

US EPA ARCHIVE DOCUMENT

Plot Date: 09/27/2012
Drawing File Name: J:\TRC\Tecumseh Products\Tecumseh MI\192013\000001.dwg
Operator Name: STALEE, DANAH
Drawing Plot Scale: 1:1200

Drawn By: DGS
Checked By: SEM
Approved By: GC
Date: SEPTEMBER 2012

Plot Date: September 26, 2012
Plot Time: 2:59 PM
Layout: FIG01 Site Location Plan & Vicinity

Attached Xrefs:
Attached Images:
Tecumseh: Tecumseh North Michigan; Tecumseh South Michigan; TECUMSEH NORTH, SE;
FIG01 Site Location Plan & Vicinity

CITY OF TECUMSEH
MUNICIPAL WELL FIELD
(SOUTH)

FORMER
TECUMSEH PRODUCTS
COMPANY SITE

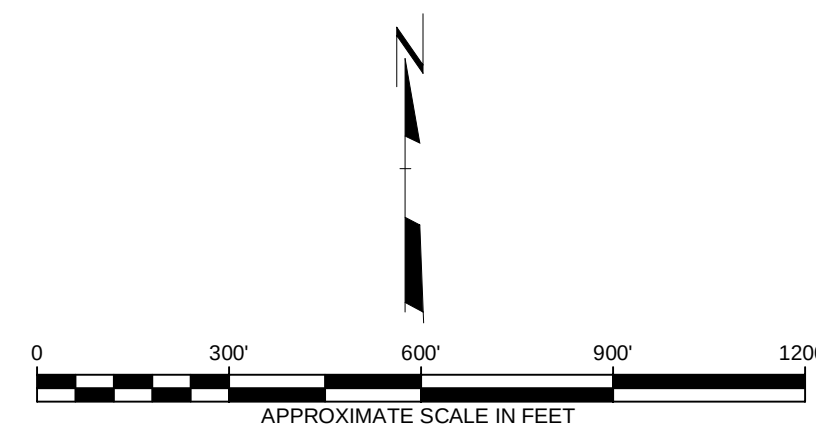
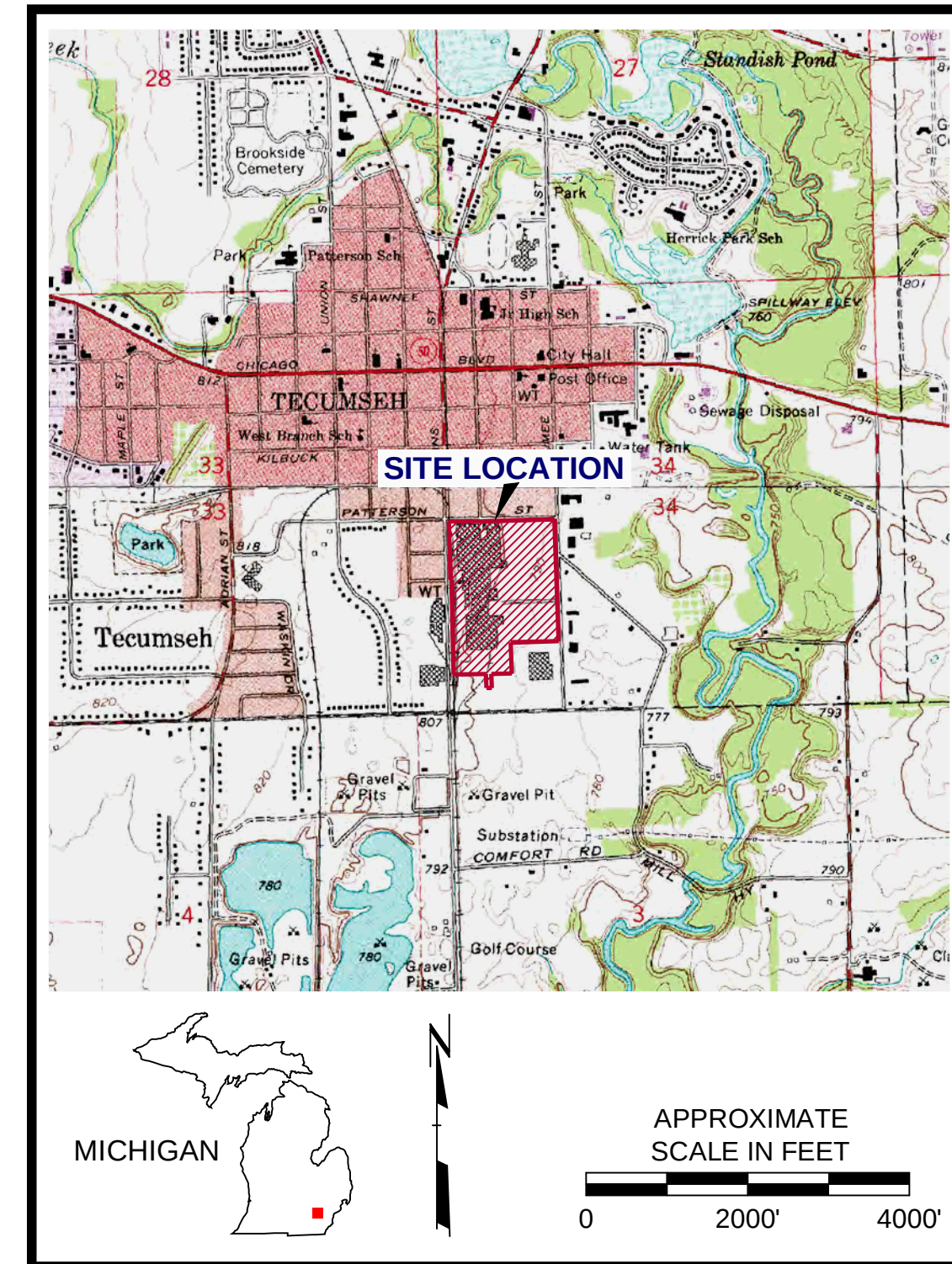
LEGEND

- CITY OF TECUMSEH PROPERTY BOUNDARIES
- FORMER TECUMSEH PRODUCTS SITE BOUNDARY
- PARCEL BOUNDARIES
- GROUNDWATER FLOW DIRECTION

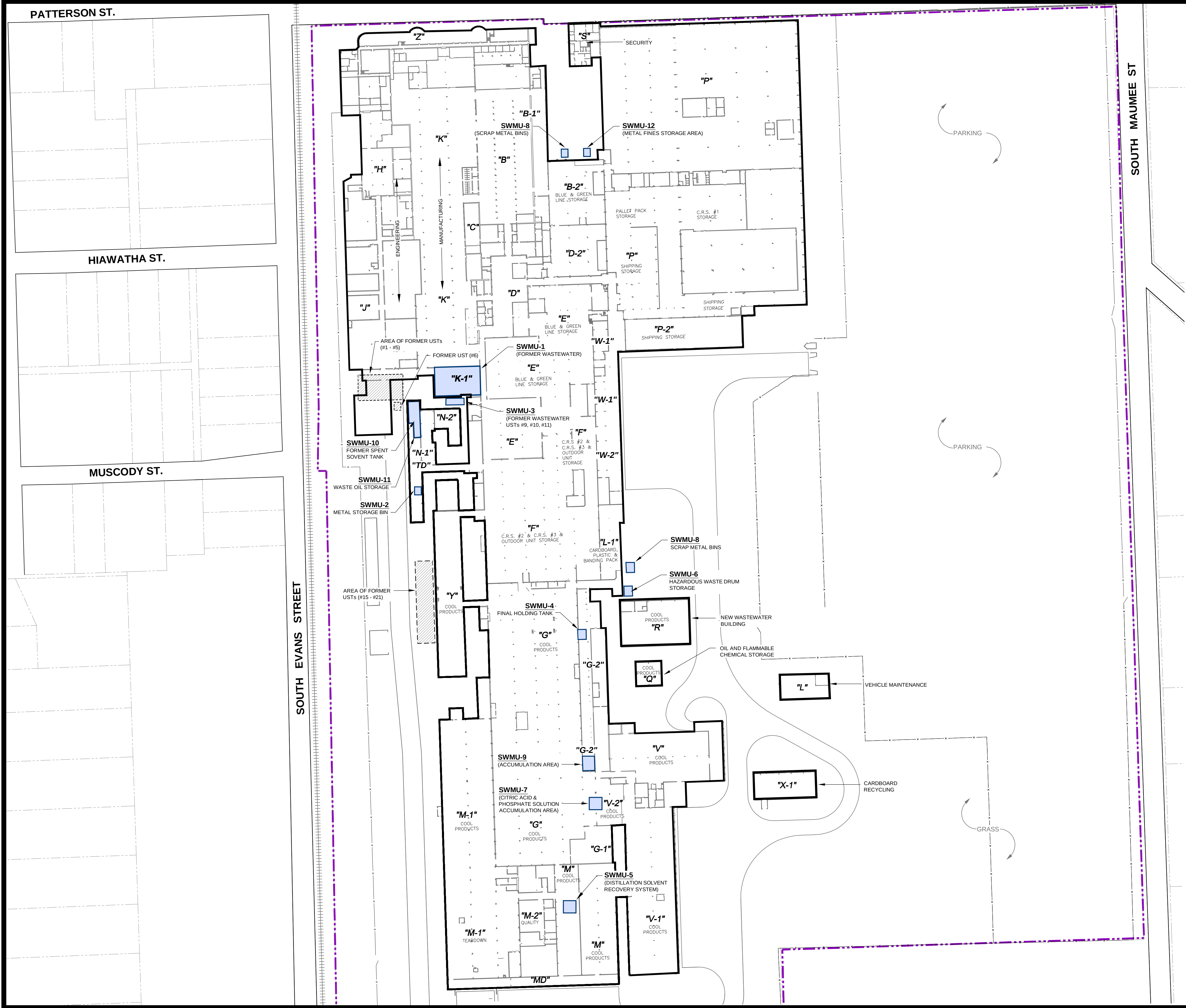
NOTE

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009, AERIAL PHOTOGRAPH PROVIDED FROM REMOTE SENSING & GIS RESEARCH AND OUTREACH SERVICES (RS&GIS), PUBLICATION_DATE: 06-29-2007, File:TECUMSEHSOUTH_NE.ECW.

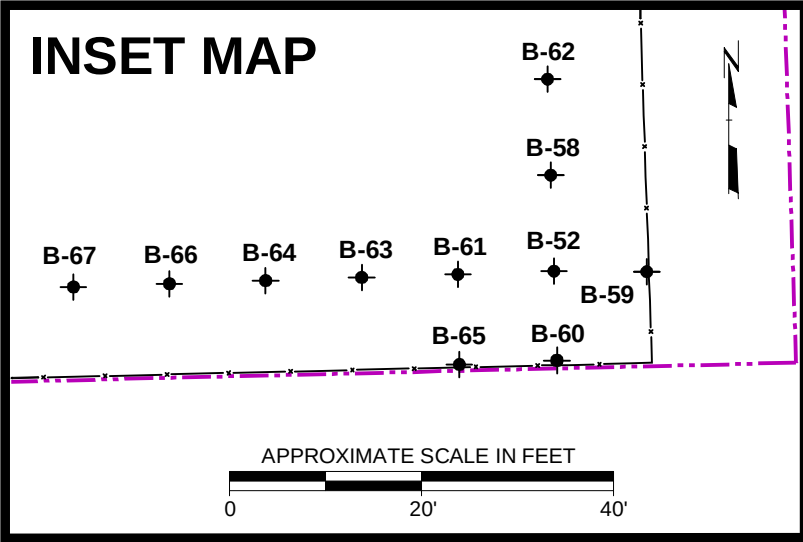
SITE TOPOGRAPHY INSET MAP

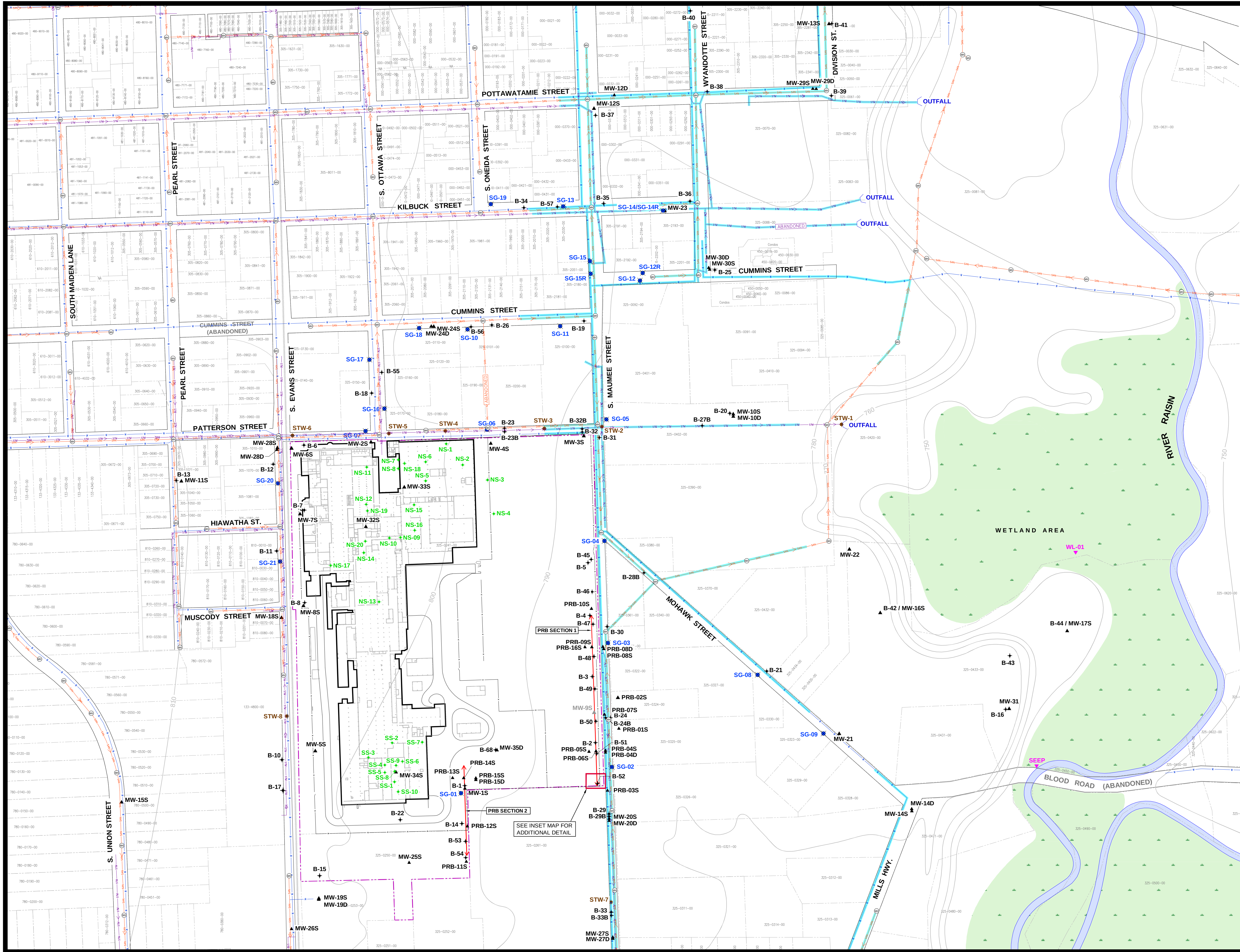


3					
2					
1					
NO.	BY	DATE	REVISION	APP'D	
PROJ: FORMER TECUMSEH PRODUCTS SITE TECUMSEH, MICHIGAN					
TITLE: SITE LOCATION AND VICINITY					
DRAWN BY: DGS		SCALE:		PROJ. NO. 192013.0000.01	
CHECKED BY: SEM				FILE NO. 192013.0000.01.01.dwg	
APPROVED BY: GC		DATE PRINTED:		FIGURE 1	
DATE: SEPTEMBER 2012					
			1540 Eisenhower Place Ann Arbor, MI 48108 Phone: 734.971.7080 Fax: 734.971.9022		



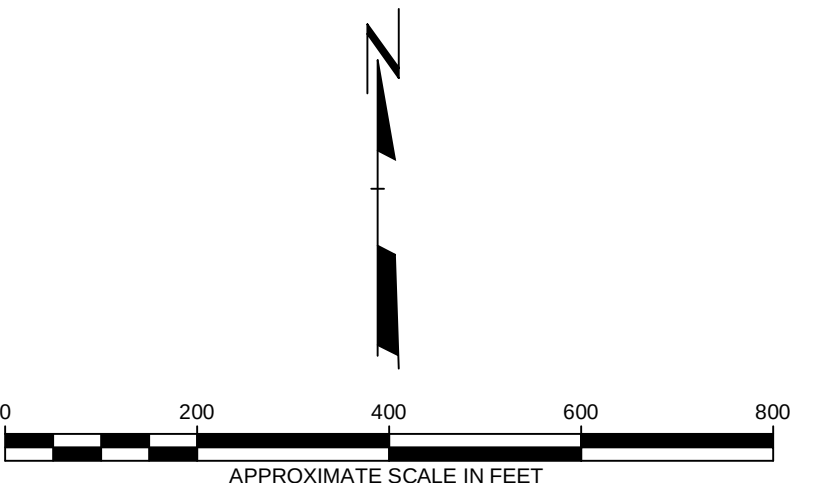
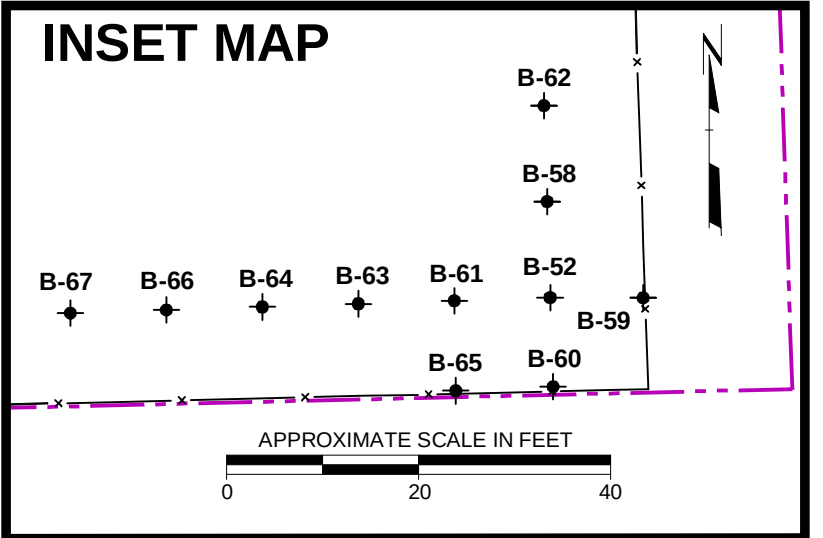
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NO.	BY	DATE	REVISION	APP'D	
PROJ: FORMER TECUMSEH PRODUCTS SITE TECUMSEH, MICHIGAN					
TITLE: SITE FEATURES					
DRAWN BY:	DGS	SCALE:	AS INDICATED	PROJ. NO:	192013.0000.01
CHECKED BY:	SEM	DATE PRINTED:		FILE NO:	192013.0000.01.02.dwg
APPROVED BY:	GC				
DATE:	SEPTEMBER 2012				
				FIGURE 2	
TRC				1540 Eisenhower Place Ann Arbor, MI 48108 Phone: 734.971.7080 Fax: 734.971.9022	





- LEGEND**
- FORMER TECUMSEH PRODUCTS SITE BOUNDARY
 - PARCEL BOUNDARY
 - RAILROAD TRACKS (APPROXIMATE LOCATION)
 - APPROXIMATE GROUND TOPOGRAPHY BASED OFF 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP
 - B-2 + PERIMETER / OFF-SITE INVESTIGATION SOIL BORING LOCATION AND NUMBER
 - MW-4S ▲ MONITORING WELL LOCATION AND NUMBER
 - MW-9S ▲ DECOMMISSIONED MONITORING WELL LOCATION AND NUMBER
 - SS-2 + SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
 - SG-02 ■ SOIL GAS SAMPLE LOCATION AND NUMBER
 - STW-2 ■ STORM WATER SEWER SAMPLE LOCATION AND NUMBER
 - WL-01 ◆ APPROXIMATE SURFACE WATER SAMPLE LOCATION
 - FLOODPLAIN / WOODED WETLAND AREA
 - PRB LOCATION
 - FENCE LINE
 - WATER LINE (SEE NOTE 3)
 - SANITARY SEWER (SEE NOTE 3)
 - STORM SEWER (NOTE 3)
 - MANHOLE

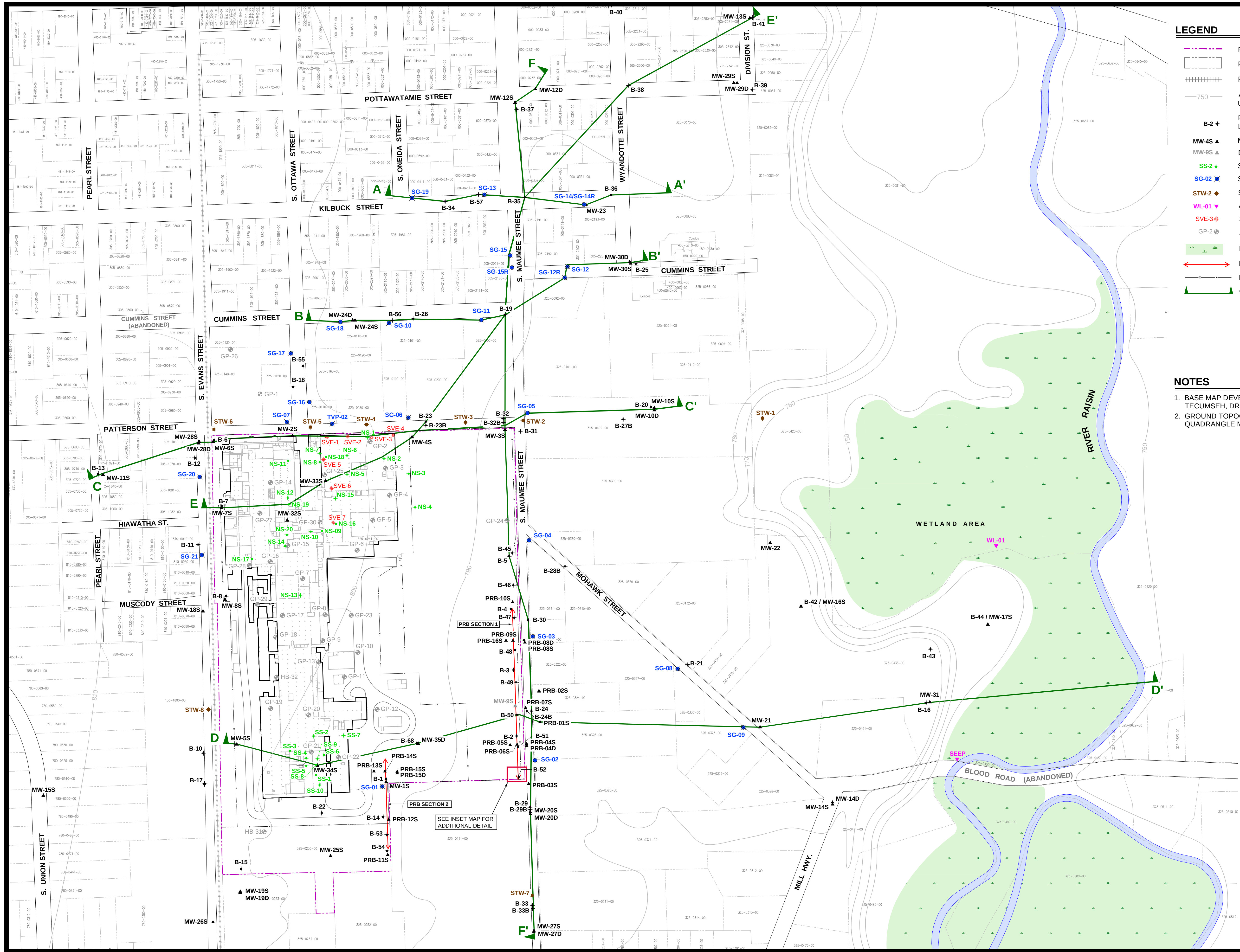
- NOTES**
1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009.
 2. GROUND TOPOGRAPHY BASED OFF 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP AND GROUND SURVEY DATA.
 3. BLUE HIGHLIGHTING INDICATES APPROXIMATE LOCATIONS WHERE UTILITY CORRIDOR IS SATURATED.



3					
2					
1					
NO.	BY	DATE	REVISION	APP'D	
PROJECT: FORMER TECUMSEH PRODUCTS SITE TECUMSEH, MICHIGAN					
TITLE: MAJOR UTILITY LOCATIONS					
DRAWN BY:	SJL/GDS	SCALE:	AS INDICATED	PROJ. NO.	192013.0000.01
CHECKED BY:	SM	DATE PRINTED:		FILE NO.	192013.0000.01.04.dwg
APPROVED BY:	GC				
DATE:	SEPTEMBER 2012				
FIGURE 4					



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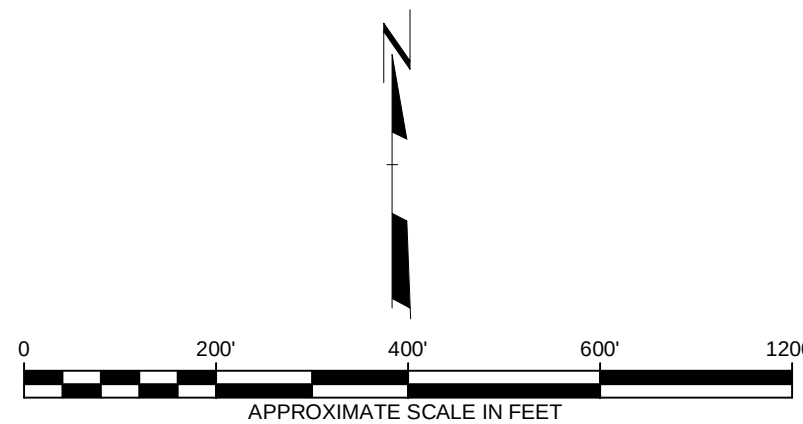
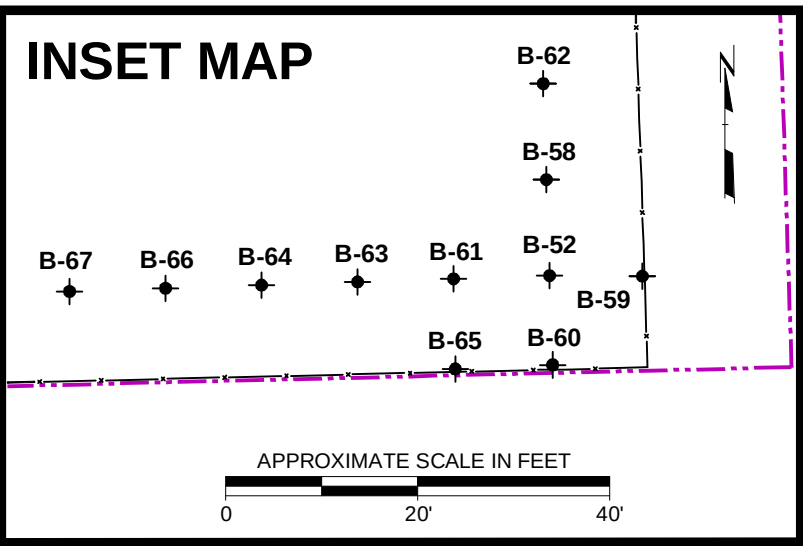


LEGEND

- | | |
|--|--|
| | FORMER TECUMSEH PRODUCTS SITE BOUNDARY |
| | PARCEL BOUNDARY |
| | RAILROAD TRACKS (APPROXIMATE LOCATION) |
| | APPROXIMATE GROUND TOPOGRAPHY BASED OFF 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP |
| | PERIMETER / OFF-SITE INVESTIGATION SOIL BORING LOCATION AND NUMBER |
| | MONITORING WELL LOCATION AND NUMBER |
| | DECOMMISSIONED MONITORING WELL LOCATION AND NUMBER |
| | SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER |
| | SOIL GAS SAMPLE LOCATION AND NUMBER |
| | STORM WATER SEWER SAMPLE LOCATION AND NUMBER |
| | APPROXIMATE SURFACE WATER SAMPLE LOCATION |
| | SOIL VAPOR EXTRACTION WELL NUMBER AND LOCATION |
| | ATC PHASE II ESA BORING LOCATION AND NUMBER |
| | FLOODPLAIN / WOODED WETLAND AREA |
| | PRB LOCATION |
| | FENCE LINE |
| | CROSS-SECTION LOCATION |

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009.
2. GROUND TOPOGRAPHY BASED OFF 7.5 MINUTE U.S.G.S TOPOGRAPHIC QUADRANGLE MAP AND GROUND SURVEY DATA.



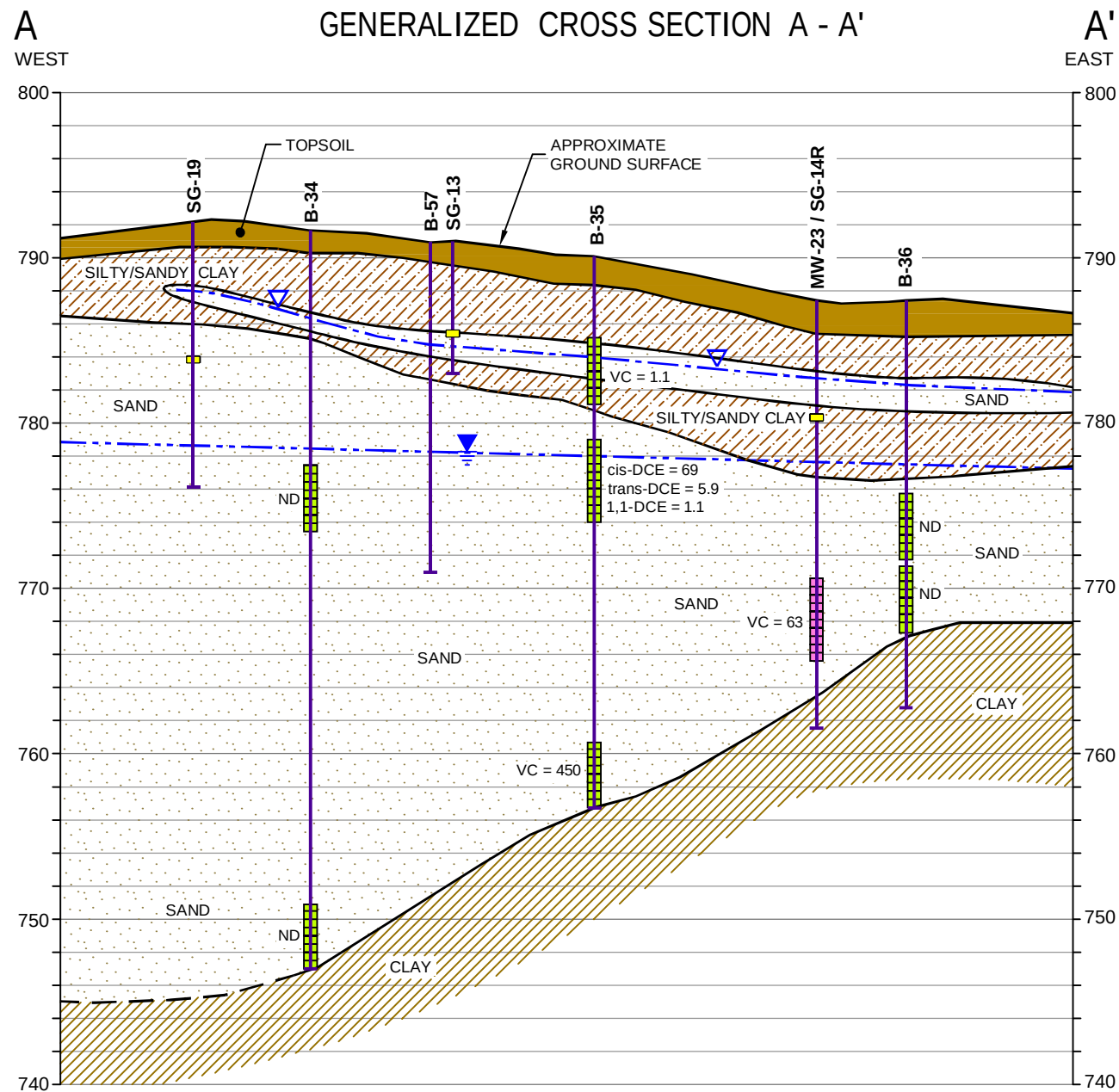
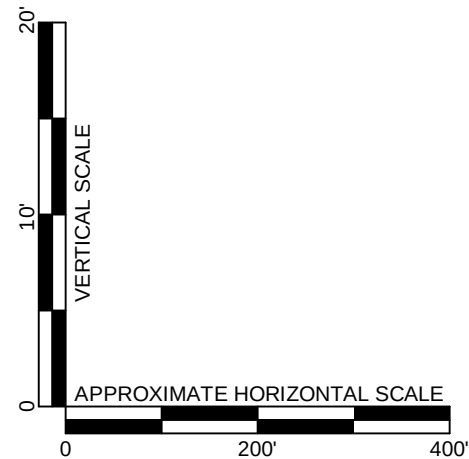
3					
2					
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NO.	BY	DATE	REVISION		APP'D
PROJ. FORMER TECUMSEH PRODUCTS SITE TECUMSEH, MICHIGAN					
TITLE: CROSS SECTION LOCATION MAP					
DRAWN BY: DGS		SCALE: AS INDICATED		PROJ. NO. 192013.0000.01	
CHECKED BY: SEM				FILE NO. 192013.0000.01.05.dwg	
APPROVED BY: GC		DATE PRINTED:		FIGURE 5	
DATE: SEPTEMBER 2012					



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PLOT DATA

Drawing Name: J:_TRC\Tecomseh Products\Tecomseh MI192013\000001\RI Rpt192013.000001.06-11.dwg
Operator Name: STEHLE, DIANA H
Drawing Plot Scale: 1'-0" = 1'-0"
Dwg Size: 1.10 Mb
Plot Date: September 27, 2012
Plot Time: 12:41 PM
Attached Xrefs:
Attached Images:
Layout: FIG 06 XS A-A



LEGEND

	TOPSOIL		SANDY / SILTY CLAY
	SAND		CONCRETE
	CLAY		FILL
	SILT		GRAVEL

	STRATIGRAPHIC BOUNDARY BASED ON NEAREST SOIL BORING OR MONITORING WELL (DASHED WHERE INFERRED)
	APPROXIMATE GROUNDWATER ELEVATION
	PERCHED GROUNDWATER ELEVATION
	PIEZOMETRIC WATER LEVEL INDICATOR
	TEMPORARY WELL SCREEN
	WELL SCREEN
	SOIL GAS SAMPLE POINT SCREEN

PCE	= TETRACHLOROETHENE
TCE	= TRICHLOROETHENE
TCA	= 1,1,1-TRICHLOROETHANE
1,1-DCE	= 1,1-DICHLOROETHENE
1,1-DCA	= 1,1-DICHLOROETHANE
cis-DCE	= 1,2-cis-DICHLOROETHENE
trans-DCE	= 1,2-trans-DICHLOROETHENE
VC	= VINYL CHLORIDE
ND	= NOT DETECTED

NOTES

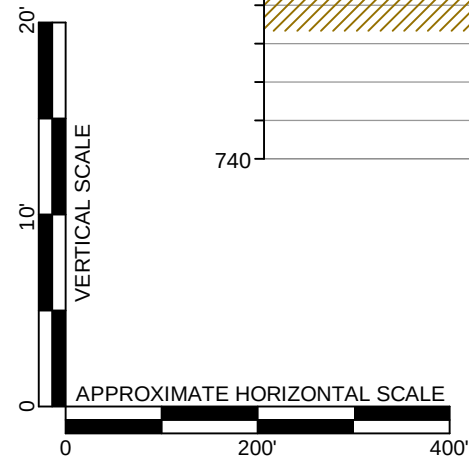
- GROUND SURFACE AND STRATIGRAPHIC CONTACTS ARE APPROXIMATE AND EXTRAPOLATED FROM NEAREST SOIL BORING DATA.
- SEE FIGURE 5 FOR LOCATION / ORIENTATION OF THIS GEOLOGIC CROSS SECTION.
- GROUNDWATER ANALYTICAL DATA REFLECTS MOST RECENT SAMPLE EVENT AS OF AUGUST 2012.
- DETECTED GROUNDWATER CONCENTRATIONS FOR CONSTITUENTS OF HIGHEST CONCERN ARE PROVIDED IN MICROGRAMS PER LITER.

PROJECT:	FORMER TECUMSEH PRODUCTS SITE TECUMSEH, MICHIGAN		
TITLE:	CROSS SECTION A - A'		
DRAWN BY:	DGS	SCALE:	PROJ. NO. 192013.0000.01
CHECKED BY:	SEM	AS INDICATED	FILE NO. 192013.0000.01.06-11.dwg
APPROVED BY:	GC	DATE PRINTED:	FIGURE 6
DATE:	SEPTEMBER 2012		
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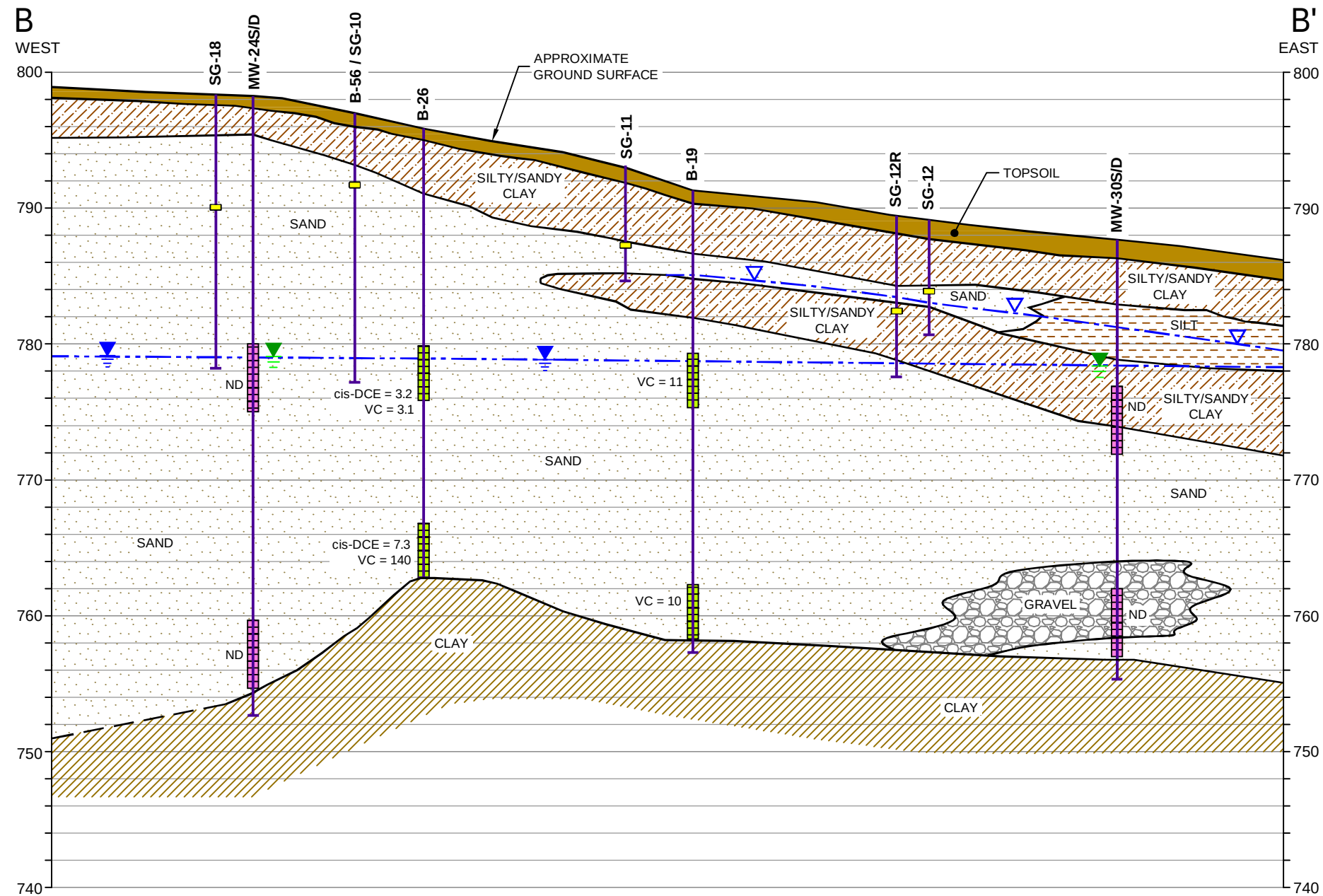
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Operator Name: STEHLE, DIANA H
Drawing Plot Scale: 0.386863

Dwg Size: 1.82 Mb
Plot Date: September 26, 2012
Plot Time: 1:25 PM
Attached Xrefs:
Attached Images:
Layout: FIG07 XS B-B



GENERALIZED CROSS SECTION B - B'



LEGEND

	TOPSOIL		SANDY / SILTY CLAY
	SAND		CONCRETE
	CLAY		FILL
	SILT		GRAVEL

	STRATIGRAPHIC BOUNDARY BASED ON NEAREST SOIL BORING OR MONITORING WELL (DASHED WHERE INFERRED)
	APPROXIMATE GROUNDWATER ELEVATION
	PERCHED GROUNDWATER ELEVATION
	PIEZOMETRIC WATER LEVEL INDICATOR
	TEMPORARY WELL SCREEN
	WELL SCREEN
	SOIL GAS SAMPLE POINT SCREEN

PCE	= TETRACHLOROETHENE
TCE	= TRICHLOROETHENE
TCA	= 1,1,1-TRICHLOROETHANE
1,1-DCE	= 1,1-DICHLOROETHENE
1,1-DCA	= 1,1-DICHLOROETHANE
cis-DCE	= 1,2-cis-DICHLOROETHENE
trans-DCE	= 1,2-trans-DICHLOROETHENE
VC	= VINYL CHLORIDE
ND	= NOT DETECTED

NOTES

- GROUND SURFACE AND STRATIGRAPHIC CONTACTS ARE APPROXIMATE AND EXTRAPOLATED FROM NEAREST SOIL BORING DATA.
- SEE FIGURE 5 FOR LOCATION / ORIENTATION OF THIS GEOLOGIC CROSS SECTION.
- GROUNDWATER ANALYTICAL DATA REFLECTS MOST RECENT SAMPLE EVENT AS OF AUGUST 2012.
- DETECTED GROUNDWATER CONCENTRATIONS FOR CONSTITUENTS OF HIGHEST CONCERN ARE PROVIDED IN MICROGRAMS PER LITER.

PROJECT:	FORMER TECUMSEH PRODUCTS SITE TECUMSEH, MICHIGAN		
TITLE:	CROSS SECTION B - B'		
DRAWN BY:	DGS	SCALE:	PROJ. NO. 192013.0000.01
CHECKED BY:	SEM	AS INDICATED	FILE NO. 192013.0000.01.06-11.dwg
APPROVED BY:	GC	DATE PRINTED:	FIGURE 7
DATE:	SEPTEMBER 2012		



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WEST **C** **EAST**

820
810
800
790
780
770
760
750
740

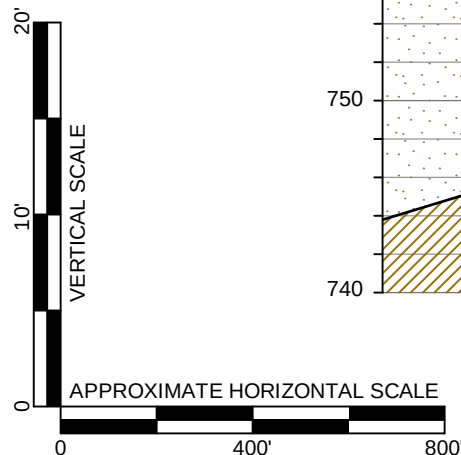
TOPSOIL
SANDY/SILTY CLAY
ASPHALT
GRAVEL
FILL
SAND
CLAY
SEE NOTE 5

FORMER TECUMSEH PRODUCTS MANUFACTURING BUILDING
CONCRETE FOUNDATION
ROAD FILL
APPROXIMATE GROUND SURFACE
TOPSOIL

RIVER RAISIN →

MW-11S / B-13
MW-28S/D
MW-6S / B-6
MW-2S / SG-07
TVP-02S
NS-1
MW-4S / B-23 / SG-06
MW-3S / B-32
SG-05
MW-10S/D

ND
ND
TCE = 32
PCE = 2.5
TCE = 330
cis-DCE = 2.2
TCA = 3.5
ND
TCE = 830
cis-DCE = 260
TCE = 5,600
cis-DCE = 2,100
trans-DCE = 65
VC = 200
ND
TCE = 1,700
cis-DCE = 5,500
TCE = 25
cis-DCE = 2,500
trans-DCE = 120
VC = 210
1,1-DCA = 23
ND
cis-DCE = 1,200
VC = 360
ND



	TOPSOIL		SANDY / SILTY CLAY
	SAND		CONCRETE
	CLAY		FILL
	SILT		GRAVEL

	STRATIGRAPHIC BOUNDARY BASED ON NEAREST SOIL BORING OR MONITORING WELL (DASHED WHERE INFERRED)
	APPROXIMATE GROUNDWATER ELEVATION
	PERCHED GROUNDWATER ELEVATION
	PIEZOMETRIC WATER LEVEL INDICATOR
	TEMPORARY WELL SCREEN
	WELL SCREEN
	SOIL GAS SAMPLE POINT SCREEN

PCE	=	TETRACHLOROETHENE
TCE	=	TRICHLOROETHENE
TCA	=	1,1,1-TRICHLOROETHANE
1,1-DCE	=	1,1-DICHLOROETHENE
1,1-DCA	=	1,1-DICHLOROETHANE
cis-DCE	=	1,2-cis-DICHLOROETHENE
trans-DCE	=	1,2-trans-DICHLOROETHENE
VC	=	VINYL CHLORIDE
ND	=	NOT DETECTED

1. GROUND SURFACE AND STRATIGRAPHIC CONTACTS ARE APPROXIMATE AND EXTRAPOLATED FROM NEAREST SOIL BORING DATA.
2. SEE FIGURE 5 FOR LOCATION / ORIENTATION OF THIS GEOLOGIC CROSS SECTION.
3. GROUNDWATER ANALYTICAL DATA REFLECTS MOST RECENT SAMPLE EVENT AS OF AUGUST 2012.
4. DETECTED GROUNDWATER CONCENTRATIONS FOR CONSTITUENTS OF HIGHEST CONCERN ARE PROVIDED IN MICROGRAMS PER LITER.
5. THE ELEVATION OF THE TOP OF CLAY NEAR MW-11S IS ESTIMATED BASED ON WELL LOGS FROM THE CITY OF TECUMSEH WELL FIELD, WHICH IS LOCATED APPROXIMATELY 1,000 FEET WEST OF MW-11S. TOP OF CLAY AT THE CITY WELL FIELD IS AT APPROXIMATELY 740 FEET MSL.

PROJECT:			FORMER TECUMSEH PRODUCTS SITE TECUMSEH, MICHIGAN		
TITLE:					
CROSS SECTION C - C'					
DRAWN BY: SJL/DGS		SCALE:		PROJ. NO. 192013.0000.01	
CHECKED BY: SEM		AS INDICATED		FILE NO. 192013.0000.01.06-11.dwg	
APPROVED BY: GC		DATE PRINTED:		FIGURE 8	
DATE: SEPTEMBER 2012					

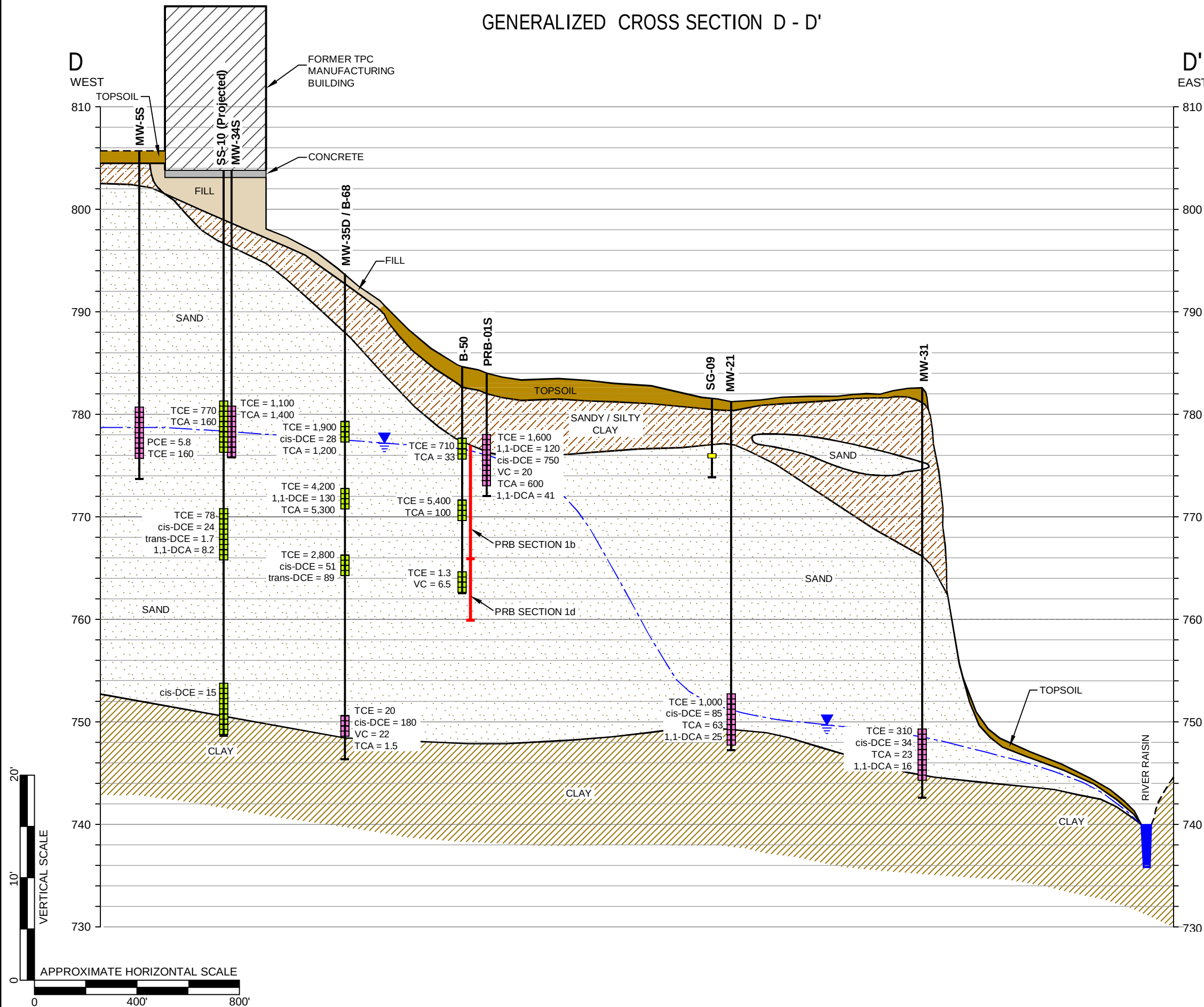


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PLOT DATA

Drawing Name: J:_TRC\Tecomseh Products\Tecomseh MI\192013\000001\191 Rpt\192013.000001.06-11A.dwg
Operator Name: STEHLE, DIANA H
Drawing Plot Scale: 0.386863
Dwg Size: 1.11 Mb
Plot Date: October 24, 2012
Plot Time: 1:56 PM
Attached Xrefs: FIG09 XS D-D
Layout:

GENERALIZED CROSS SECTION D - D'



LEGEND

	TOPSOIL		SANDY / SILTY CLAY
	SAND		CONCRETE
	CLAY		FILL
	SILT		GRAVEL

	STRATIGRAPHIC BOUNDARY BASED ON NEAREST SOIL BORING OR MONITORING WELL (DASHED WHERE INFERRED)
	APPROXIMATE GROUNDWATER ELEVATION
	PERCHED GROUNDWATER ELEVATION
	PIEZOMETRIC WATER LEVEL INDICATOR
	TEMPORARY WELL SCREEN
	WELL SCREEN
	SOIL GAS SAMPLE POINT SCREEN

PCE	= TETRACHLOROETHENE
TCE	= TRICHLOROETHENE
TCA	= 1,1,1-TRICHLOROETHANE
1,1-DCE	= 1,1-DICHLOROETHENE
1,1-DCA	= 1,1-DICHLOROETHANE
cis-DCE	= 1,2-cis-DICHLOROETHENE
trans-DCE	= 1,2-trans-DICHLOROETHENE
VC	= VINYL CHLORIDE
ND	= NOT DETECTED

NOTES

- GROUND SURFACE AND STRATIGRAPHIC CONTACTS ARE APPROXIMATE AND EXTRAPOLATED FROM NEAREST SOIL BORING DATA.
- SEE FIGURE 5 FOR LOCATION / ORIENTATION OF THIS GEOLOGIC CROSS SECTION.
- GROUNDWATER ANALYTICAL DATA REFLECTS MOST RECENT SAMPLE EVENT AS OF AUGUST 2012.
- DETECTED GROUNDWATER CONCENTRATIONS FOR CONSTITUENTS OF HIGHEST CONCERN ARE PROVIDED IN MICROGRAMS PER LITER.

1	DGS	10/24/12	MW-35D DATA / SS-10 ADDED	GC
NO.	BY	DATE	REVISION	APP'D
PROJECT: FORMER TECUMSEH PRODUCTS SITE TECUMSEH, MICHIGAN				
TITLE: CROSS SECTION D - D'				
DRAWN BY:	METZA/DGS	SCALE:	AS INDICATED	PROJ. NO. 192013.0000.01
CHECKED BY:	SEM	DATE PRINTED:		FILE: 192013.0000.01.06-11A.dwg
APPROVED BY:	GC			FIGURE 9
DATE:	SEPTEMBER 2012			



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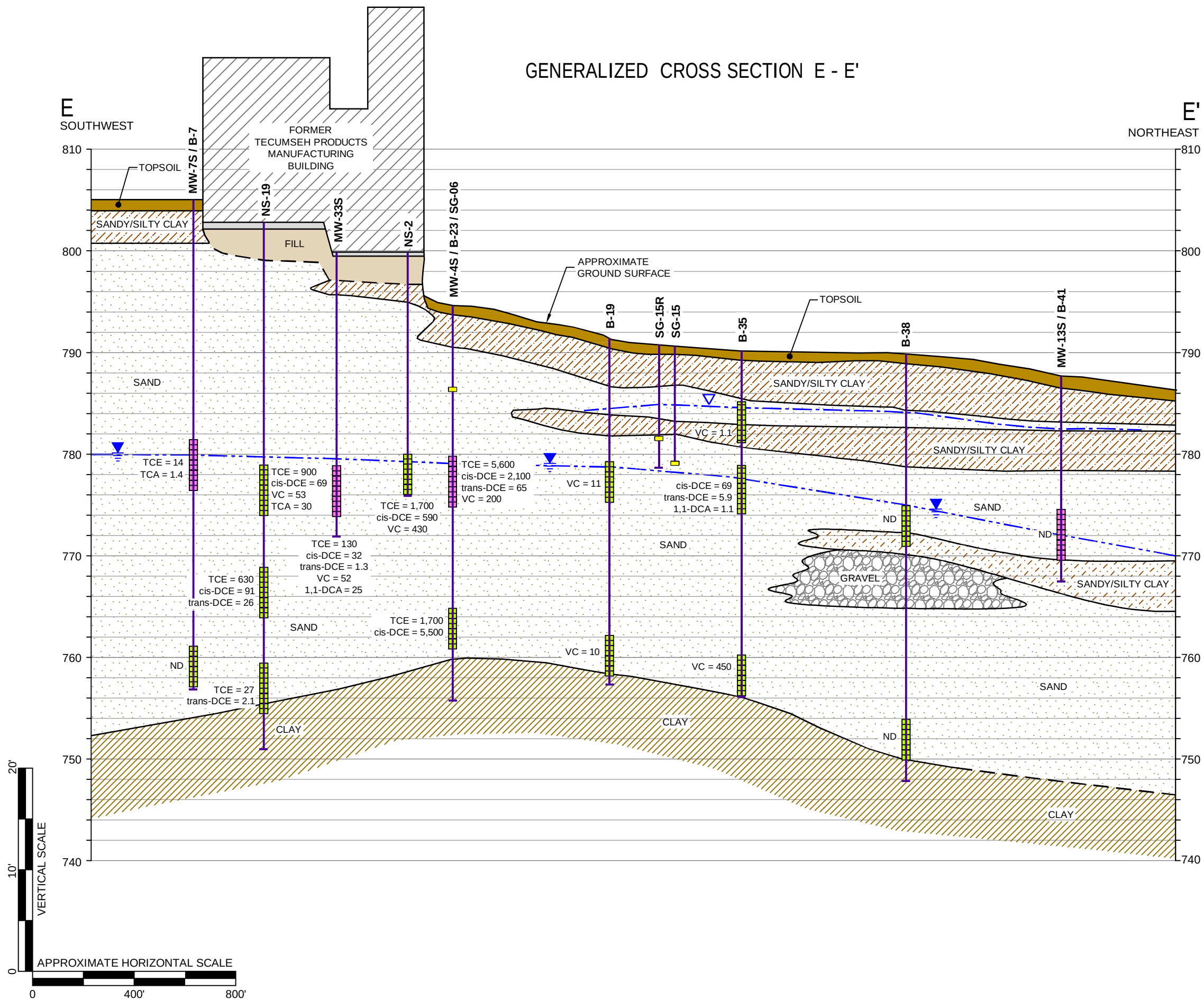
PLOT DATA

Drawing Name: J:_TRC\Tecomseh Products\Tecomseh MI\192013\000001\191 Rpt\192013.000001.06-11.dwg
Operator Name: STEHLE, DIANA
Drawing Plot Scale: 0.386863

Dwg Size: 1.82 Mb
Plot Date: September 26, 2012
Plot Time: 1:50 PM

Attached Xrefs:
Attached Images:
Layout:

FIG10 XS E-E



LEGEND

TOPSOIL	SANDY / SILTY CLAY
SAND	CONCRETE
CLAY	FILL
SILT	GRAVEL

NOTES

- GROUND SURFACE AND STRATIGRAPHIC CONTACTS ARE APPROXIMATE AND EXTRAPOLATED FROM NEAREST SOIL BORING DATA.
- SEE FIGURE 5 FOR LOCATION / ORIENTATION OF THIS GEOLOGIC CROSS SECTION.
- GROUNDWATER ANALYTICAL DATA REFLECTS MOST RECENT SAMPLE EVENT AS OF AUGUST 2012.
- DETECTED GROUNDWATER CONCENTRATIONS FOR CONSTITUENTS OF HIGHEST CONCERN ARE PROVIDED IN MICROGRAMS PER LITER.

PROJECT: FORMER TECUMSEH PRODUCTS SITE
TECUMSEH, MICHIGAN

TITLE: CROSS SECTION E - E'

DRAWN BY: DGS	SCALE: AS INDICATED	PROJ. NO. 192013.0000.01
CHECKED BY: SEM	DATE PRINTED:	FILE NO. 192013.0000.01.06-11.dwg
APPROVED BY: GC		FIGURE 10
DATE: SEPTEMBER 2012		

TRC

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PLOT DATA

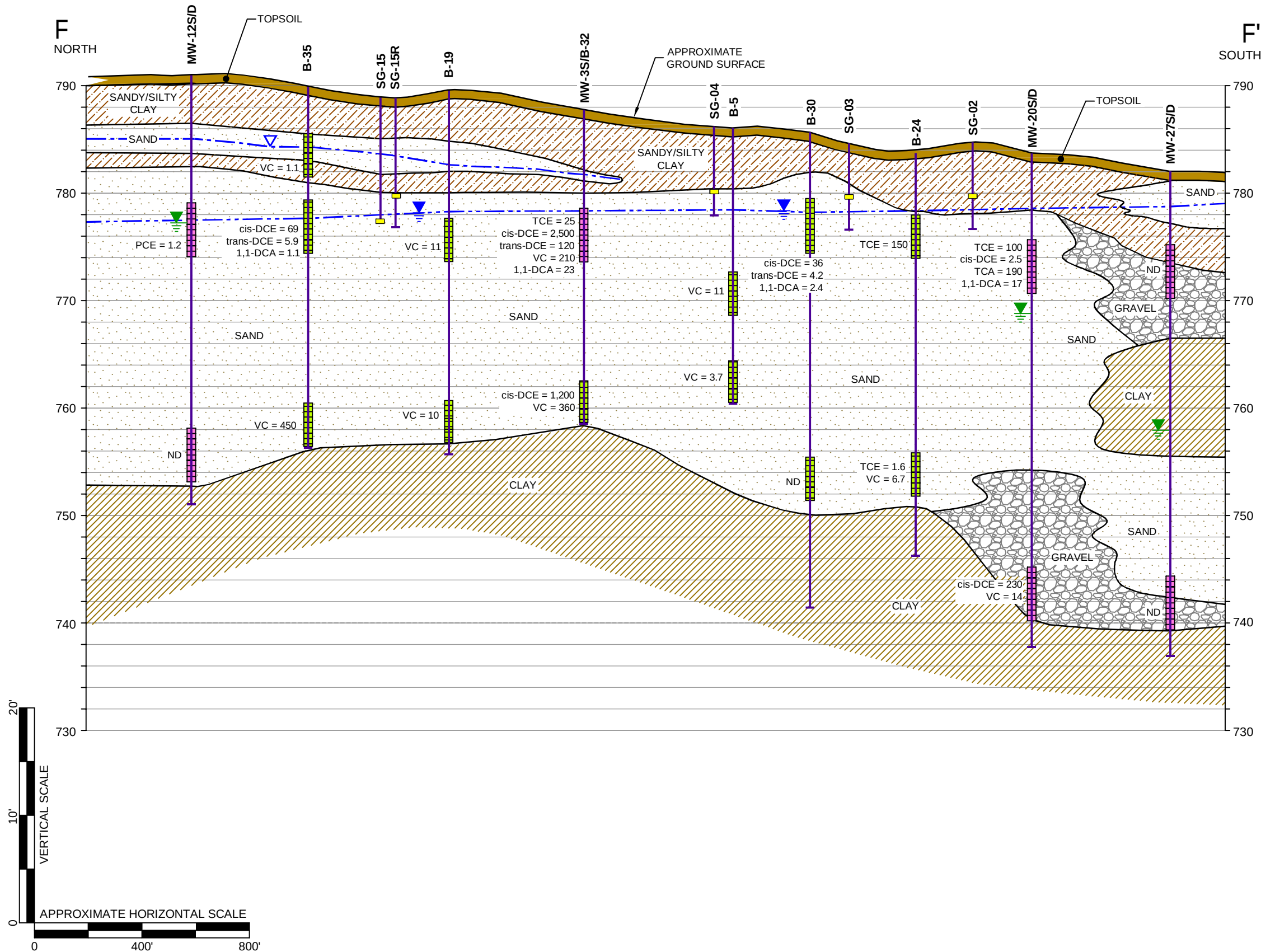
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Operator Name: STEHLE, DIANA
Drawing Plot Scale: 0.386863

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Plot Date: September 26, 2012
Plot Time: 1:54 PM

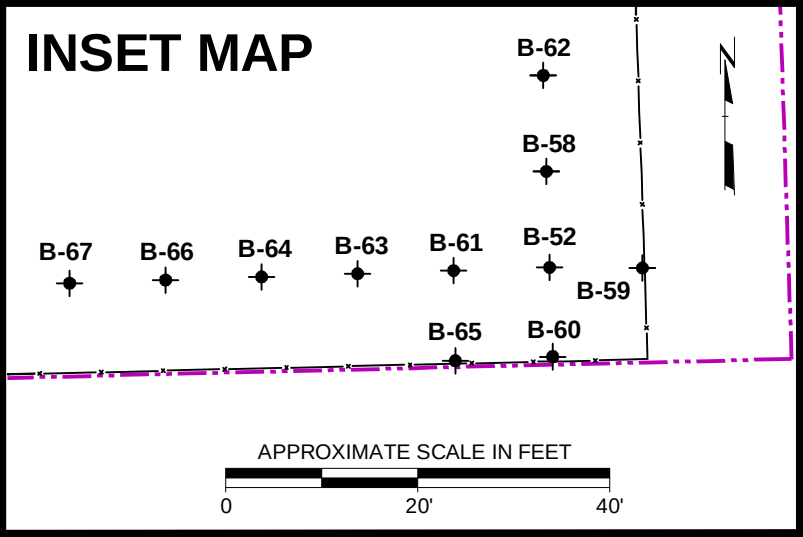
Attached Xrefs:
Attached Images:
Layout:

FIG11.XSF-F

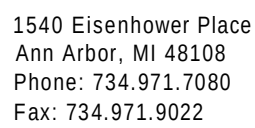
GENERALIZED CROSS SECTION F - F'

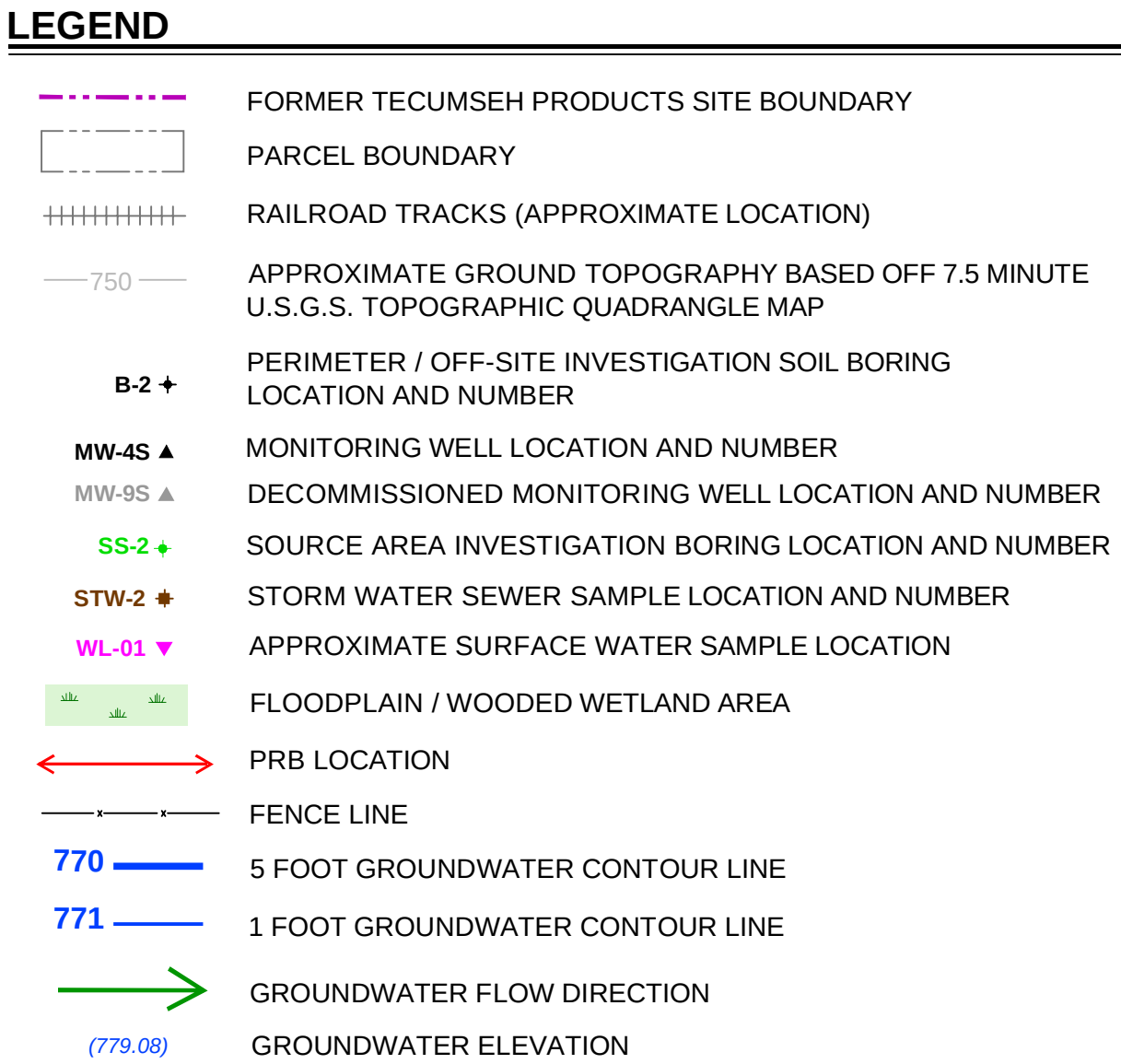


PROJECT: FORMER TECUMSEH PRODUCTS SITE TECUMSEH, MICHIGAN			
TITLE: CROSS SECTION F - F'			
DRAWN BY: DGS	SCALE: AS INDICATED	PROJ. NO. 192013.0000.01	FILE NO. 192013.0000.01.06-11.dwg
CHECKED BY: SEM	DATE PRINTED:	FIGURE 11	
APPROVED BY: GC	DATE: SEPTEMBER 2012		
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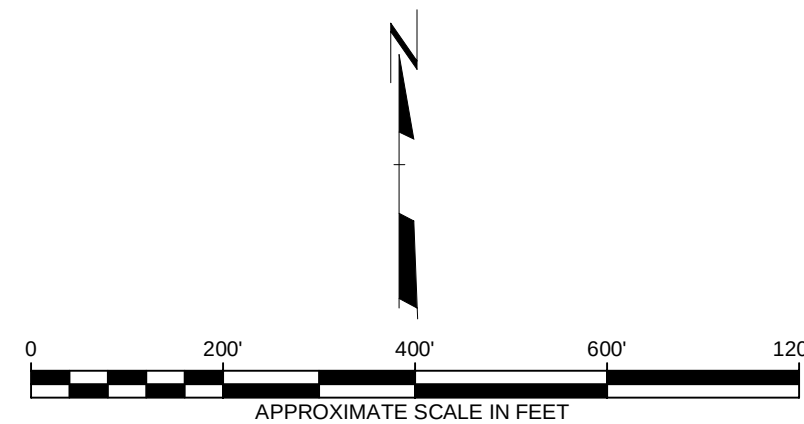


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NO.	BY	DATE	REVISION		APPRO
PROJ: FORMER TECUMSEH PRODUCTS SITE TECUMSEH, MICHIGAN					
TITLE: EXTENT OF THE INTERMEDIATE CLAY LAYER					
DRAWN BY: DGS		SCALE:		PROJ. NO.	192013.0000.01
CHECKED BY: SEM		AS INDICATED		FILE NO.	192013.0000.01.12.dwg
APPROVED BY: GC		DATE PRINTED:		FIGURE 12 1540 Eisenhower Place Ann Arbor, MI 48108 Phone: 734.971.7080 Fax: 734.971.9022	
DATE: SEPTEMBER 2012					





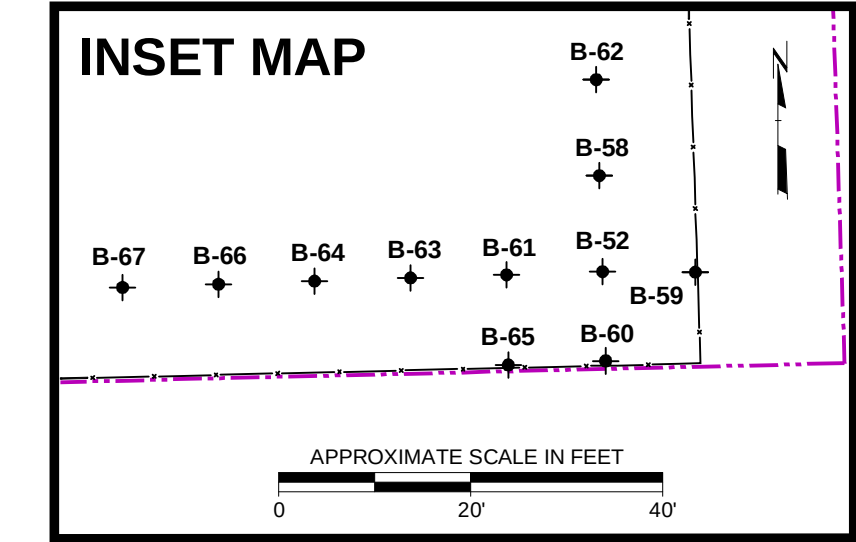
1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009.
2. GROUND TOPOGRAPHY BASED OFF 7.5 MINUTE U.S.G.S TOPOGRAPHIC QUADRANGLE MAP AND GROUND SURVEY DATA.
3. MW-14S IS SCREENED IN A DIFFERENT, PERCHED, WATER BEARING UNIT THAN THE OTHER SHALLOW MONITORING WELLS ON-SITE. THE GROUNDWATER ELEVATION MEASURED AT MW-14D WAS USED TO DEVELOP GROUNDWATER CONTOURS, BECAUSE MW-14D IS SCREENED IN THE DEEPER WATER BEARING UNIT WHICH IS HYDRAULICALLY CONNECTED TO THE SITE.
4. MEASURED DEPTH TO WATER IS ANOMALOUS. DATUM WAS NOT USED.



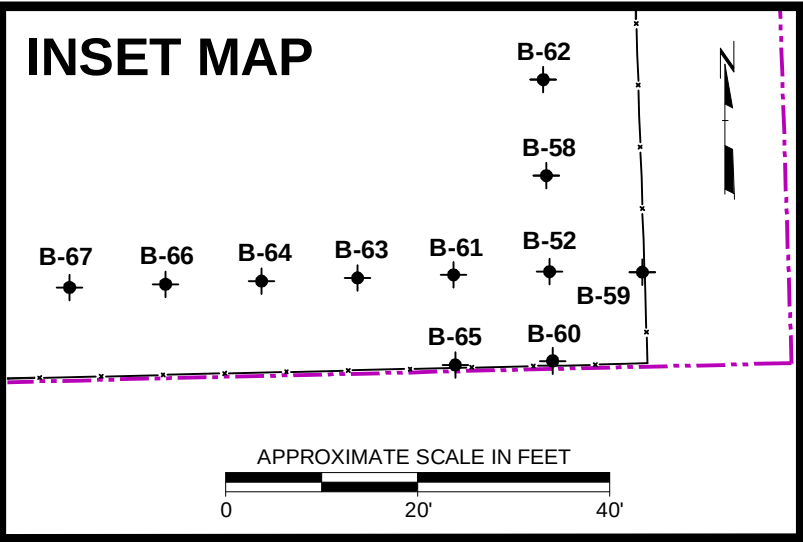
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NO.	BY	DATE	REVISION	APPD
PROJ.				
FORMER TECUMSEH PRODUCTS SITE TECUMSEH, MICHIGAN				
GROUNDWATER CONTOUR MAP JANUARY 2012				
TITLE:				
DRAWN BY:		DGS	SCALE:	PROJ. NO. 192013.0000.01
CHECKED BY:		SEM	AS INDICATED	FILE NO. 192013.0000.01.14.dwg
APPROVED BY:		GC	DATE PRINTED:	FIGURE 14
DATE: SEPTEMBER 2012				



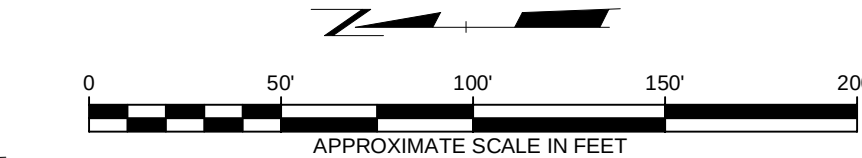
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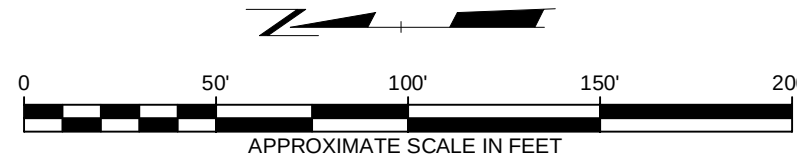


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NO.	BY	DATE	REVISION	APPD
PROJ.				
FORMER TECUMSEH PRODUCTS SITE TECUMSEH, MICHIGAN				
GROUNDWATER CONTOUR MAP APRIL 2012				
TITLE:				
DRAWN BY:		DGS	SCALE:	PROJ. NO. 192013.0000.01
CHECKED BY:		SEM	AS INDICATED	FILE NO. 192013.0000.01.15.dwg
APPROVED BY:		GC	DATE PRINTED:	FIGURE 15
DATE: SEPTEMBER 2012				



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NO.	BY	DATE	REVISION	APP'D
PROJ. FORMER TECUMSEH PRODUCTS SITE TECUMSEH, MICHIGAN				
TITLE: GROUNDWATER CONTOUR MAP JULY 2012				
DRAWN BY: DGS		SCALE:		PROJ. NO. 192013.0000.01
CHECKED BY: SEM		AS INDICATED		FILE NO. 192013.0000.01.16.dwg
APPROVED BY: GC		DATE PRINTED:		FIGURE 16
DATE: SEPTEMBER 2012				





LEGEND

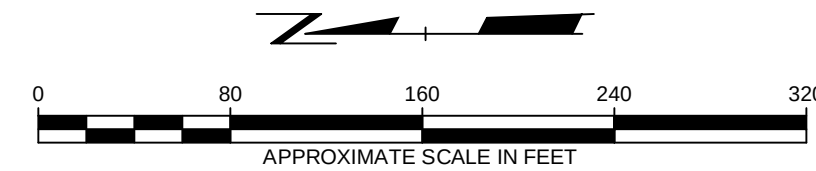
- FORMER TECUMSEH PRODUCTS SITE BOUNDARY
- PARCEL BOUNDARY
- RAILROAD TRACKS (APPROXIMATE LOCATION)
- FENCE LINE
- B-2 PERIMETER / OFF-SITE INVESTIGATION SOIL BORING LOCATION AND NUMBER
- MW-4S MONITORING WELL LOCATION AND NUMBER
- SS-2 SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- GP-23 ATC PHASE II ESA BORING NUMBER AND LOCATION
- SVE-4 SOIL VAPOR EXTRACTION WELL

KEY

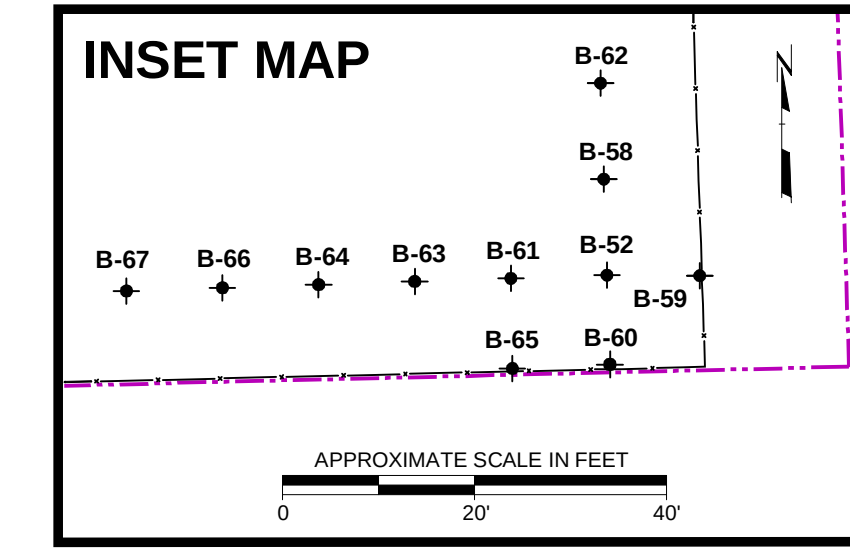
- SAMPLE LOCATION
- TETRACHLOROETHENE
TRICHLOROETHENE
1,1,1-TRICHLOROETHANE
- SAMPLE DEPTH
SAMPLE RESULTS IN mg/kg
BOLD font denotes concentrations detected above laboratory reporting limit.
Green shading denotes concentrations above one or more Michigan Part 201 Cleanup Criteria.
- NS = NO SOIL SAMPLE COLLECTED FOR VOCs ANALYSIS

NOTES

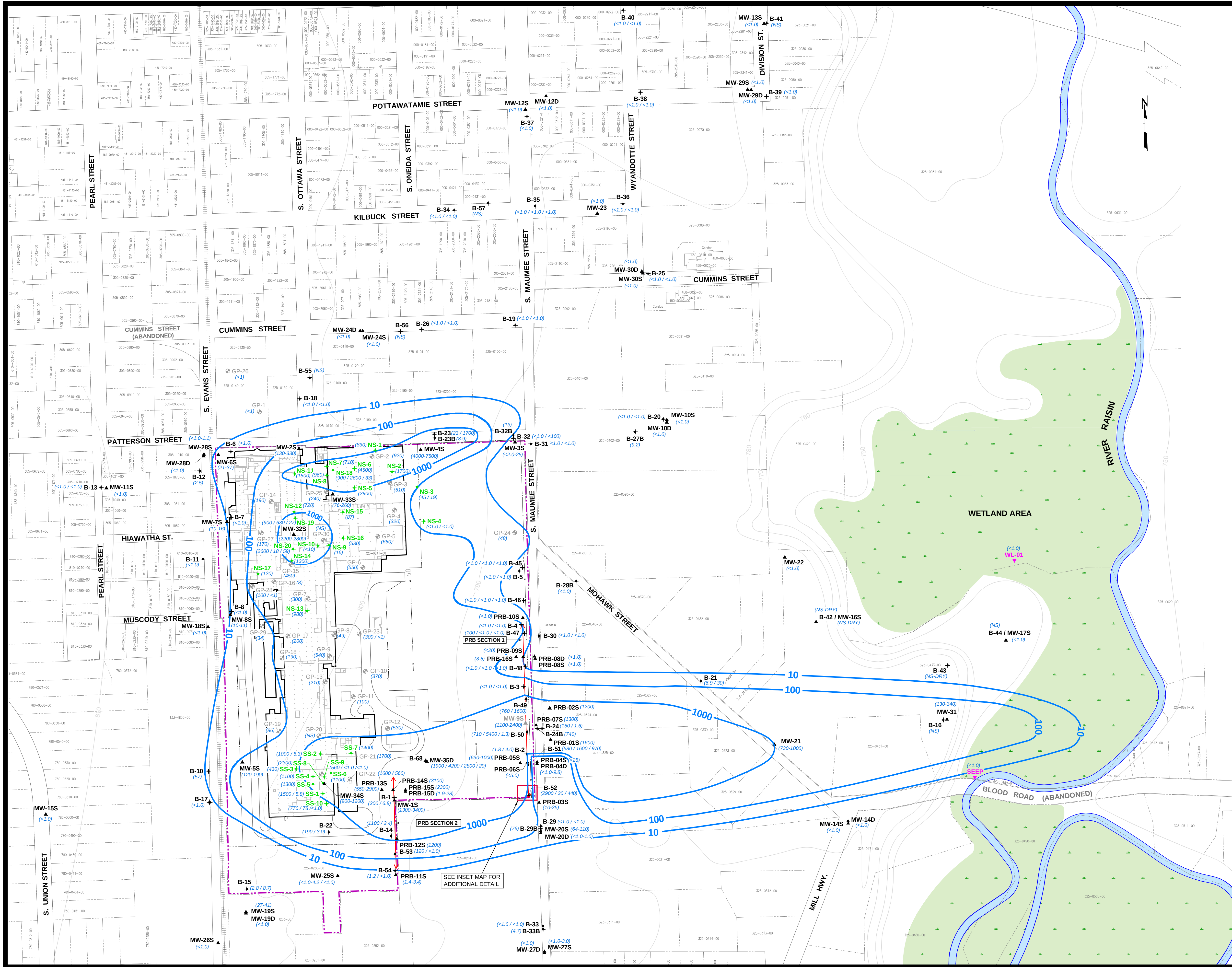
- BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009.
- GROUND TOPOGRAPHY BASED OFF 7.5 MINUTE U.S.G.S TOPOGRAPHIC QUADRANGLE MAP AND GROUND SURVEY DATA.



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NO.	BY	DATE	REVISION	APPD.
PROJECT: FORMER TECUMSEH PRODUCTS SITE TECUMSEH, MICHIGAN				
TITLE: DISTRIBUTION OF PARENT COMPOUNDS IN SOIL				
DRAWN BY:	DGS	SCALE:	PROJ. NO:	192013.0000.01
CHECKED BY:	SEM	AS INDICATED	FILE NO:	192013.0000.01.19.dwg
APPROVED BY:	GC	DATE PRINTED:	FIGURE 19	
DATE:	SEPTEMBER 2012			
TRC		1540 Eisenhower Place Ann Arbor, MI 48108 Phone: 734.971.7080 Fax: 734.971.9022		

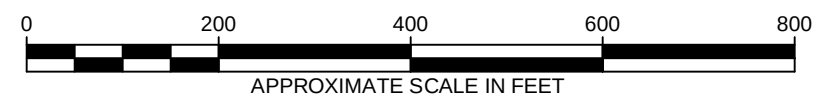
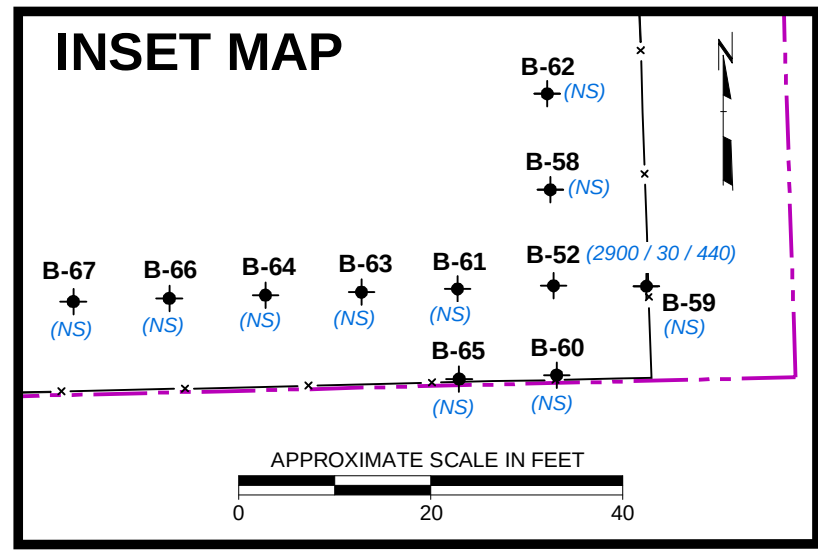


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NO.	BY	DATE	REVISION		APPD
PROJ: FORMER TECUMSEH PRODUCTS SITE TECUMSEH, MICHIGAN					
TITLE: EXTENT OF VOCs ABOVE PART 201 CRITERIA					
DRAWN BY: DGS		SCALE:		PROJ. NO.	192013.0000.01
CHECKED BY: SEM		AS INDICATED		FILE NO.	192013.0000.01.20.dwg
APPROVED BY: GC		DATE PRINTED:		FIGURE 20	
DATE: SEPTEMBER 2012					
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- LEGEND**
- FORMER TECUMSEH PRODUCTS SITE BOUNDARY
 - PARCEL BOUNDARY
 - RAILROAD TRACKS (APPROXIMATE LOCATION)
 - APPROXIMATE GROUND TOPOGRAPHY BASED OFF 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP
 - B-2 + PERIMETER / OFF-SITE INVESTIGATION SOIL BORING LOCATION AND NUMBER
 - MW-4S ▲ MONITORING WELL LOCATION AND NUMBER
 - MW-9S ▲ DECOMMISSIONED MONITORING WELL LOCATION AND NUMBER
 - SS-2+ SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
 - GP-24 ATC GEOPROBE BORING LOCATION AND NUMBER
 - WL-01 ▼ APPROXIMATE SURFACE WATER SAMPLE LOCATION
 - FLOODPLAIN / WOODED WETLAND AREA
 - PRB LOCATION
 - FENCE LINE
 - APPROXIMATE TRICHLOROETHENE ISOCONCENTRATION LINE
 - 100 TRICHLOROETHENE CONCENTRATION IN ug/L (SEE NOTES 3 AND 4)
 - (13) TRICHLOROETHENE CONCENTRATION RANGE IN ug/L (SEE NOTES 3 AND 4)
 - (76-260) TRICHLOROETHENE CONCENTRATION RANGE IN ug/L WHERE SAMPLES WERE COLLECTED AT MULTIPLE DEPTHS. CONCENTRATIONS ARE LISTED IN ORDER OF INCREASING DEPTH (SEE NOTE 3)
 - (45 / 19) TRICHLOROETHENE CONCENTRATION IN ug/L WHERE SAMPLES WERE COLLECTED AT MULTIPLE DEPTHS. CONCENTRATIONS ARE LISTED IN ORDER OF INCREASING DEPTH (SEE NOTE 3)
 - (NS) NO SAMPLE COLLECTED FOR TRICHLOROETHENE ANALYSIS

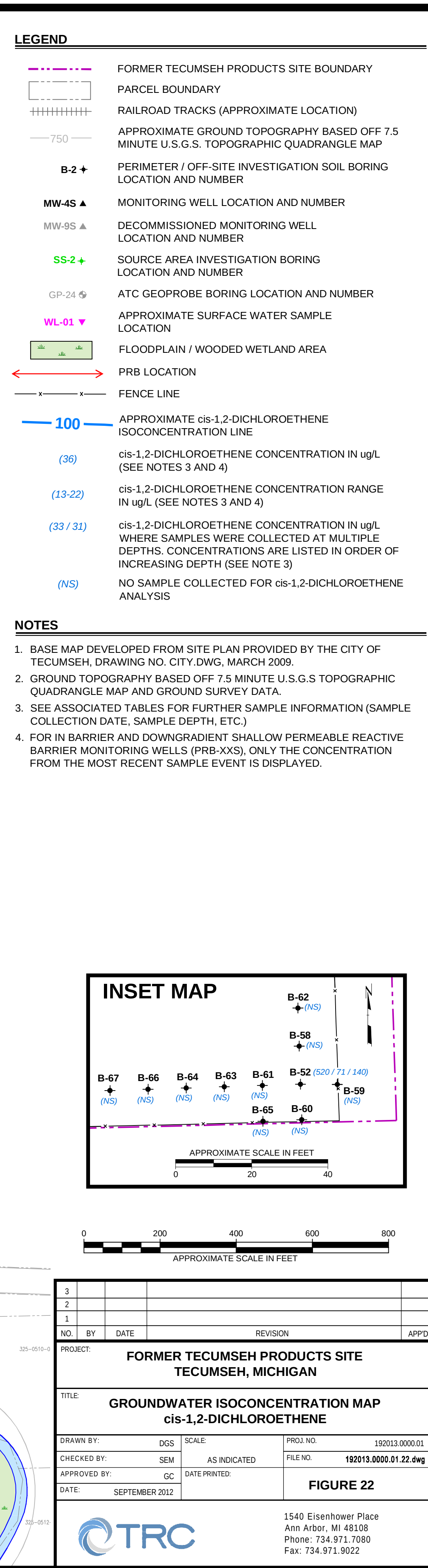
- NOTES**
- BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009.
 - GROUND TOPOGRAPHY BASED OFF 7.5 MINUTE U.S.G.S TOPOGRAPHIC QUADRANGLE MAP AND GROUND SURVEY DATA.
 - SEE ASSOCIATED TABLES FOR FURTHER SAMPLE INFORMATION (SAMPLE COLLECTION DATE, SAMPLE DEPTH, ETC.).
 - FOR IN BARRIER AND DOWN GRADIENT SHALLOW PERMEABLE REACTIVE BARRIER MONITORING WELLS, (PRB-XXS) ONLY THE CONCENTRATION FROM THE MOST RECENT SAMPLE EVENT IS DISPLAYED.

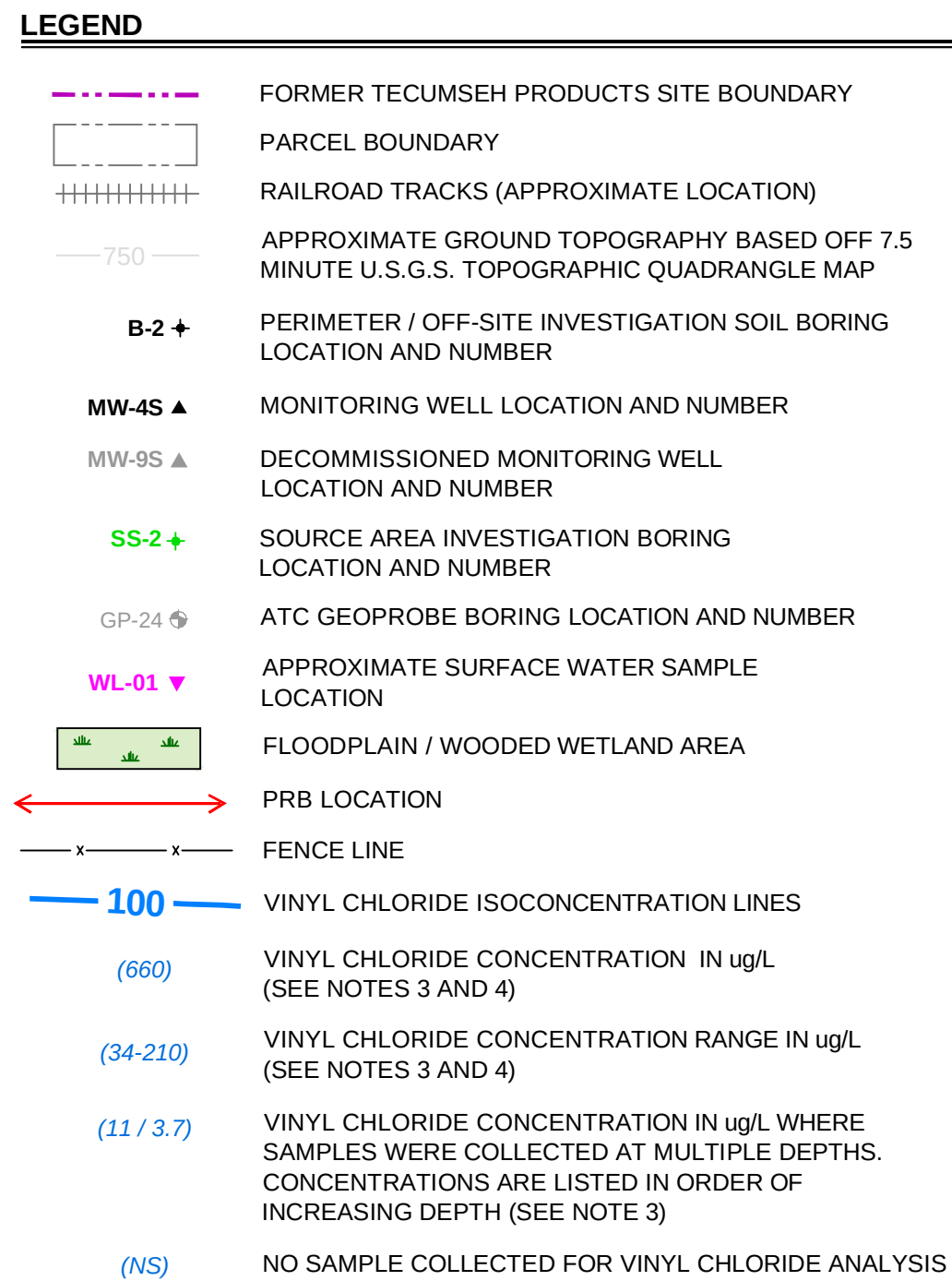


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NO.	BY	DATE	REVISION		APPD
PROJECT: FORMER TECUMSEH PRODUCTS SITE TECUMSEH, MICHIGAN					
TITLE: GROUNDWATER ISOCONCENTRATION MAP TRICHLOROETHENE					
DRAWN BY:	DGS	SCALE:	PROJ. NO.	192013.0000.01	
CHECKED BY:	SEM	AS INDICATED	FILE NO.	192013.0000.01.21.dwg	
APPROVED BY:	GC	DATE PRINTED:	FIGURE 21		
DATE:	SEPTEMBER 2012				



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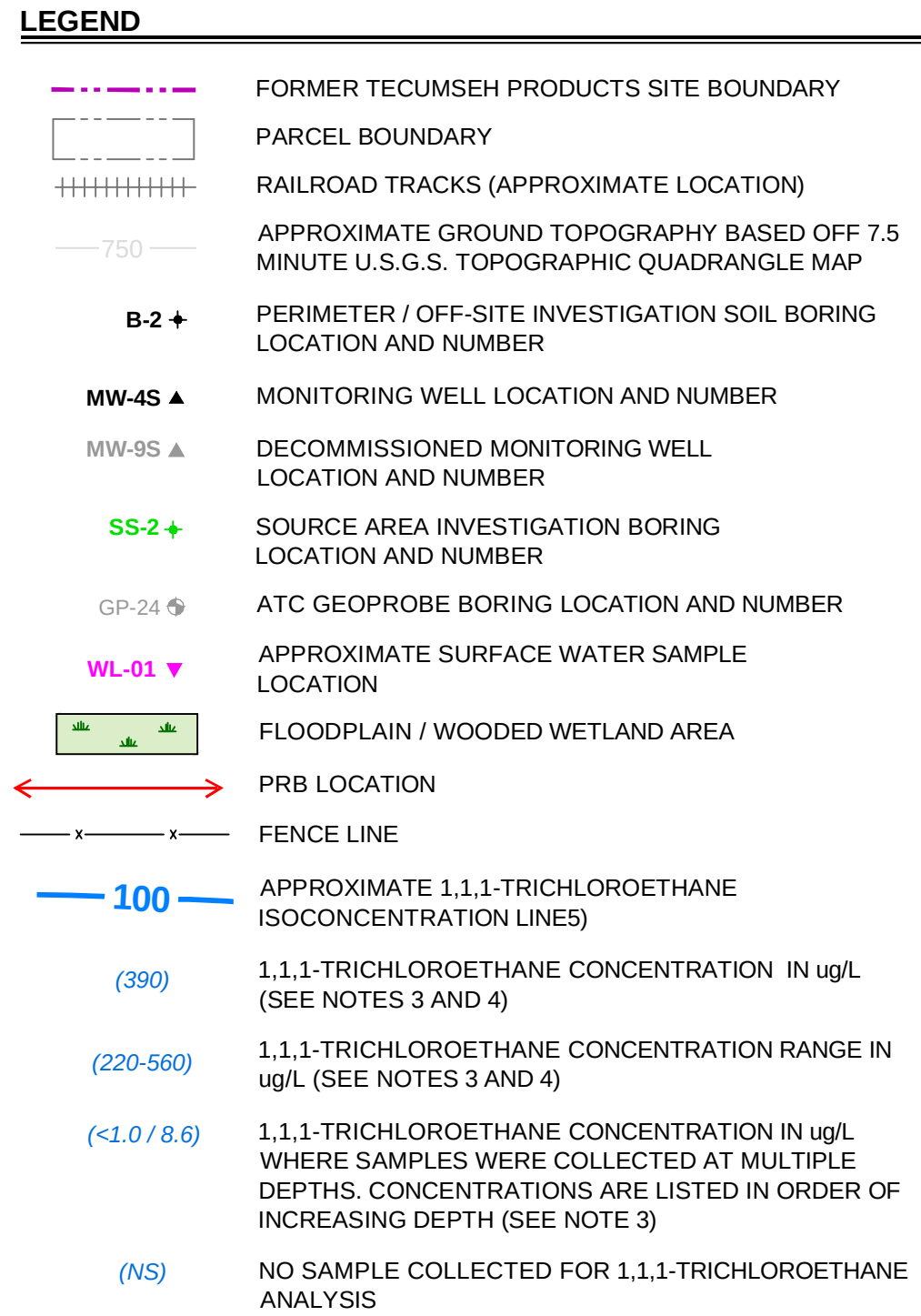




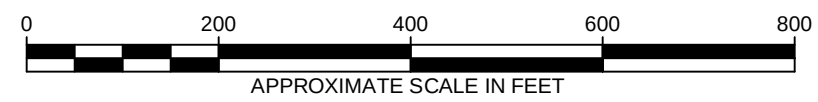
1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECEMSEH, DRAWING NO. CITY/DWG, MARCH 2009.
2. GROUND TOPOGRAPHY BASED OFF 7.5 MINUTE U.S.G.S TOPOGRAPHIC QUADRANGLE MAP AND GROUND SURVEY DATA.
3. SEE ASSOCIATED TABLES FOR FURTHER SAMPLING INFORMATION (SAMPLE COLLECTION DATE, SAMPLE DEPTH, ETC.).
4. FOR IN BARRIER AND DOWNGRADIENT SHALLOW PERMEABLE REACTIVE BARRIER MONITORING WELLS (PRB-XXS), ONLY THE CONCENTRATION FROM THE MOST RECENT SAMPLE EVENT IS DISPLAYED.



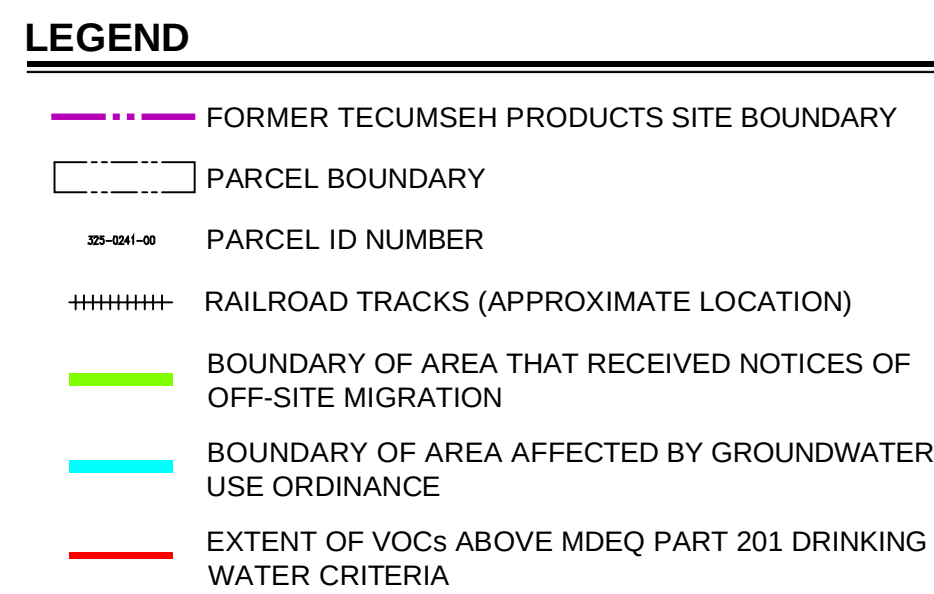
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1. BASE MAP DEVELOPED FROM CITY PLAN PROVIDED BY THE CITY OF TUCUMSEH, DRAWING NO. SITE.DWG, MARCH 2009.
2. GROUND TOPOGRAPHY BASED OFF 7.5 MINUTE U.S.G.S TOPOGRAPHIC QUADRANGLE MAP AND GROUND SURVEY DATA.
3. SEE ASSOCIATED TABLES FOR FURTHER SAMPLING INFORMATION (SAMPLE COLLECTION DATE, SAMPLE DEPTH, ETC.).
4. FOR IN BARRIER AND DOWNGRADIANT SHALLOW PERMEABLE REACTIVE BARRIER MONITORING WELLS (PRB-XXS), ONLY THE CONCENTRATION FROM THE MOST RECENT SAMPLE EVENT IS DISPLAYED.

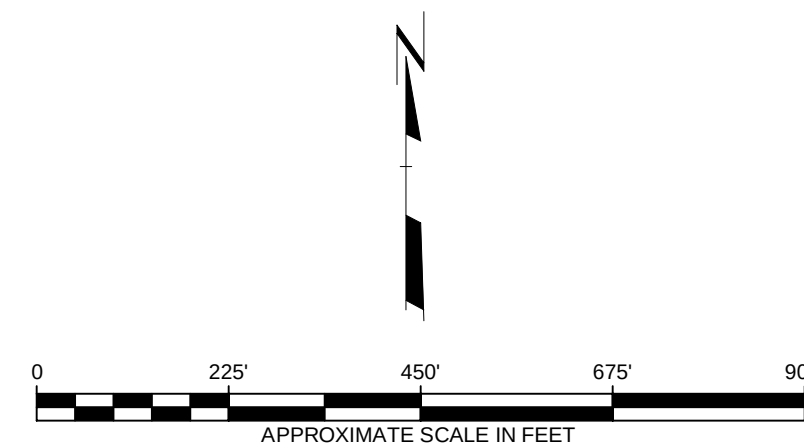


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	PROPERTIES WITH A PRIVATE WELL THAT WAS NOT IN USE (2011)
	PROPERTIES WITH A PRIVATE WELL USED AS A PRIMARY WATER SUPPLY IN 2011
	PROPERTIES WITH A PRIVATE WELL USED AS A SECONDARY WATER SUPPLY IN 2011
	PRIVATE WELL HAS BEEN DECOMMISSIONED (2011/2012)

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009.



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NO.	BY	DATE	REVISION		APP'D
PROJECT FORMER TECUMSEH PRODUCTS SITE TECUMSEH, MICHIGAN					
TITLE PRIVATE WELL SURVEY RESULTS AND WELL STATUS UPDATE JUNE 2012					
DRAWN BY:		DGS	SCALE:	PROJECT NO. 192013.0000.01	
CHECKED BY:		SEM	AS INDICATED	FILE NO. 192013.0000.01.25.dwg	
APPROVED BY:		GC	DATE PRINTED:	FIGURE 25	
DATE:		SEPTEMBER 2012			