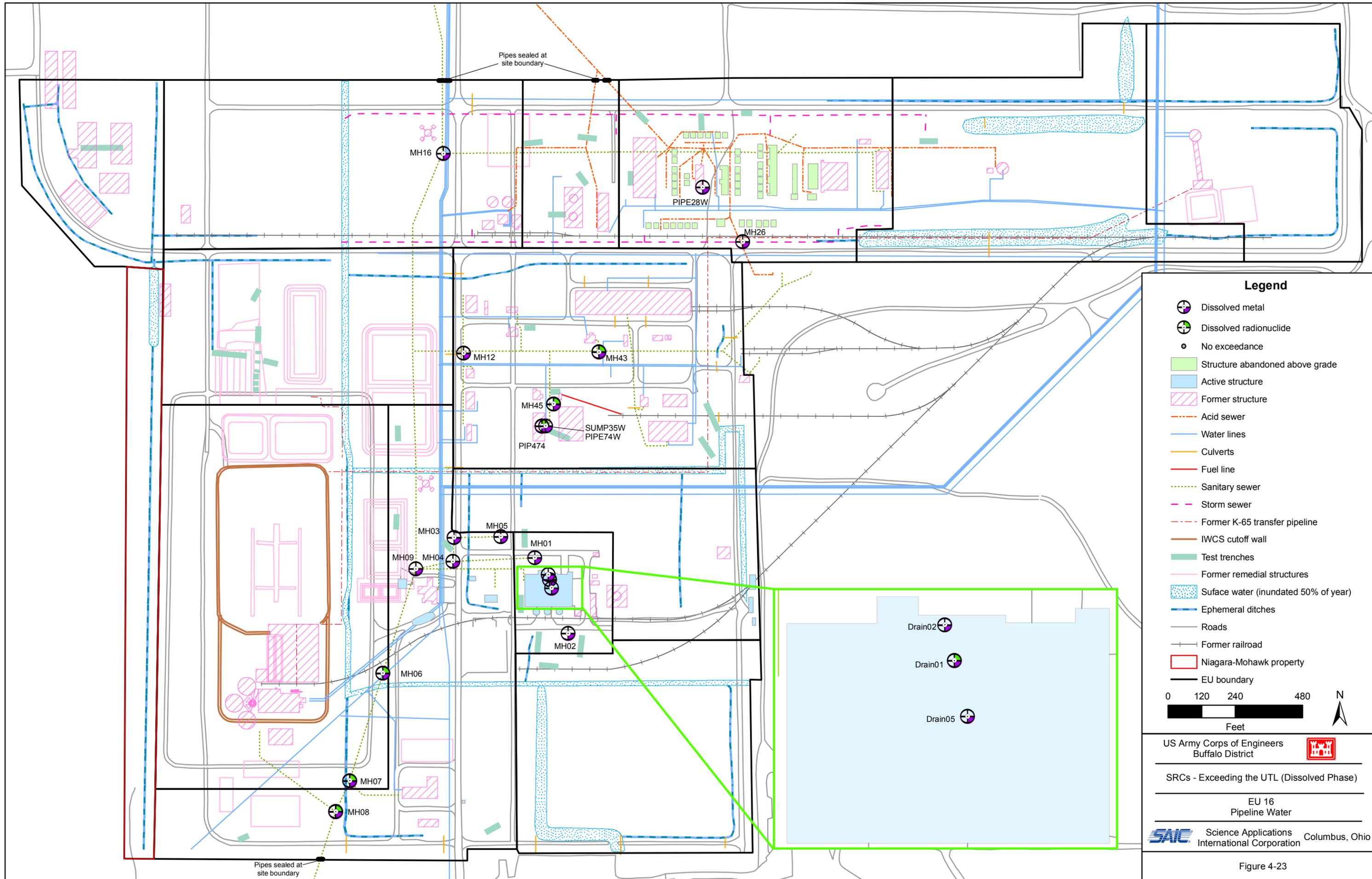
US Army Corps of Engineers
Buffalo District

SRCs - Exceeding the UTL (Total Phase)

EU 16
Pipeline Water

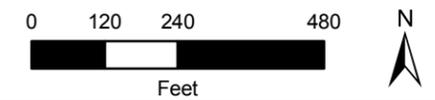
SAIC Science Applications International Corporation Columbus, Ohio

Figure 4-22



Legend

- Dissolved metal
- Dissolved radionuclide
- No exceedance
- Structure abandoned above grade
- Active structure
- Former structure
- Acid sewer
- Water lines
- Culverts
- Fuel line
- Sanitary sewer
- Storm sewer
- Former K-65 transfer pipeline
- IWCS cutoff wall
- Test trenches
- Former remedial structures
- Surface water (inundated 50% of year)
- Ephemerical ditches
- Roads
- Former railroad
- Niagara-Mohawk property
- EU boundary



US Army Corps of Engineers
Buffalo District

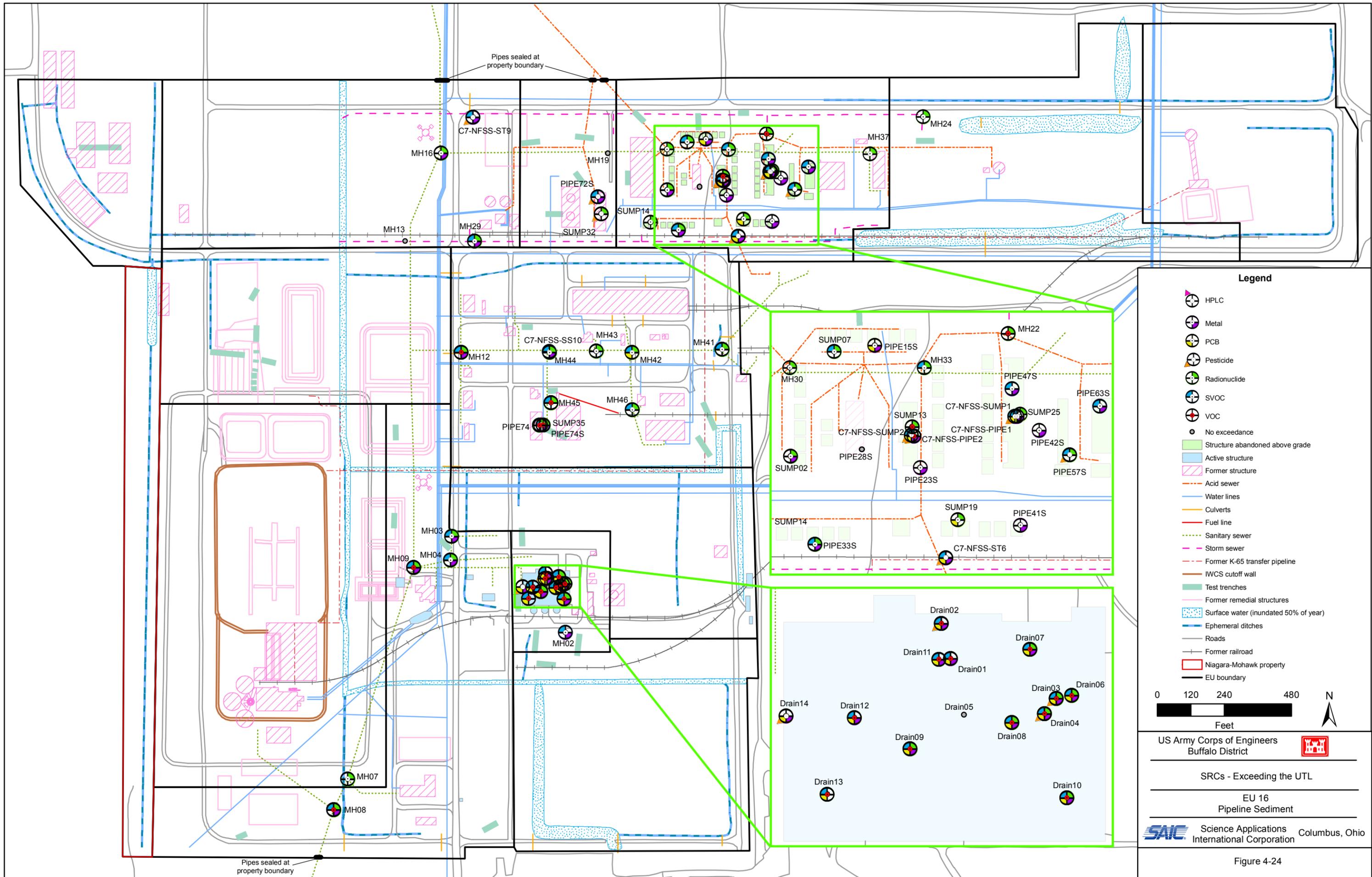


SRCs - Exceeding the UTL (Dissolved Phase)

EU 16
Pipeline Water

SAIC Science Applications International Corporation Columbus, Ohio

Figure 4-23



Legend

- HPLC
- Metal
- PCB
- Pesticide
- Radionuclide
- SVOC
- VOC
- No exceedance
- Structure abandoned above grade
- Active structure
- Former structure
- Acid sewer
- Water lines
- Culverts
- Fuel line
- Sanitary sewer
- Storm sewer
- Former K-65 transfer pipeline
- IWCS cutoff wall
- Test trenches
- Former remedial structures
- Surface water (inundated 50% of year)
- Ephemeral ditches
- Roads
- Former railroad
- Niagara-Mohawk property
- EU boundary

0 120 240 480 Feet

US Army Corps of Engineers Buffalo District

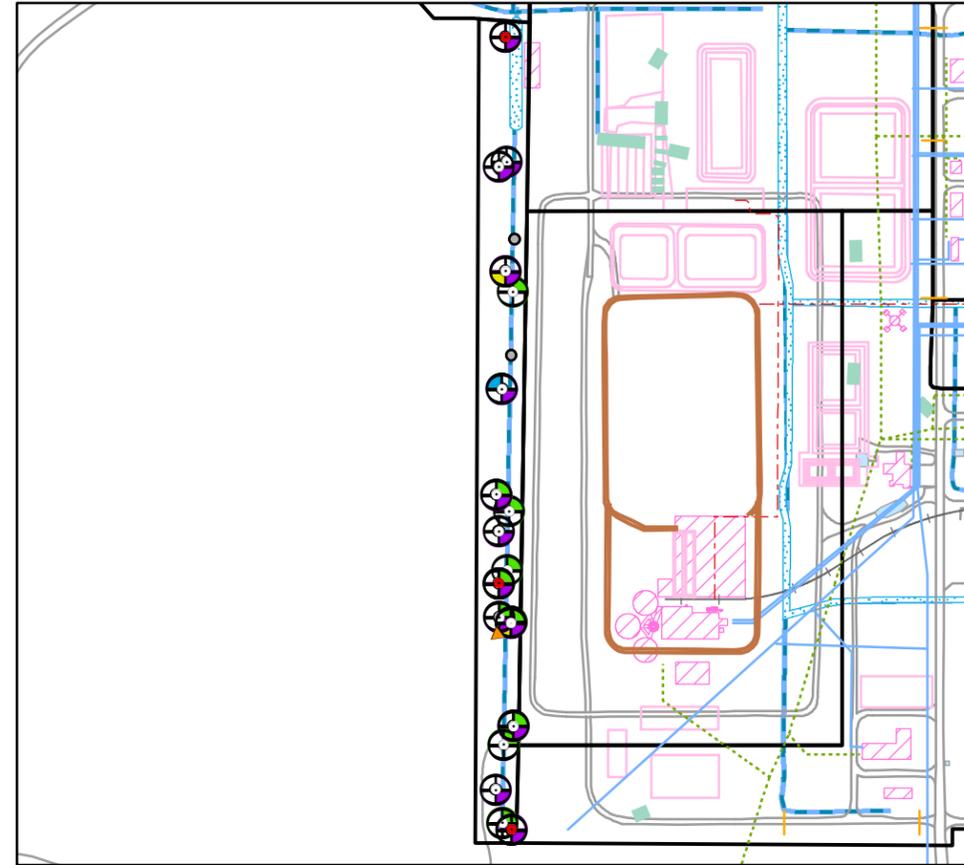
SRCs - Exceeding the UTL

EU 16 Pipeline Sediment

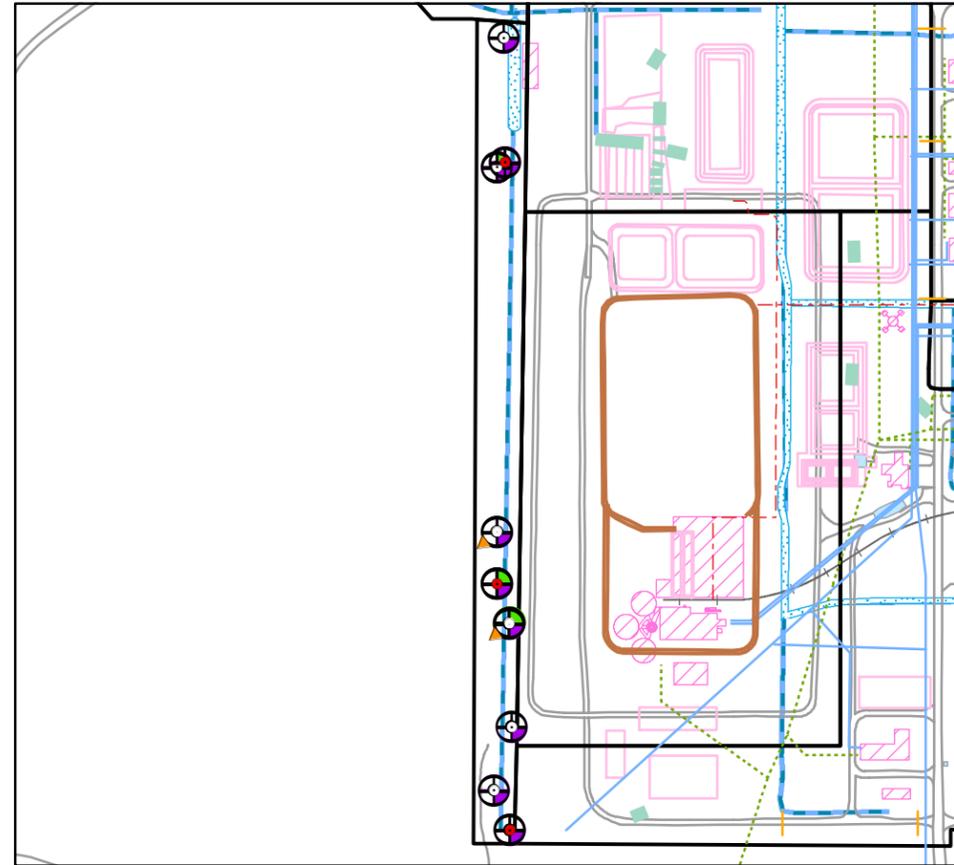
SAIC Science Applications International Corporation Columbus, Ohio

Figure 4-24

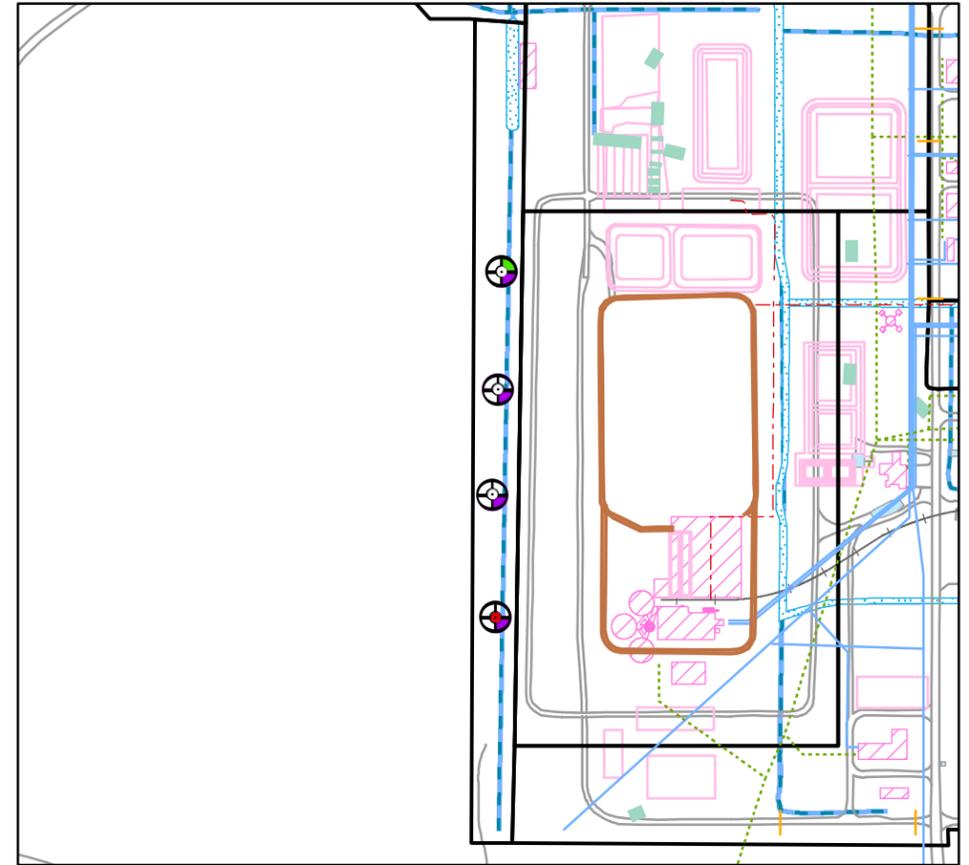
Surface Soil 0-0.5'



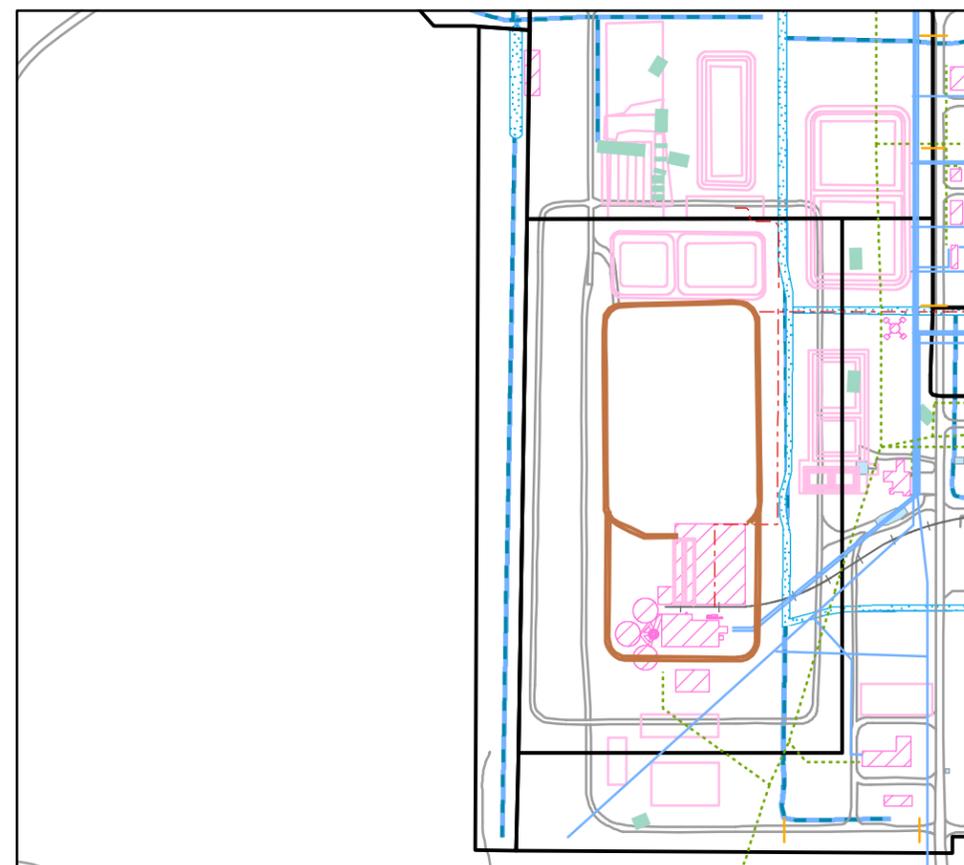
Subsurface Soil 0.5-2'



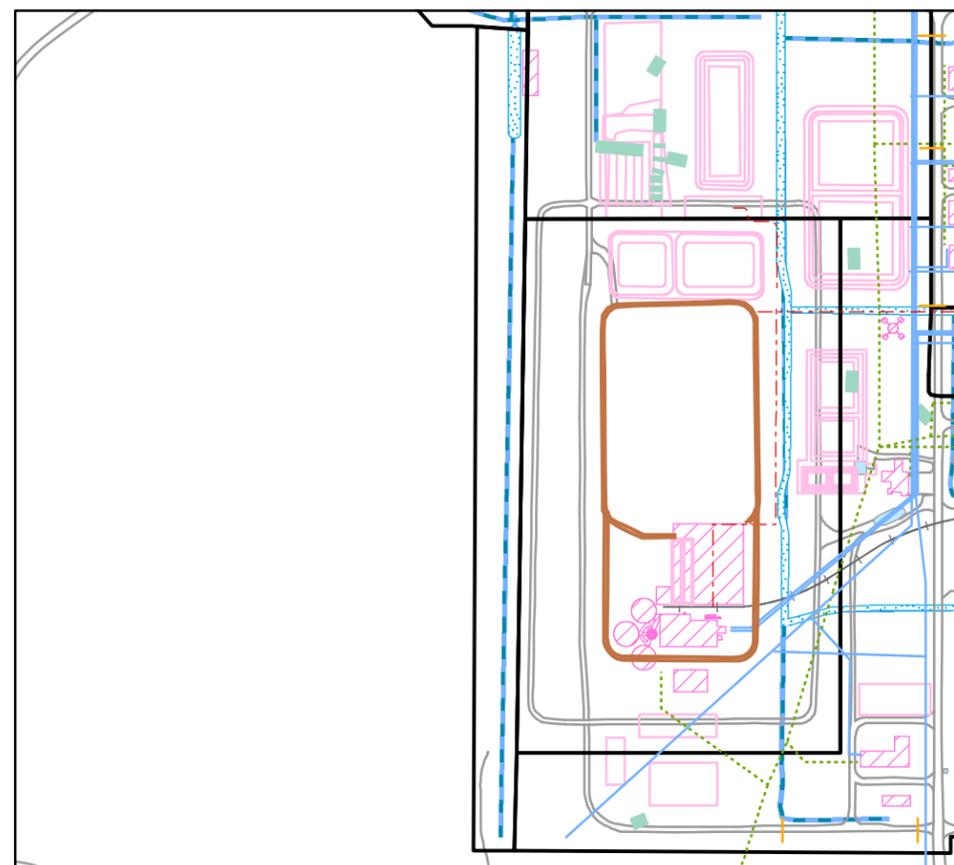
Subsurface Soil 2-5'



Subsurface Soil 5-10'

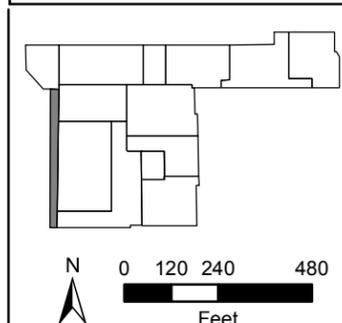


Subsurface Soil > 10'



Sitewide Legend

<ul style="list-style-type: none"> Metal PCB Pesticide Radionuclide SVOC VOC No Exceedance Structure abandoned above grade Active structure Former structure IWCS cutoff wall Test trenches 	<ul style="list-style-type: none"> Former K-65 transfer pipeline Acid sewer Water lines Culverts Fuel line Sanitary sewer Storm sewer Former remedial structures Former railroad Roads Surface water (inundated 50% of year) Ephemeral ditches EU boundary
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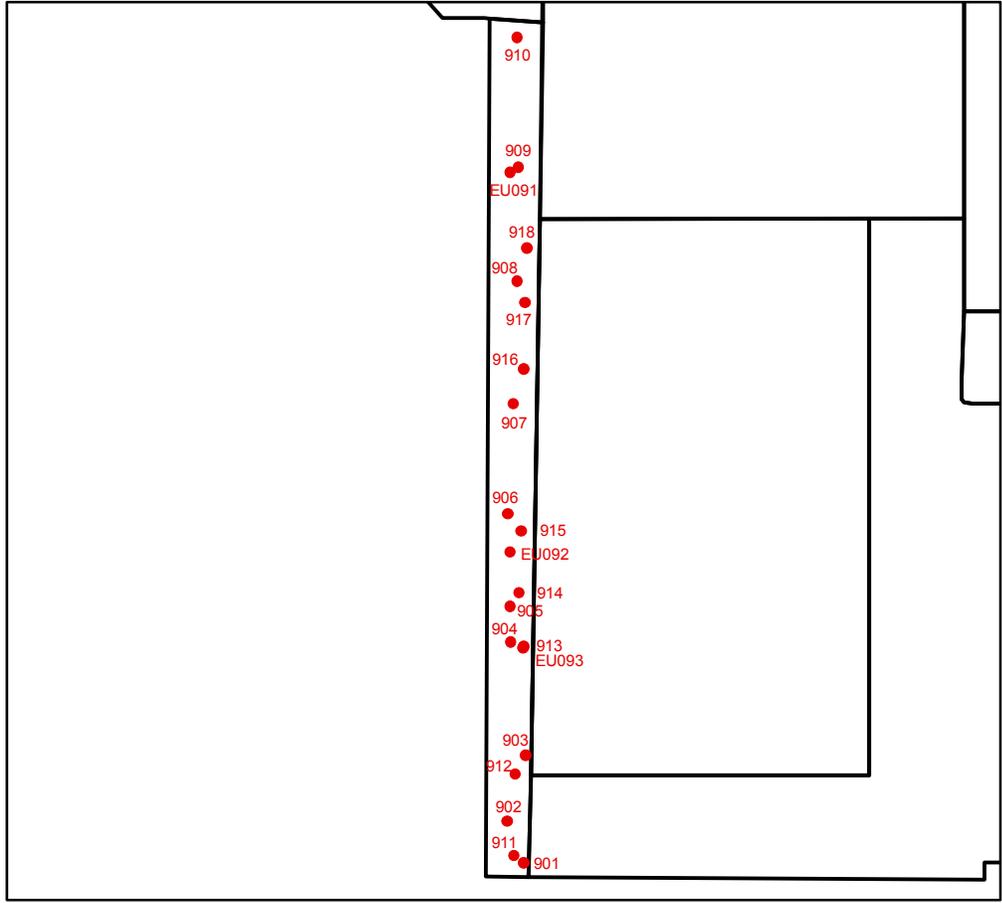
US Army Corps of Engineers
Buffalo District

SRCs - Exceeding the UTL

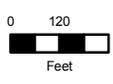
EU 9

SAIC Science Applications International Corporation Columbus, Ohio

Figure 4-25a



- Phase 1
- Phase 2
- Phase 3



US Army Corps of Engineers
Buffalo District



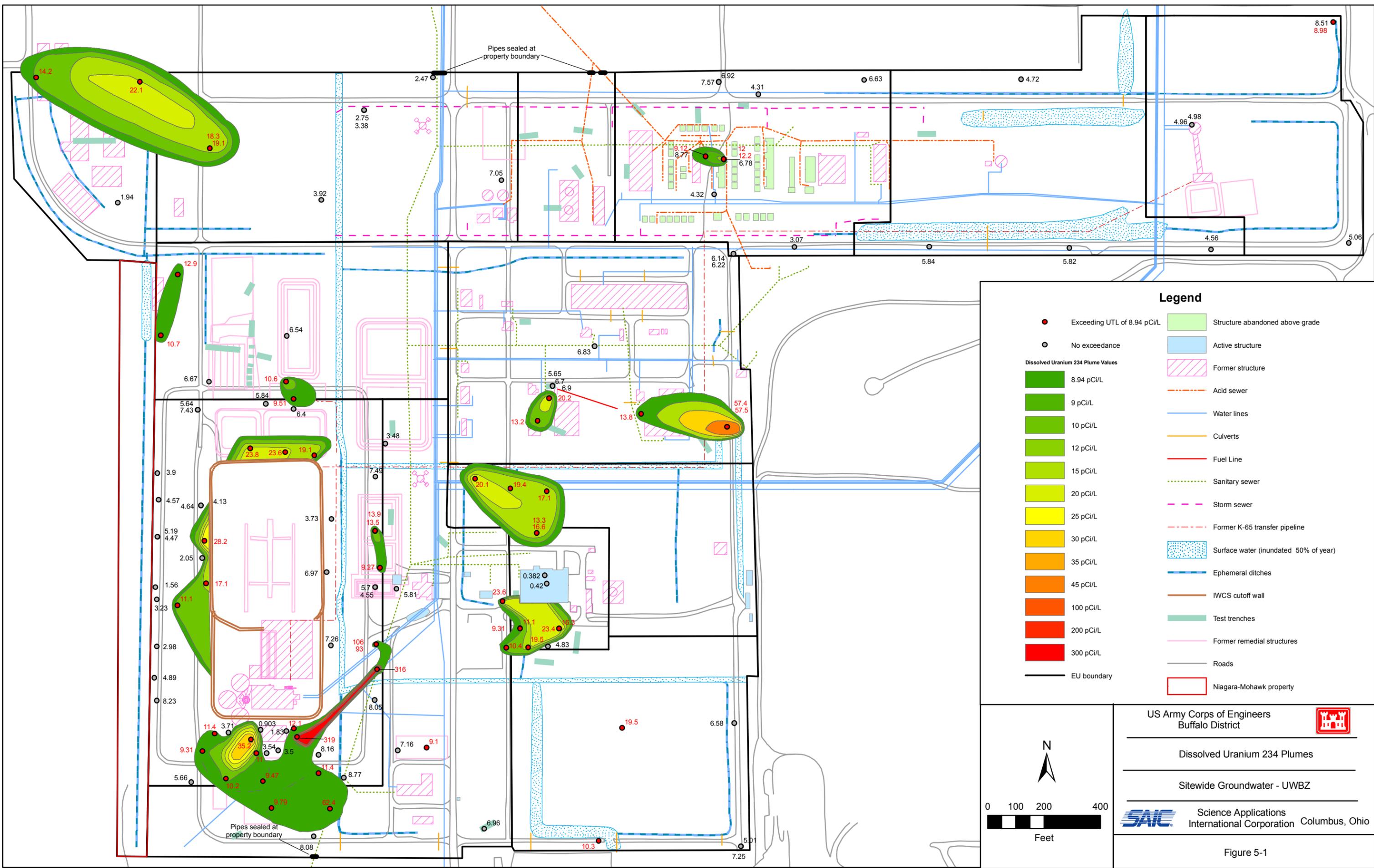
Sample Locations

EU 9



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Columbus, Ohio

Figure 4-25b



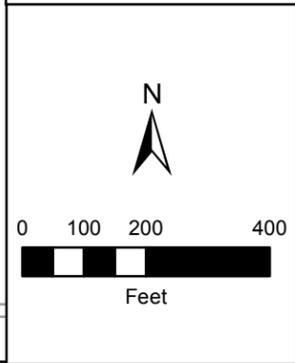
Legend

- Exceeding UTL of 8.94 pCi/L
- No exceedance

Dissolved Uranium 234 Plume Values

- 8.94 pCi/L
- 9 pCi/L
- 10 pCi/L
- 12 pCi/L
- 15 pCi/L
- 20 pCi/L
- 25 pCi/L
- 30 pCi/L
- 35 pCi/L
- 45 pCi/L
- 100 pCi/L
- 200 pCi/L
- 300 pCi/L

- Structure abandoned above grade
- Active structure
- Former structure
- Acid sewer
- Water lines
- Culverts
- Fuel Line
- Sanitary sewer
- Storm sewer
- Former K-65 transfer pipeline
- Surface water (inundated 50% of year)
- Ephemeral ditches
- IWCS cutoff wall
- Test trenches
- Former remedial structures
- Roads
- Niagara-Mohawk property



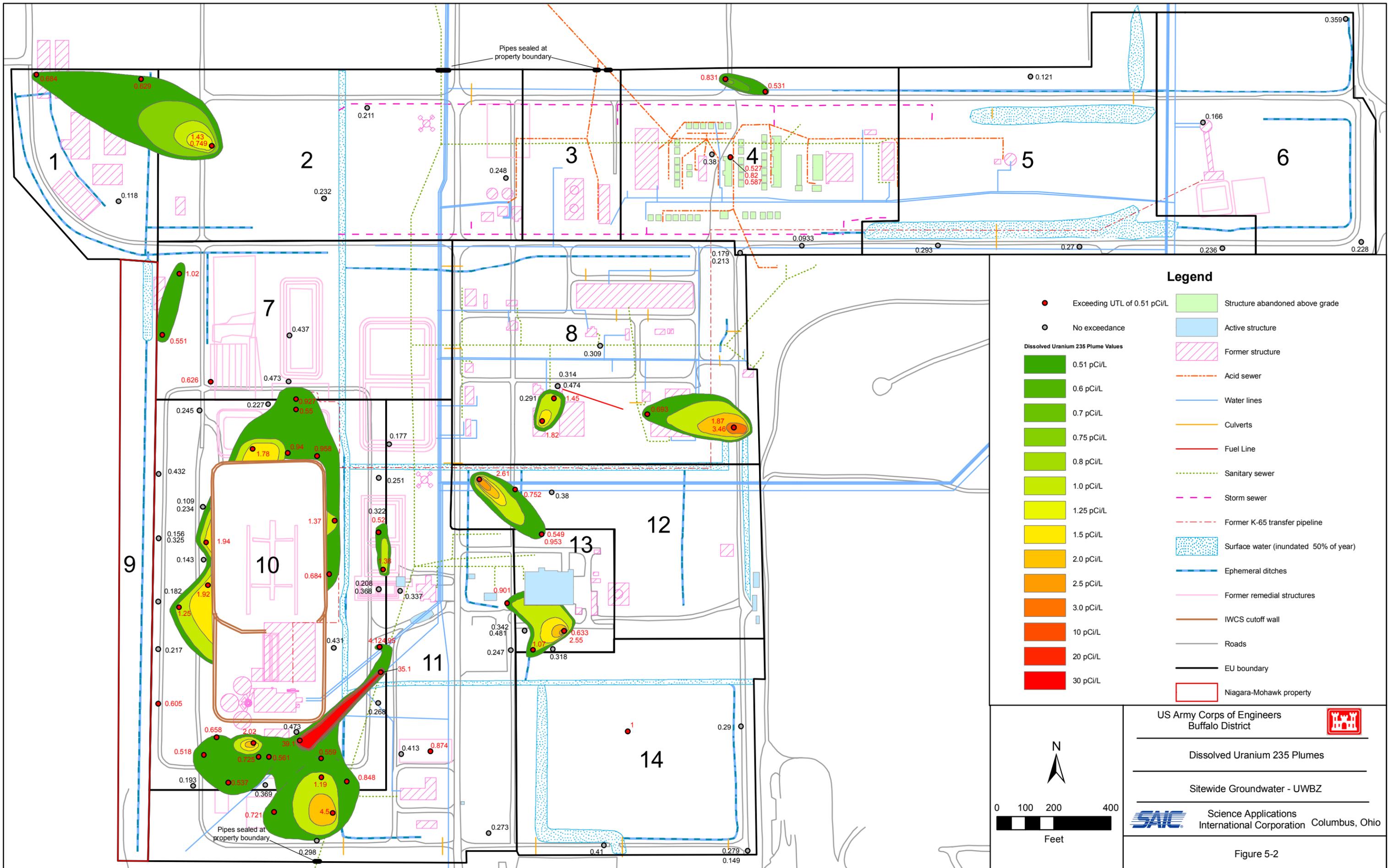
US Army Corps of Engineers
Buffalo District

Dissolved Uranium 234 Plumes

Sitewide Groundwater - UWBZ

Science Applications
International Corporation Columbus, Ohio

Figure 5-1



US Army Corps of Engineers
Buffalo District

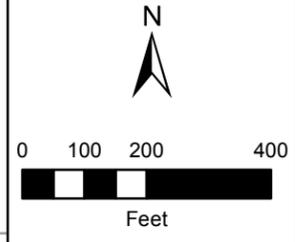


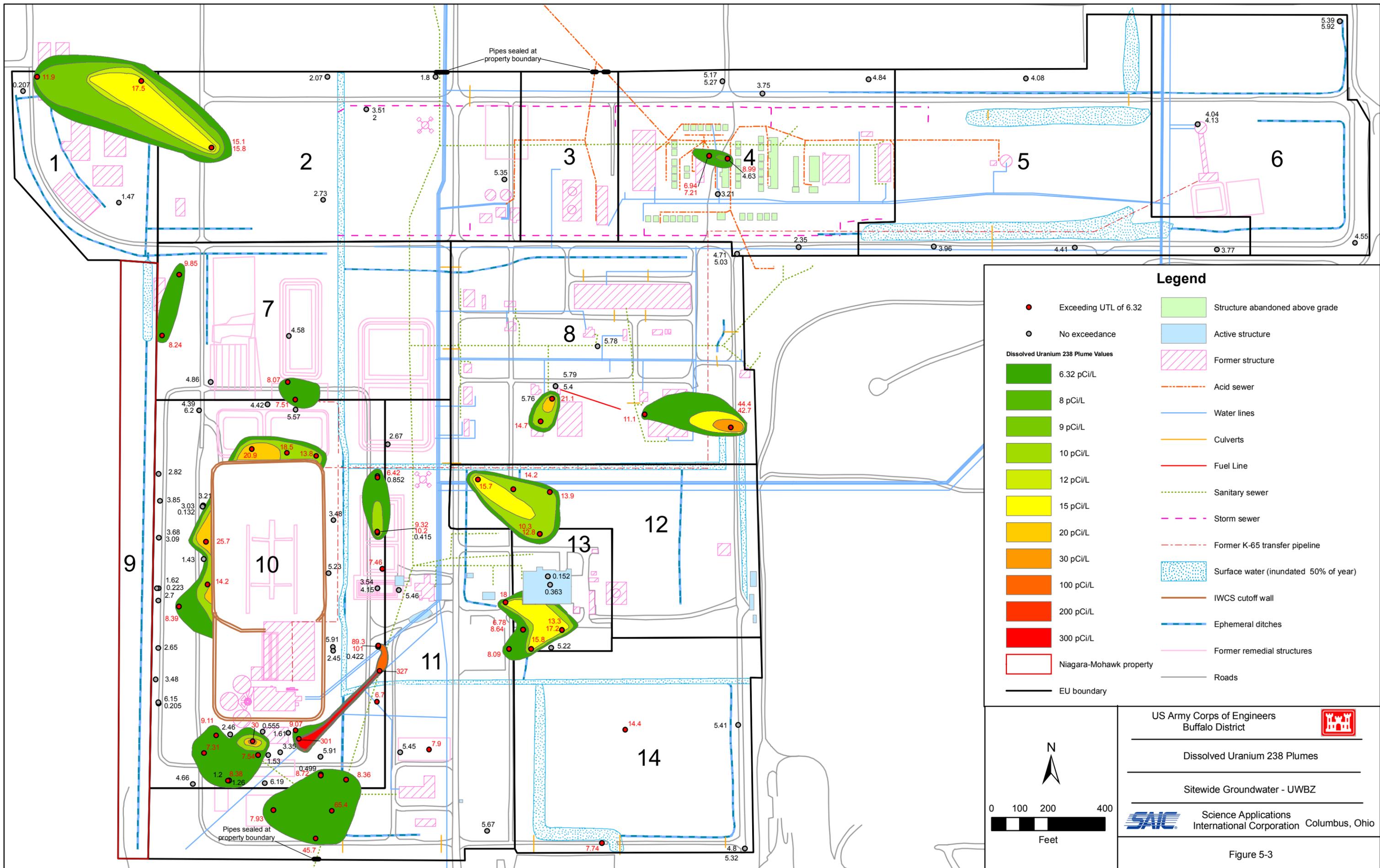
Dissolved Uranium 235 Plumes

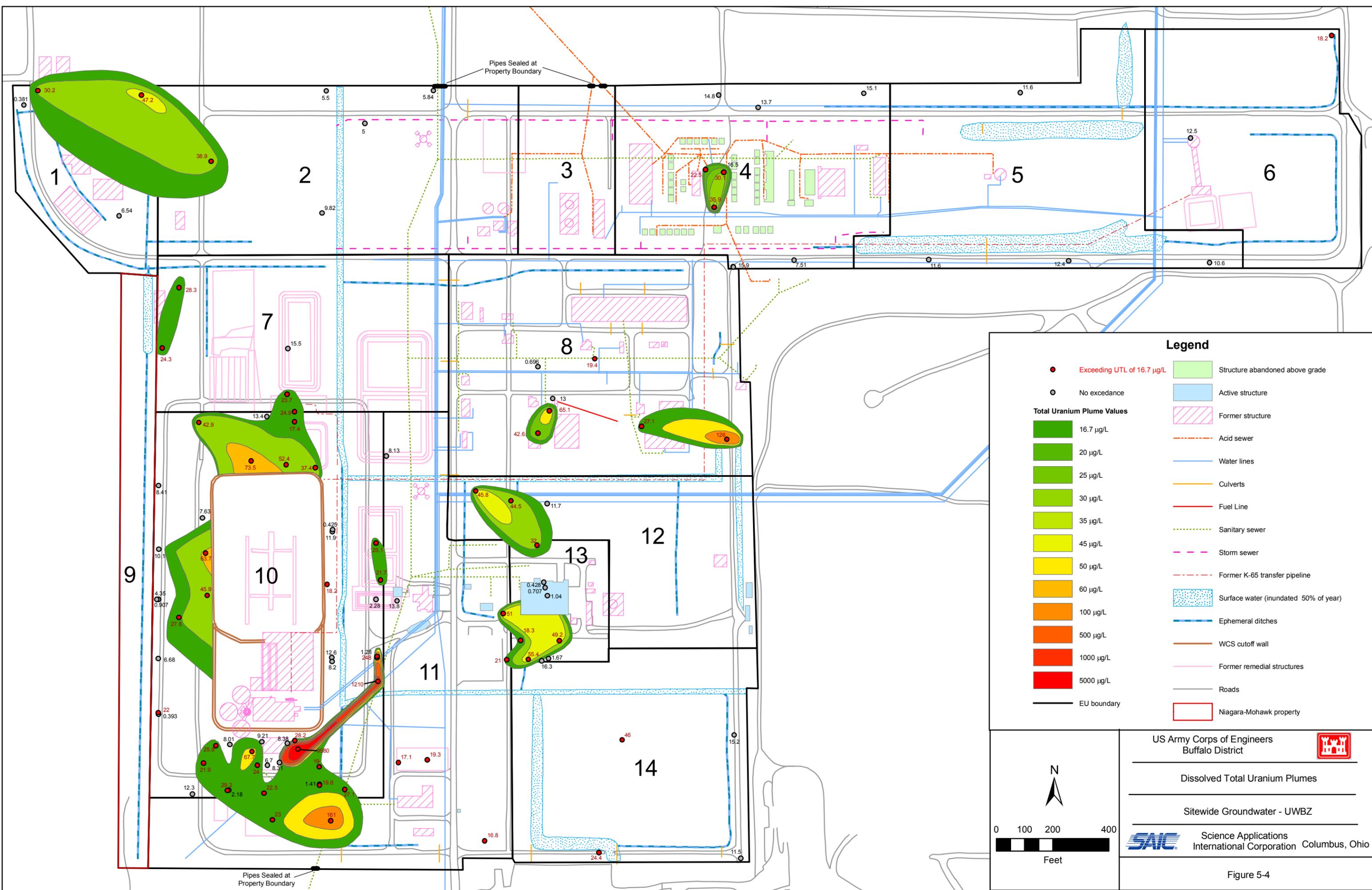
Sitewide Groundwater - UWZ

SAIC Science Applications
International Corporation Columbus, Ohio

Figure 5-2

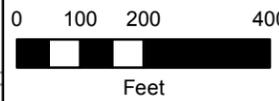






Pipes Sealed at Property Boundary

Pipes Sealed at Property Boundary



US Army Corps of Engineers
Buffalo District



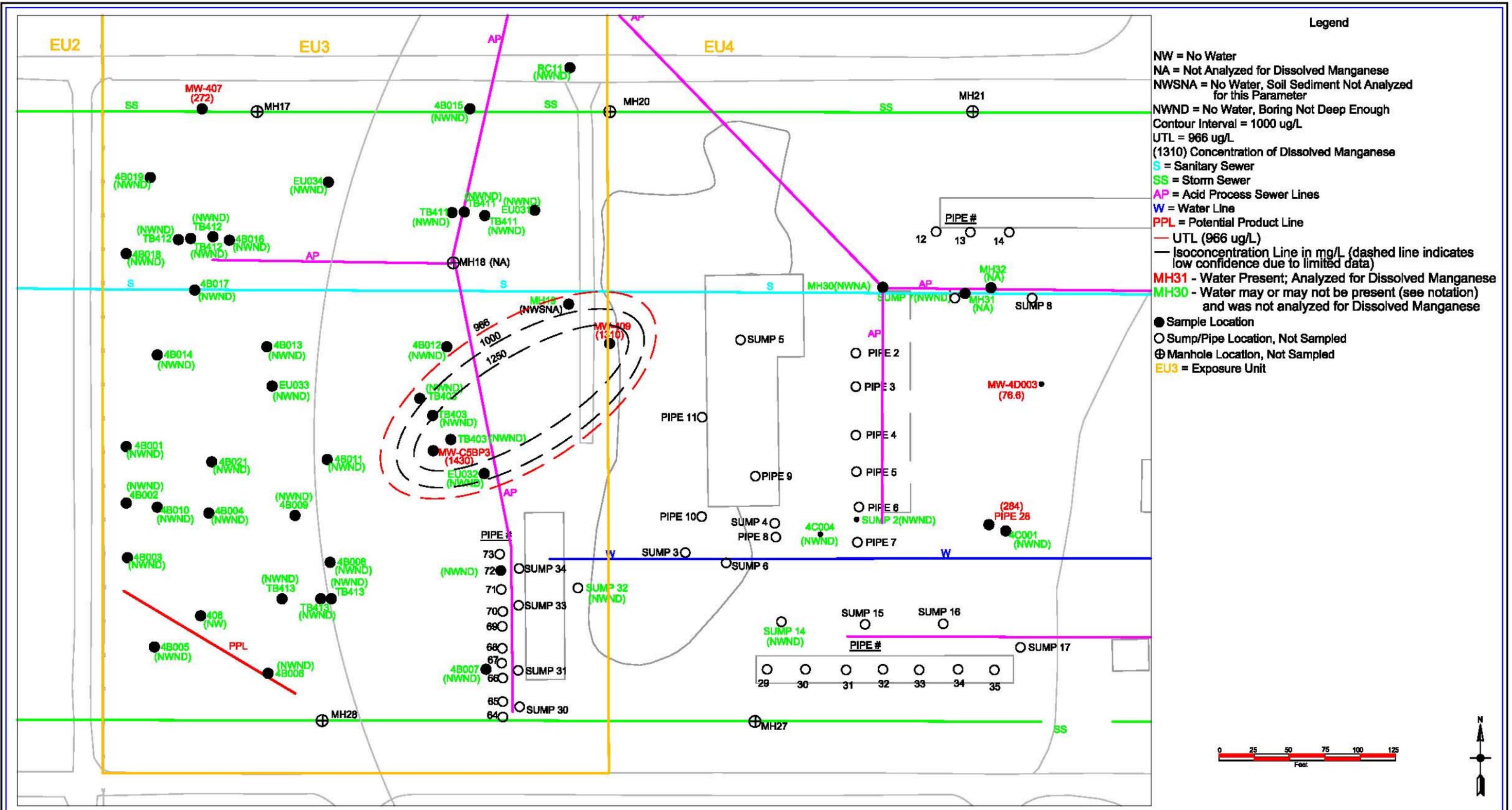
Dissolved Total Uranium Plumes

Sitewide Groundwater - UWBZ



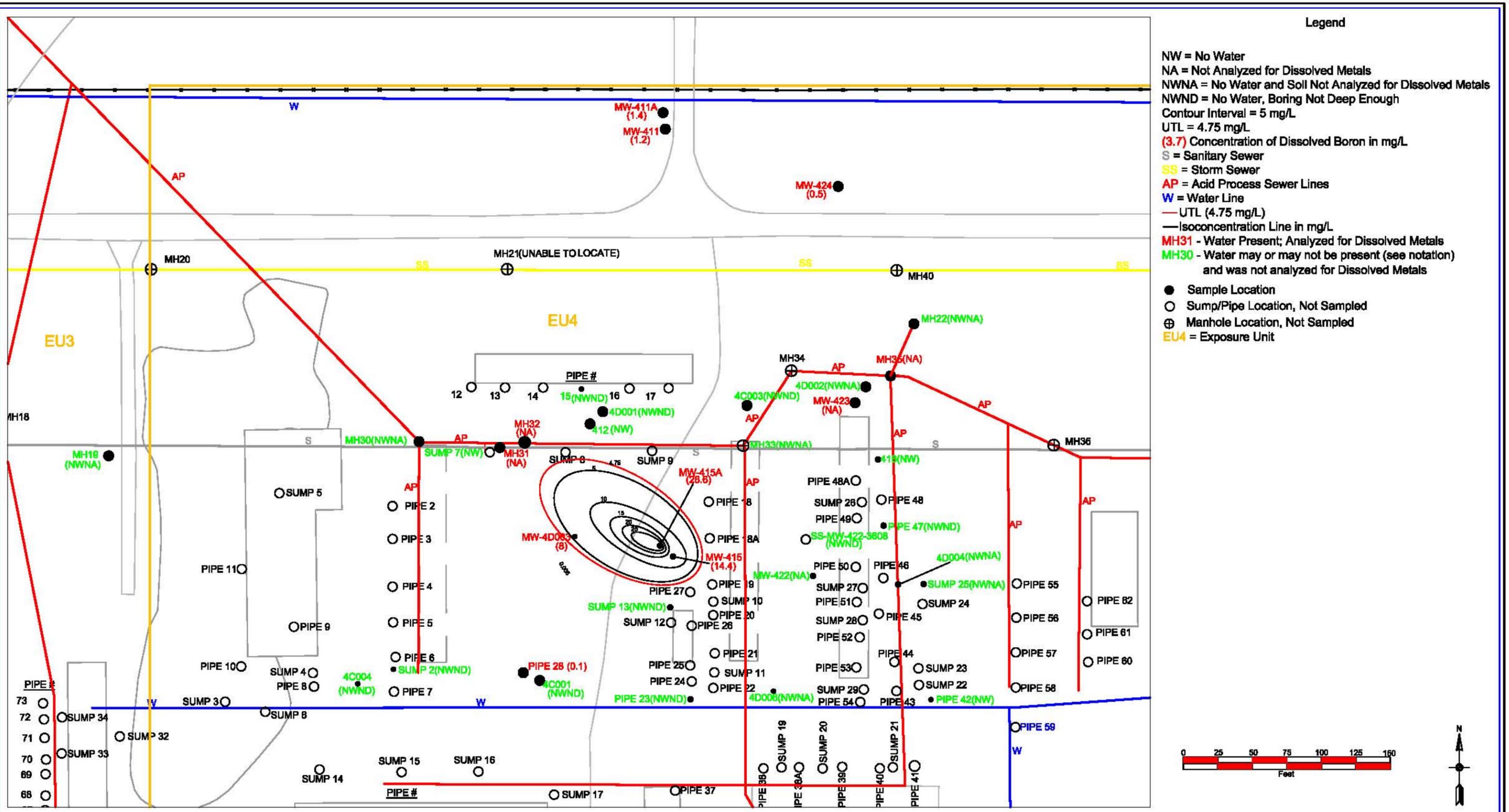
Science Applications
International Corporation Columbus, Ohio

Figure 5-4



Distribution of Dissolved Manganese in the Groundwater in EU3

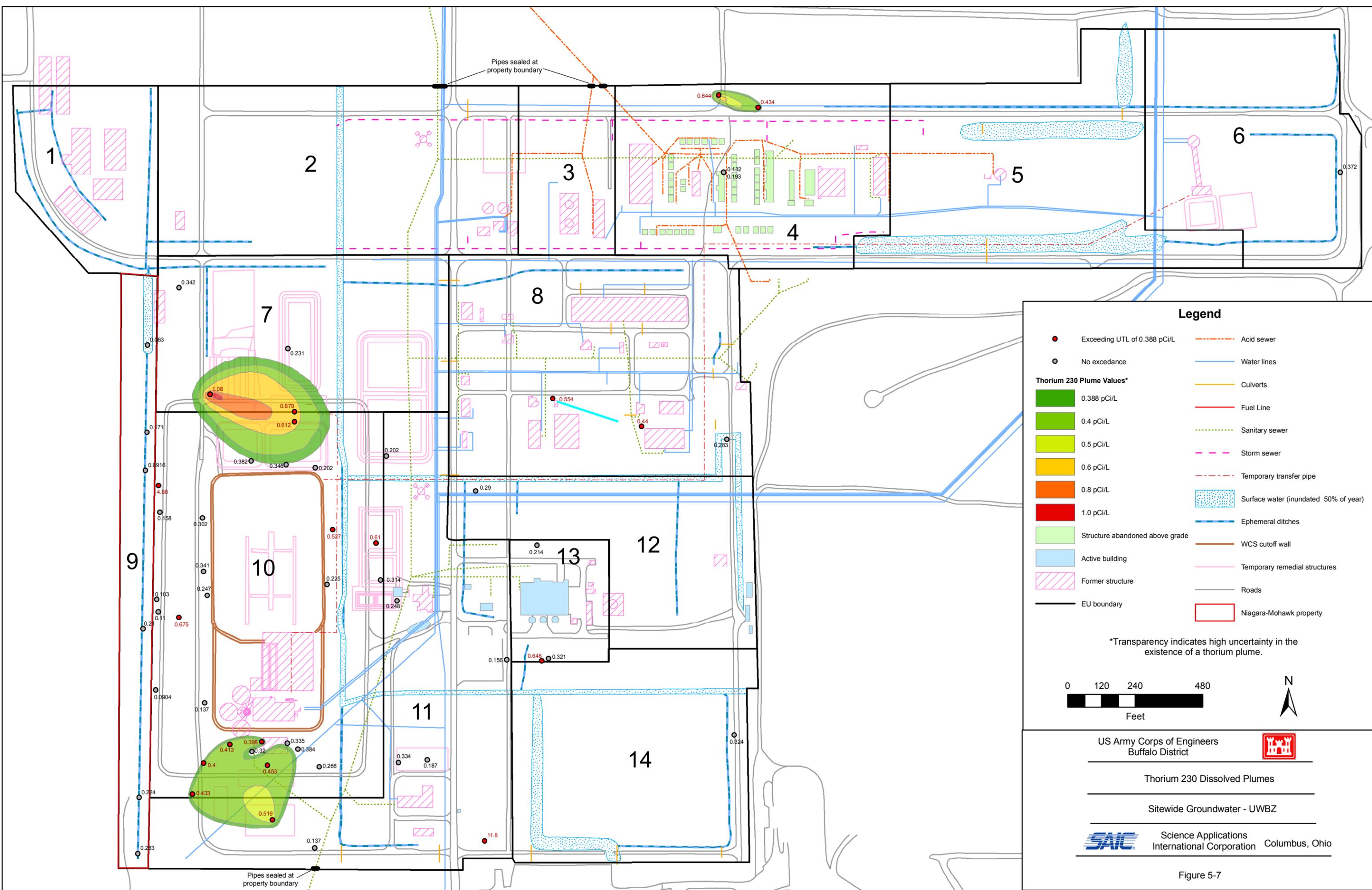
PROJECT NO. 15892	FIGURE NO. 5-5
SCALE: AS SHOWN	DATE: 11-14-2006
DRAWN BY: DWC	CHECKED BY: NMD

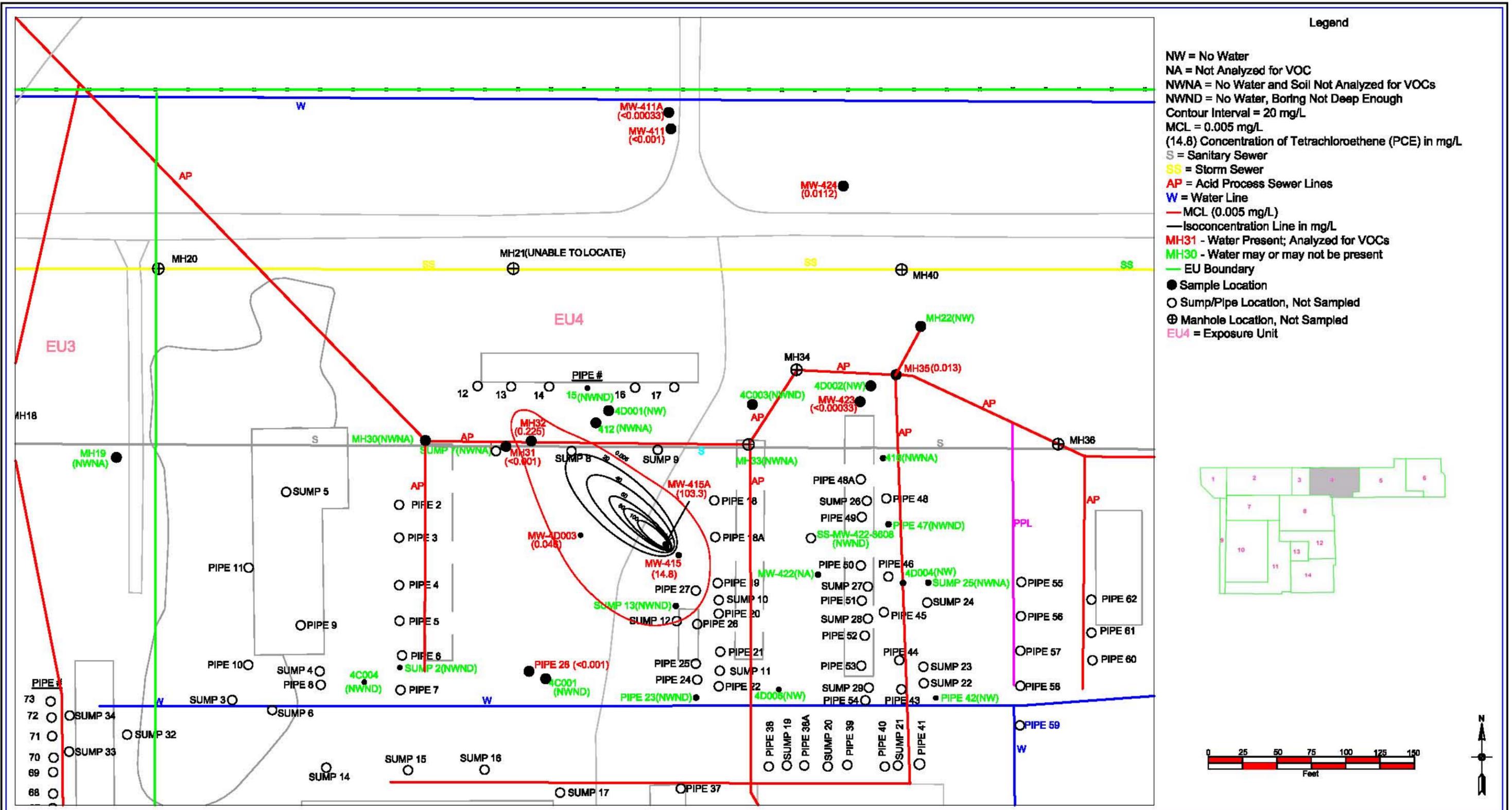


Distribution of Dissolved Boron in the Groundwater in EU4



PROJECT NO.	15892	FIGURE NO.	5-6
SCALE:	AS SHOWN	DATE:	11-14-2006
DRAWN BY:	DWC	CHECKED BY:	NMD

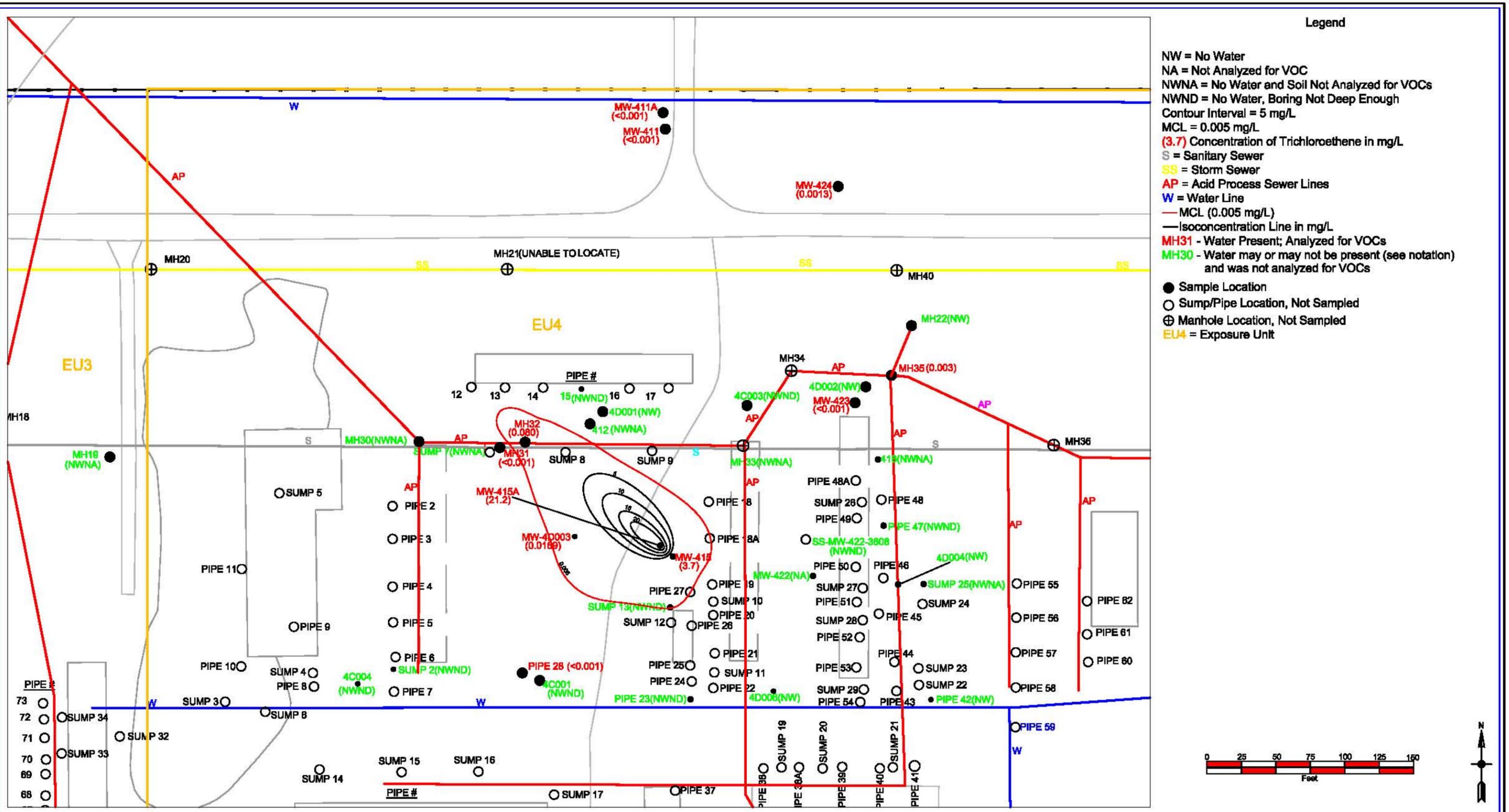




Distribution of Tetrachloroethene (PCE) in the Groundwater in EU4

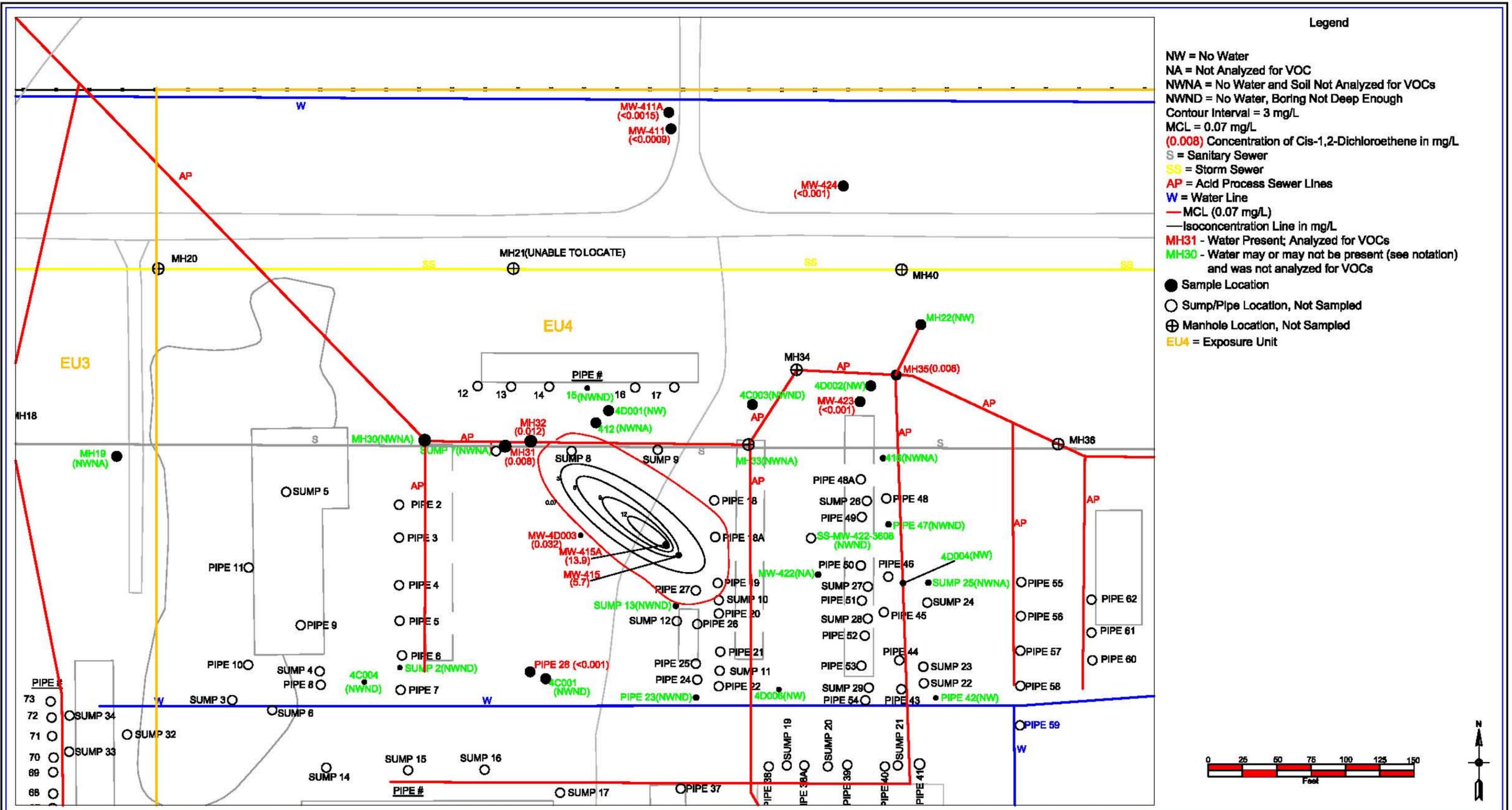


PROJECT NO.	15892	FIGURE NO.	5-8
SCALE:	AS SHOWN	DATE:	11-14-2006
DRAWN BY:	DWC	CHECKED BY:	NMD



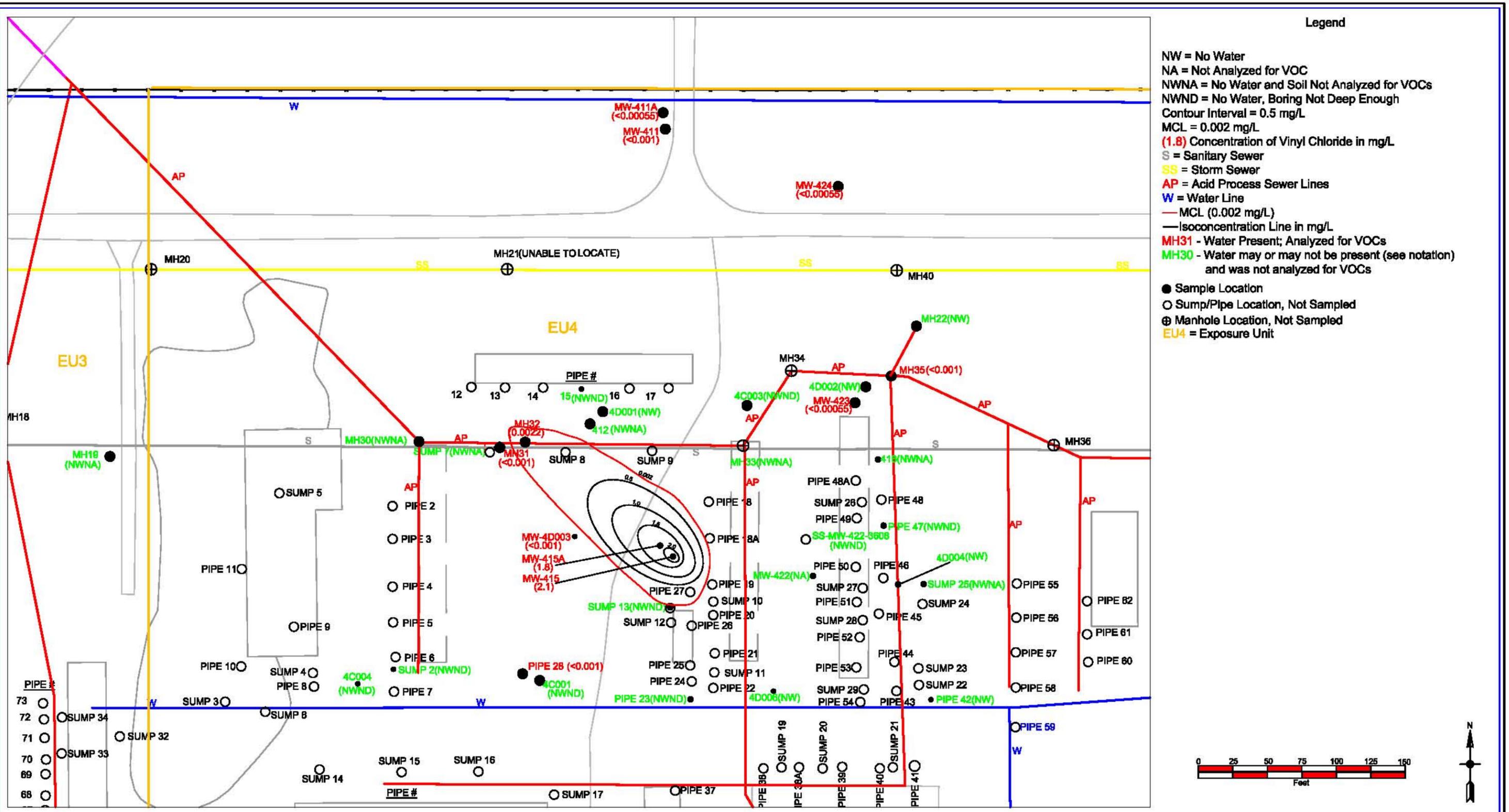
Distribution of Trichloroethene in the Groundwater in EU4

PROJECT NO. 15892	FIGURE NO. 5-9
SCALE: AS SHOWN	DATE: 11-14-2006
DRAWN BY: DWC	CHECKED BY: NMD

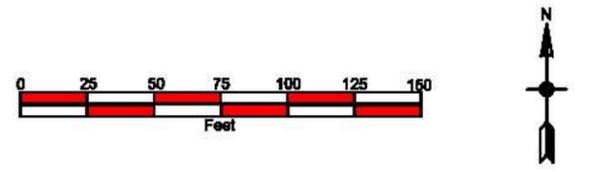


Distribution of Cis-1,2-Dichloroethene in the Groundwater in EU4

PROJECT NO. 15892	FIGURE NO. 5-10
SCALE: AS SHOWN	DATE: 11-14-2006
DRAWN BY: DWC	CHECKED BY: NMD

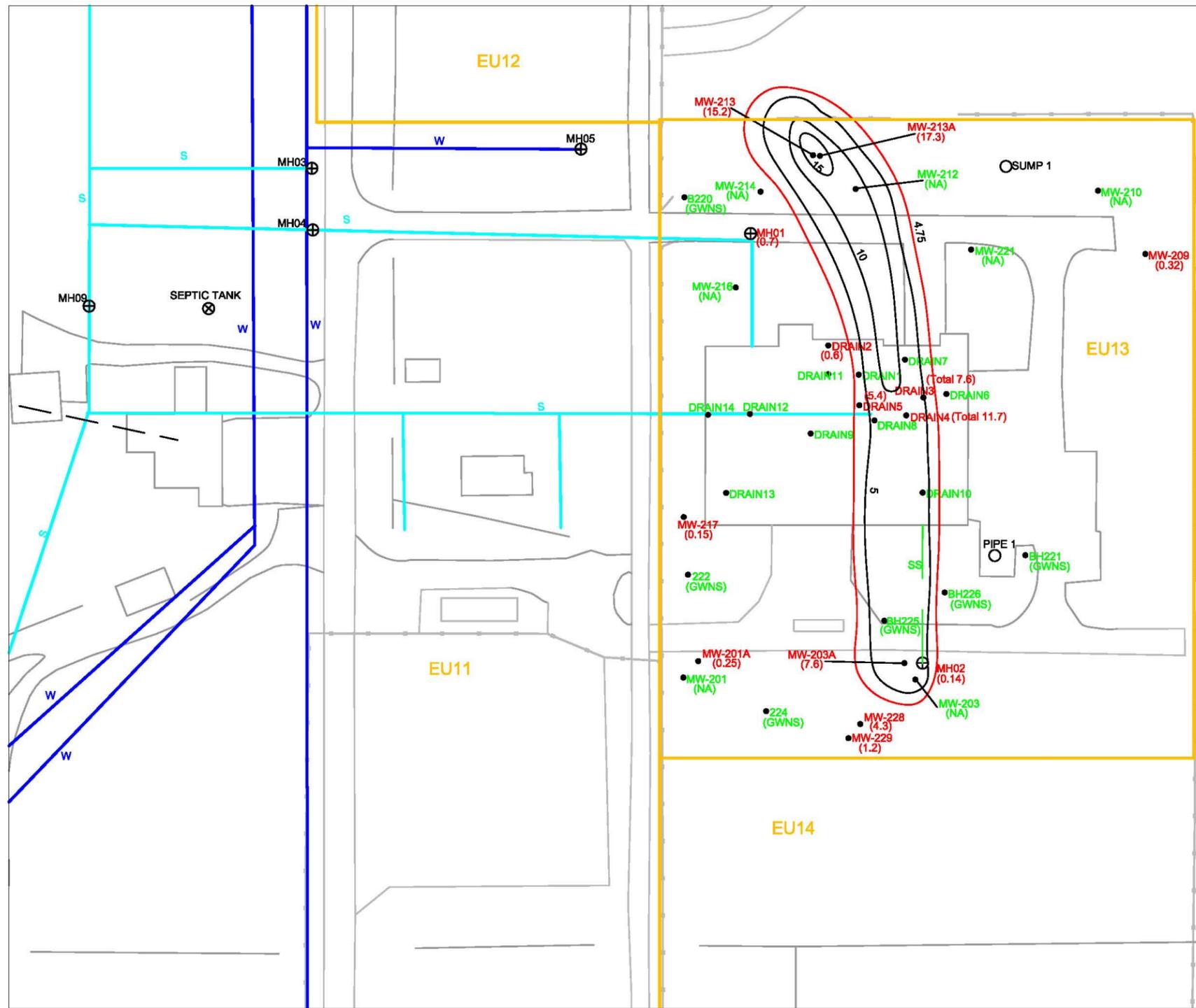


- Legend**
- NW = No Water
 - NA = Not Analyzed for VOC
 - NWNA = No Water and Soil Not Analyzed for VOCs
 - NWND = No Water, Boring Not Deep Enough
 - Contour Interval = 0.5 mg/L
 - MCL = 0.002 mg/L
 - (1.8) Concentration of Vinyl Chloride in mg/L
 - S = Sanitary Sewer
 - SS = Storm Sewer
 - AP = Acid Process Sewer Lines
 - W = Water Line
 - MCL (0.002 mg/L)
 - Isoconcentration Line in mg/L
 - MH31 - Water Present; Analyzed for VOCs
 - MH30 - Water may or may not be present (see notation) and was not analyzed for VOCs
 - Sample Location
 - Sump/Pipe Location, Not Sampled
 - ⊕ Manhole Location, Not Sampled
 - EU4 = Exposure Unit



Distribution of Vinyl Chloride in the Groundwater in EU4

PROJECT NO. 15892	FIGURE NO. 5-12
SCALE: AS SHOWN	DATE: 11-14-2006
DRAWN BY: DWC	CHECKED BY: NMD



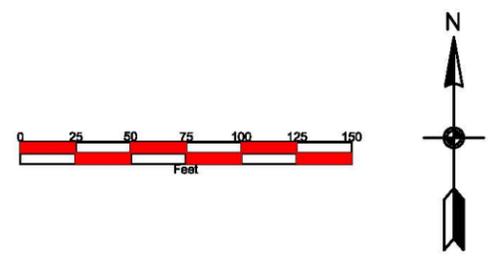
Legend

NA = Not Analyzed for Dissolved Boron
 GWNS = Groundwater Present But Not Sampled
 Contour Interval = 5 mg/L
 UTL = 4.75 mg/L
 (7.6) Concentration for Dissolved Boron in mg/L
 — UTL (4.75 mg/L)
 — Isoconcentration Line in mg/L
 S = Sanitary Sewer
 SS = Storm Sewer
 W = Water Line
 MH01 - Water Present, Analyzed for Dissolved Metals
 224 - Water may or may not be present (see notation) and water not analyzed for dissolved metals

● Sample Location
 ○ Sump/Pipe Location, Not Analyzed
 ⊕ Manhole Location

Note: At Drain03 and Drain04, samples were not analyzed for the dissolved fraction. Total concentrations were posted for comparison purposes only.

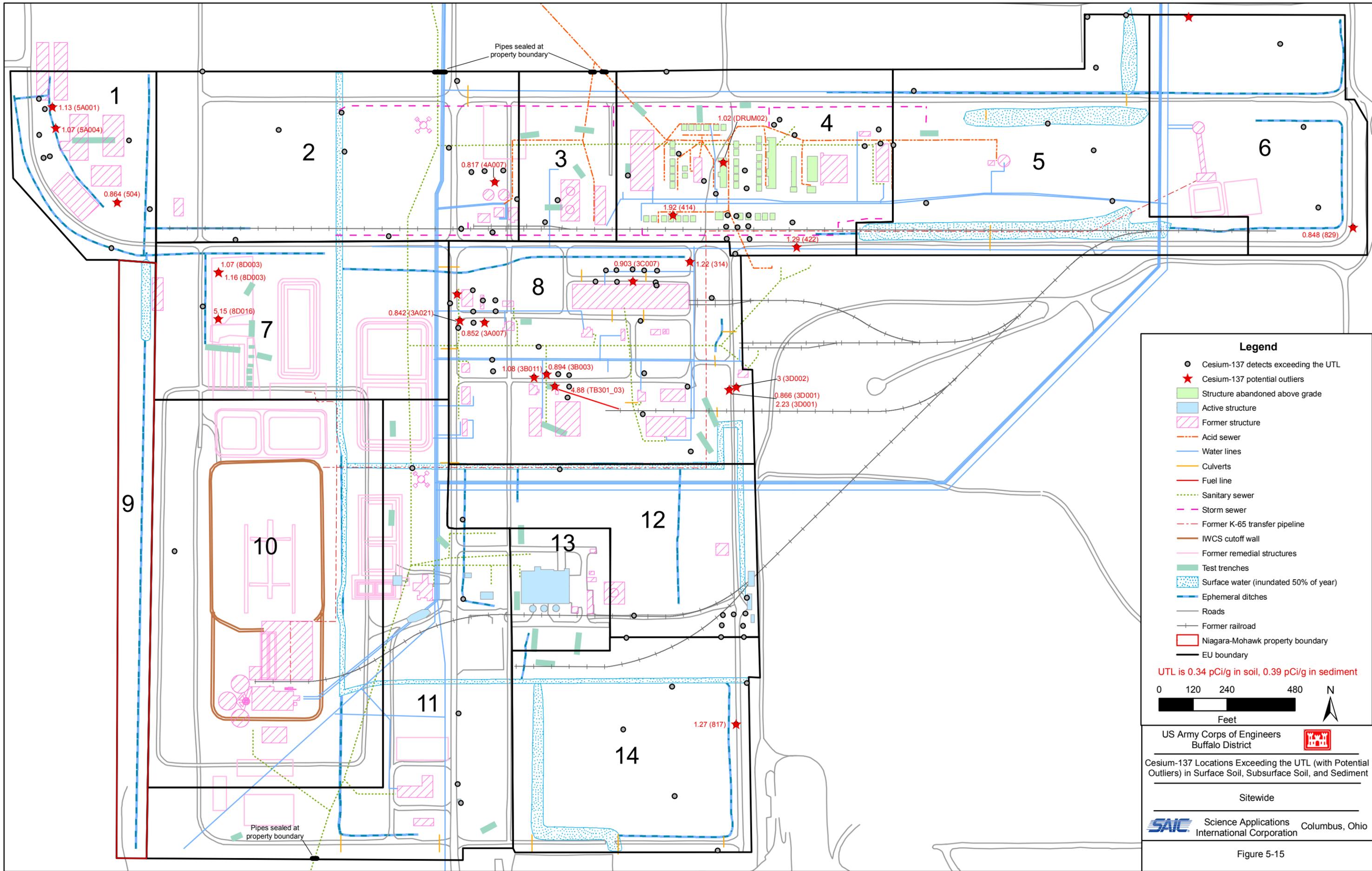
EU13 = Exposure Unit



Distribution of Dissolved Boron in EU13

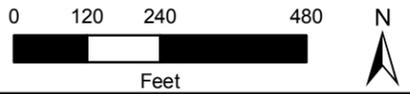


PROJECT NO.	15892	FIGURE NO.	5-14
SCALE:	AS SHOWN	DATE:	11-14-2006
DRAWN BY:	DWC	CHECKED BY:	NMD



- Legend**
- Cesium-137 detects exceeding the UTL
 - ★ Cesium-137 potential outliers
 - Structure abandoned above grade
 - Active structure
 - Former structure
 - Acid sewer
 - Water lines
 - Culverts
 - Fuel line
 - Sanitary sewer
 - Storm sewer
 - Former K-65 transfer pipeline
 - IWCS cutoff wall
 - Former remedial structures
 - Test trenches
 - Surface water (inundated 50% of year)
 - Ephemeral ditches
 - Roads
 - Former railroad
 - Niagara-Mohawk property boundary
 - EU boundary

UTL is 0.34 pCi/g in soil, 0.39 pCi/g in sediment



US Army Corps of Engineers
Buffalo District

Cesium-137 Locations Exceeding the UTL (with Potential Outliers) in Surface Soil, Subsurface Soil, and Sediment

Sitewide

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Figure 5-15

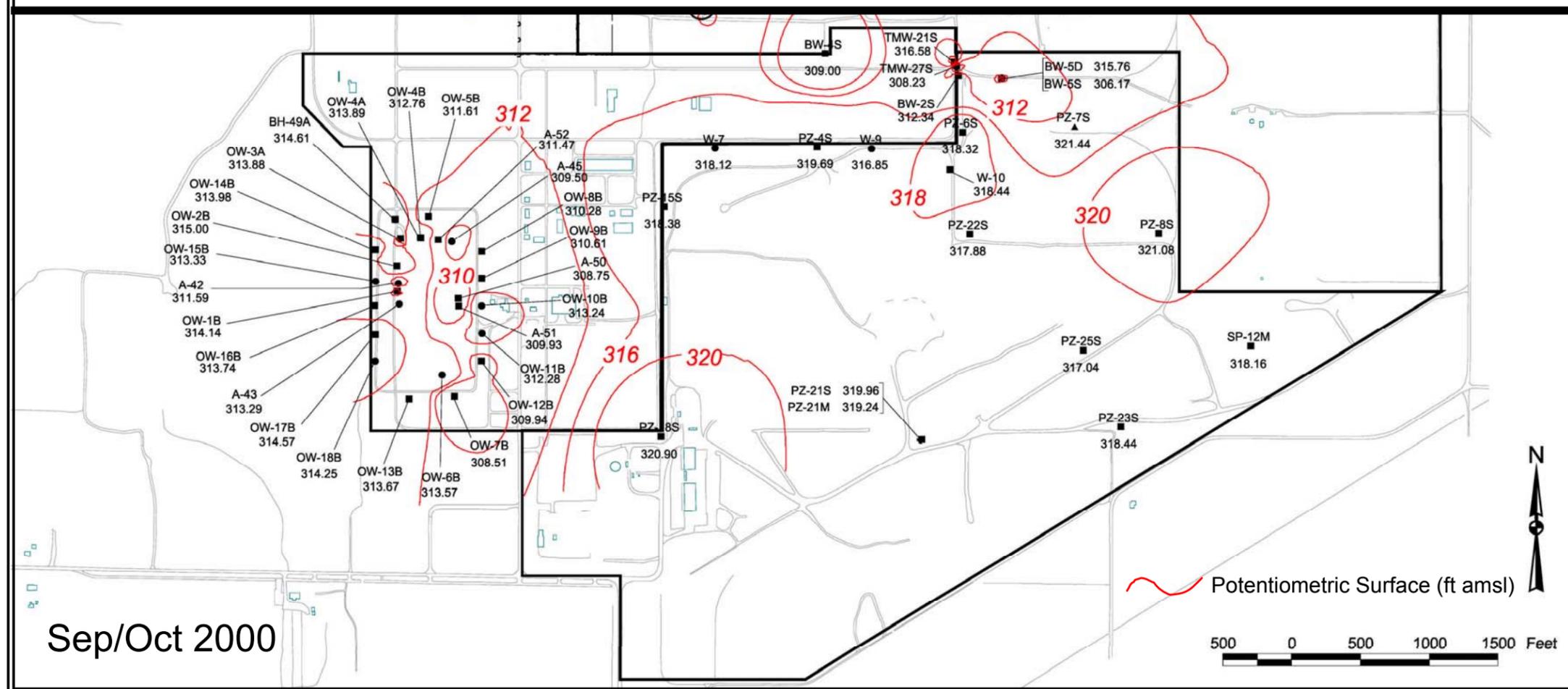
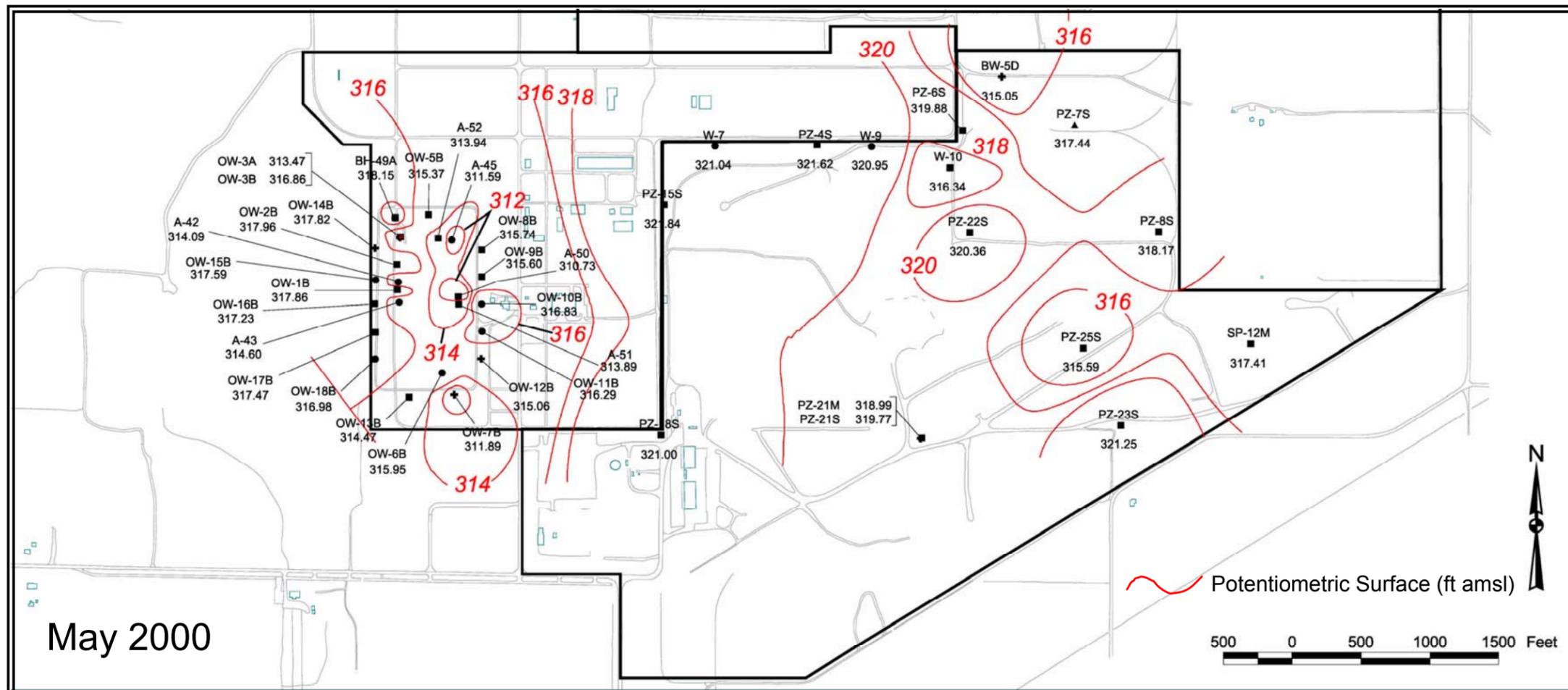


Figure 5-16 Generalized Potentiometric Surface of the Upper Water Bearing Zone