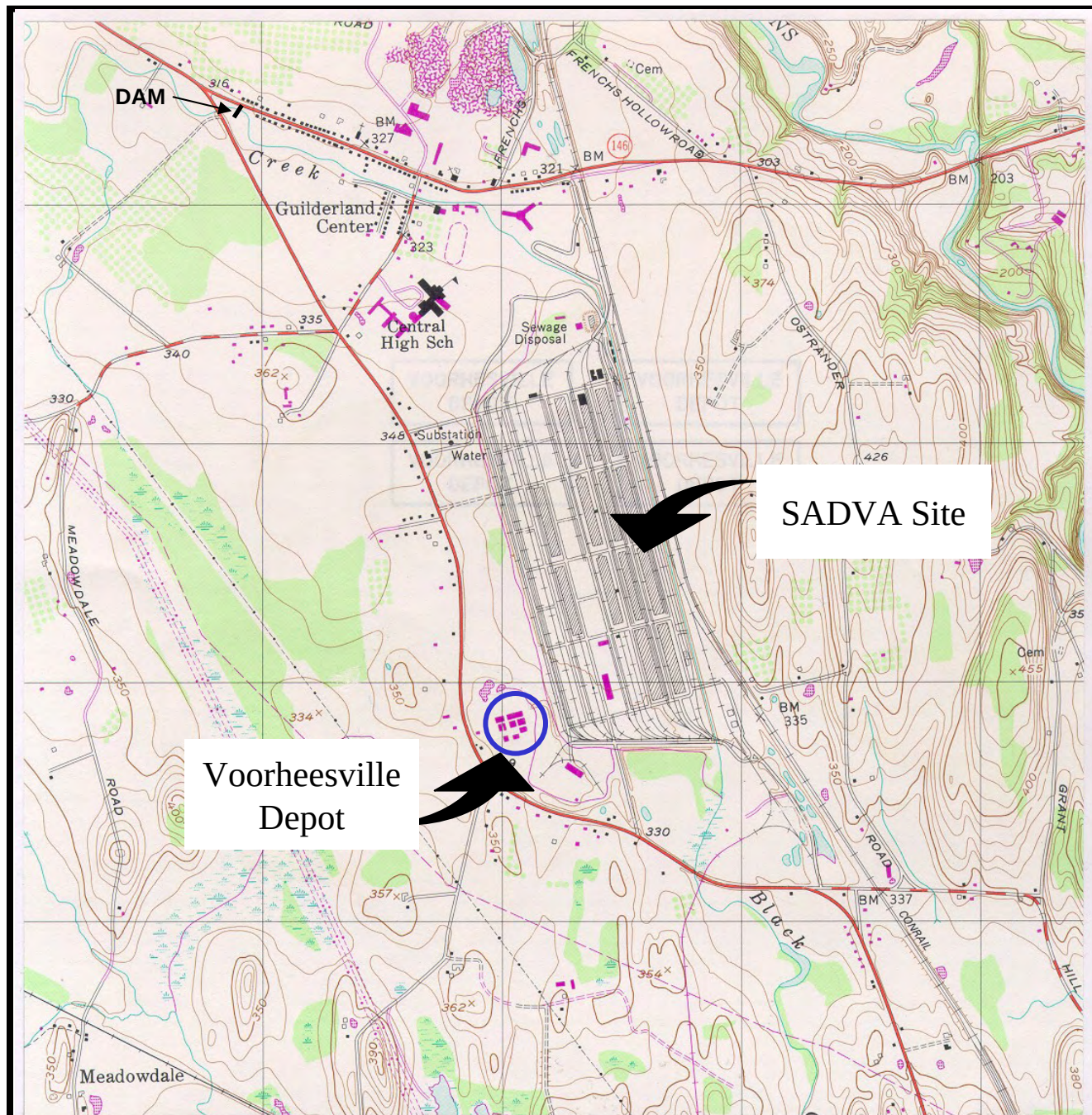


New York
Quadrangle



LATITUDE: N42° 15' 20"
LONGITUDE: W75° 14' 38"

0 1000 2000
Approximate Scale in Feet

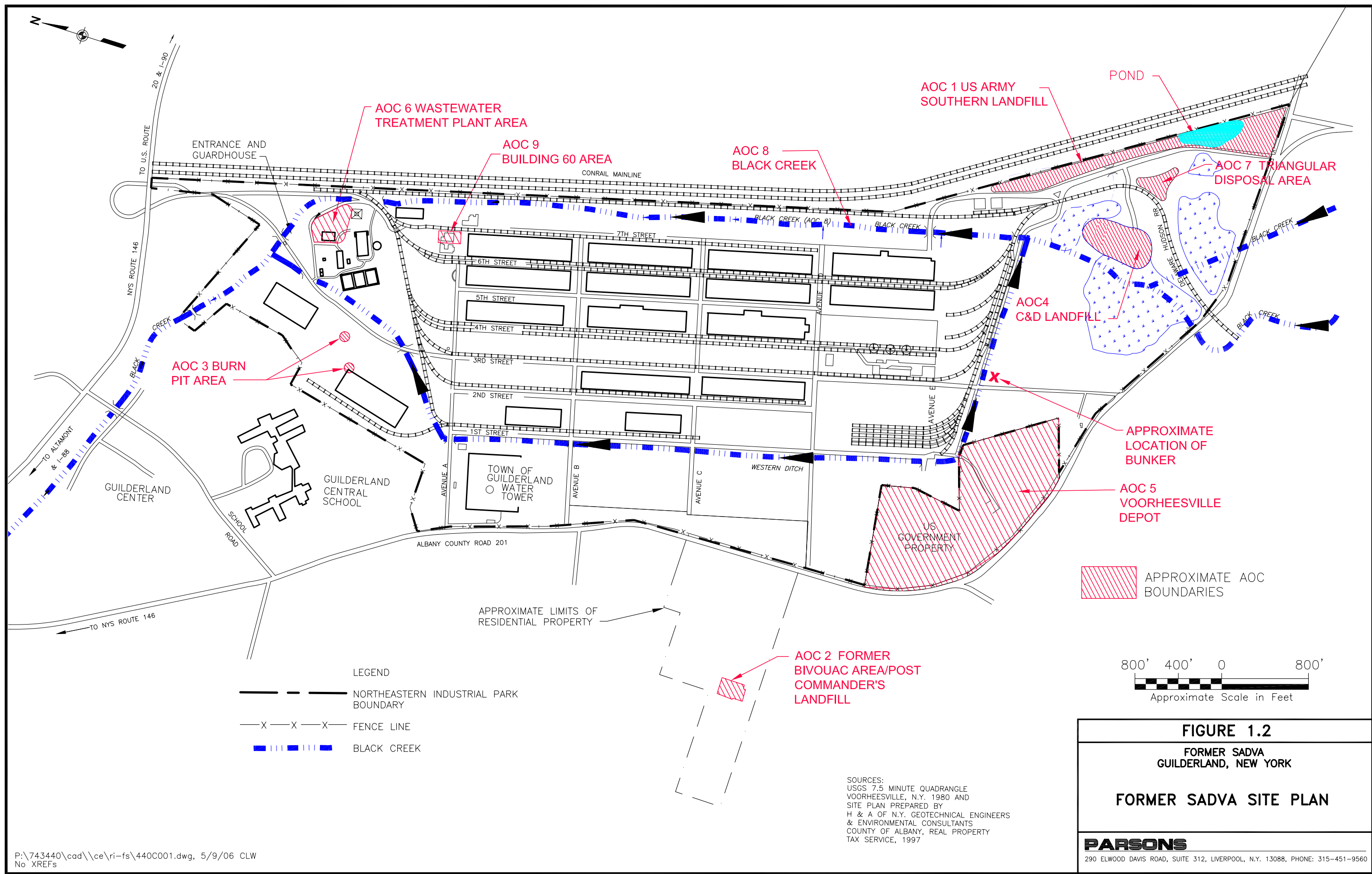
FIGURE 1.1

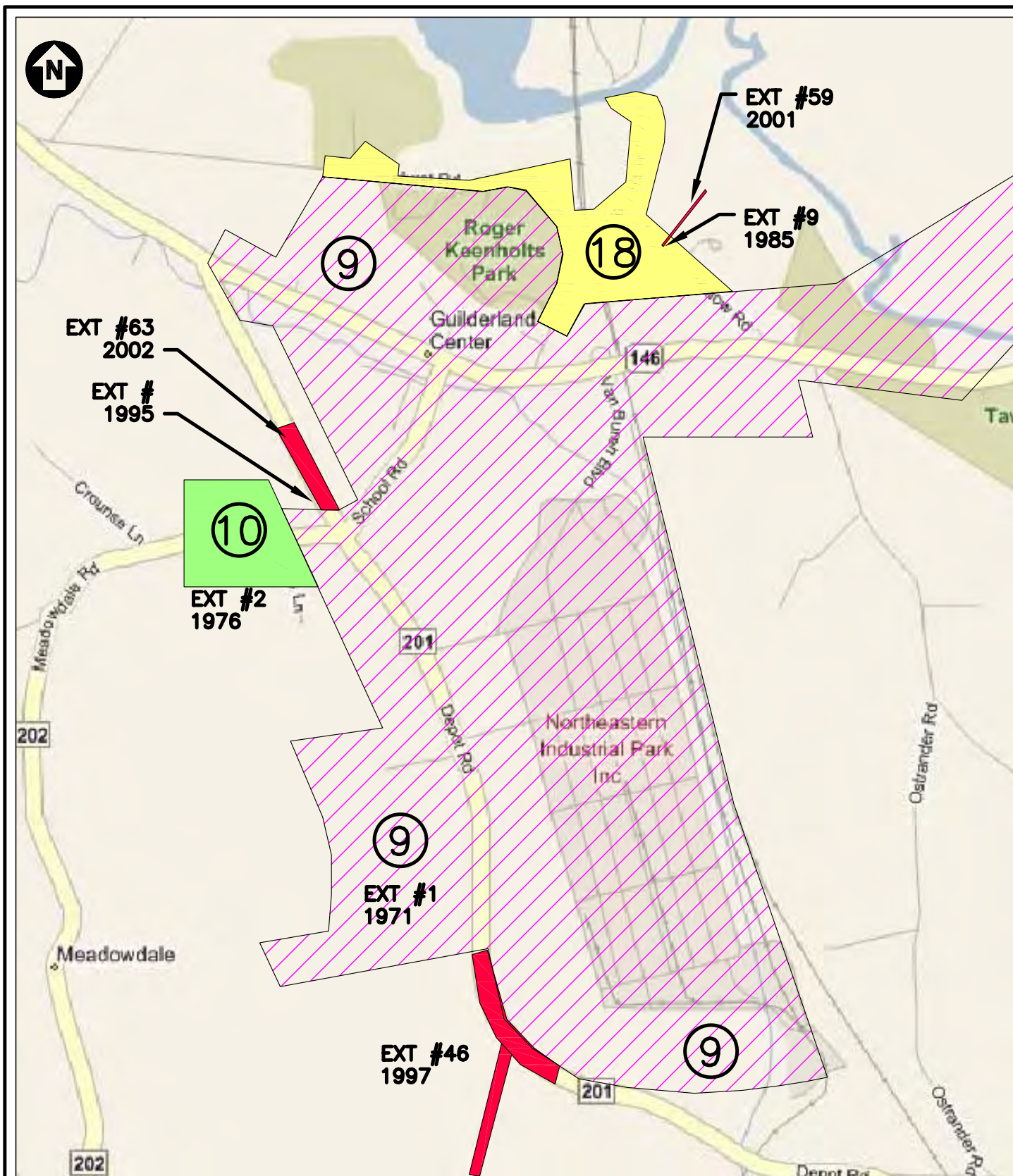
SADVA
GUILDERLAND, NEW YORK

SITE VICINITY MAP

PARSONS

290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, NY 13088 PHONE: (315) 451-9560





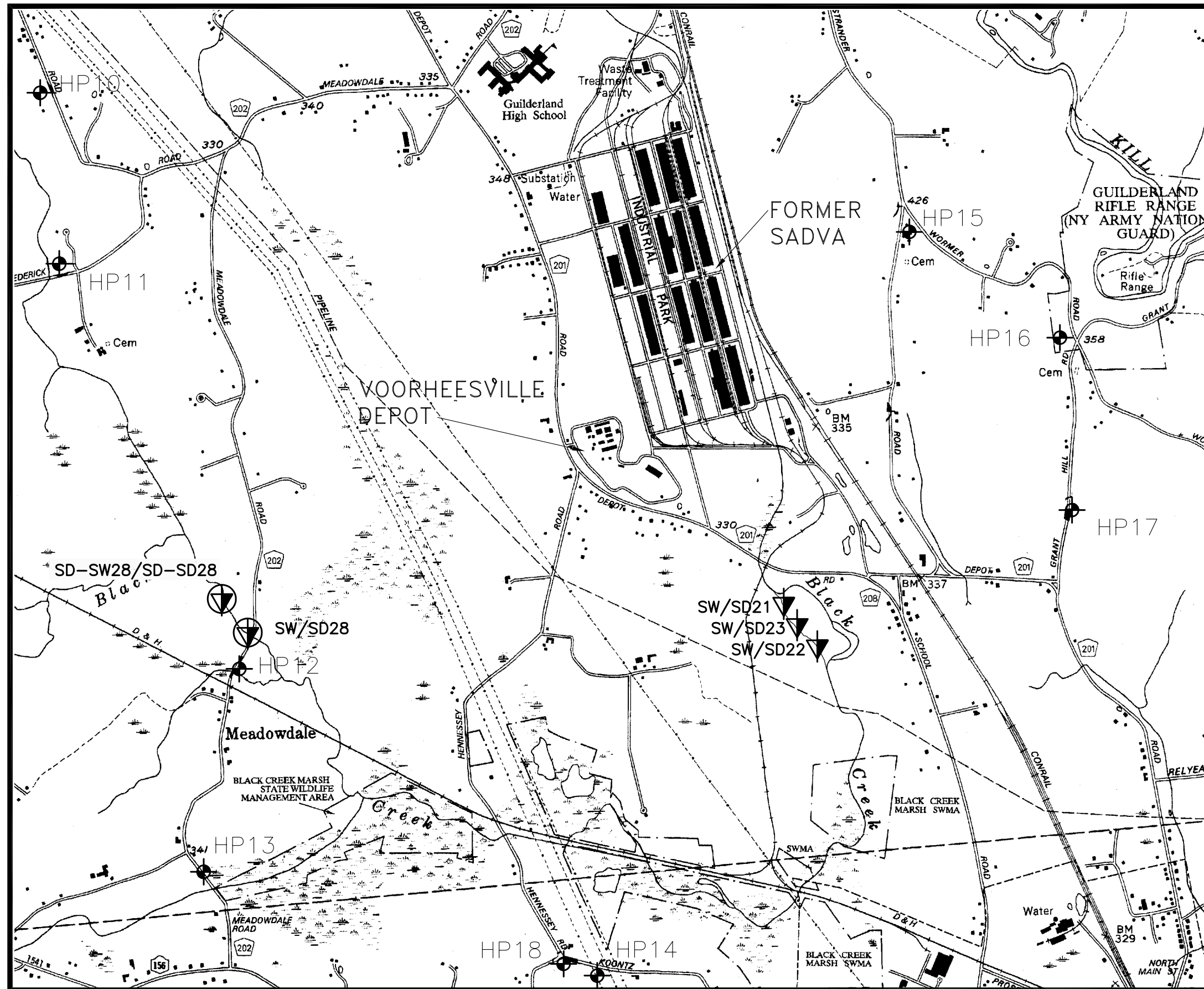
NOT TO SCALE

FIGURE 2.1

**FORMER SADVA
GUILDERLAND, NEW YORK
GUILDERLAND WATER SYSTEM
COVERAGE**

PARSON

290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, N.Y. 13088, PHONE: 315-451-9560



LEGEND



- SW/SD21 SURFACE WATER/SEDIMENT SAMPLE LOCATION (COLLECTED AUGUST AND OCTOBER 2000)
- SW/SD28 SURFACE WATER/SEDIMENT SAMPLE LOCATION (COLLECTED OCTOBER 2002 OR JULY 2004)
- FENCING
- HP14 BACKGROUND SURFACE SOIL SAMPLE LOCATION (COLLECTED OCTOBER 2000)
- SADVA SCHENECTADY ARMY DEPOT VOORHEESVILLE AREA

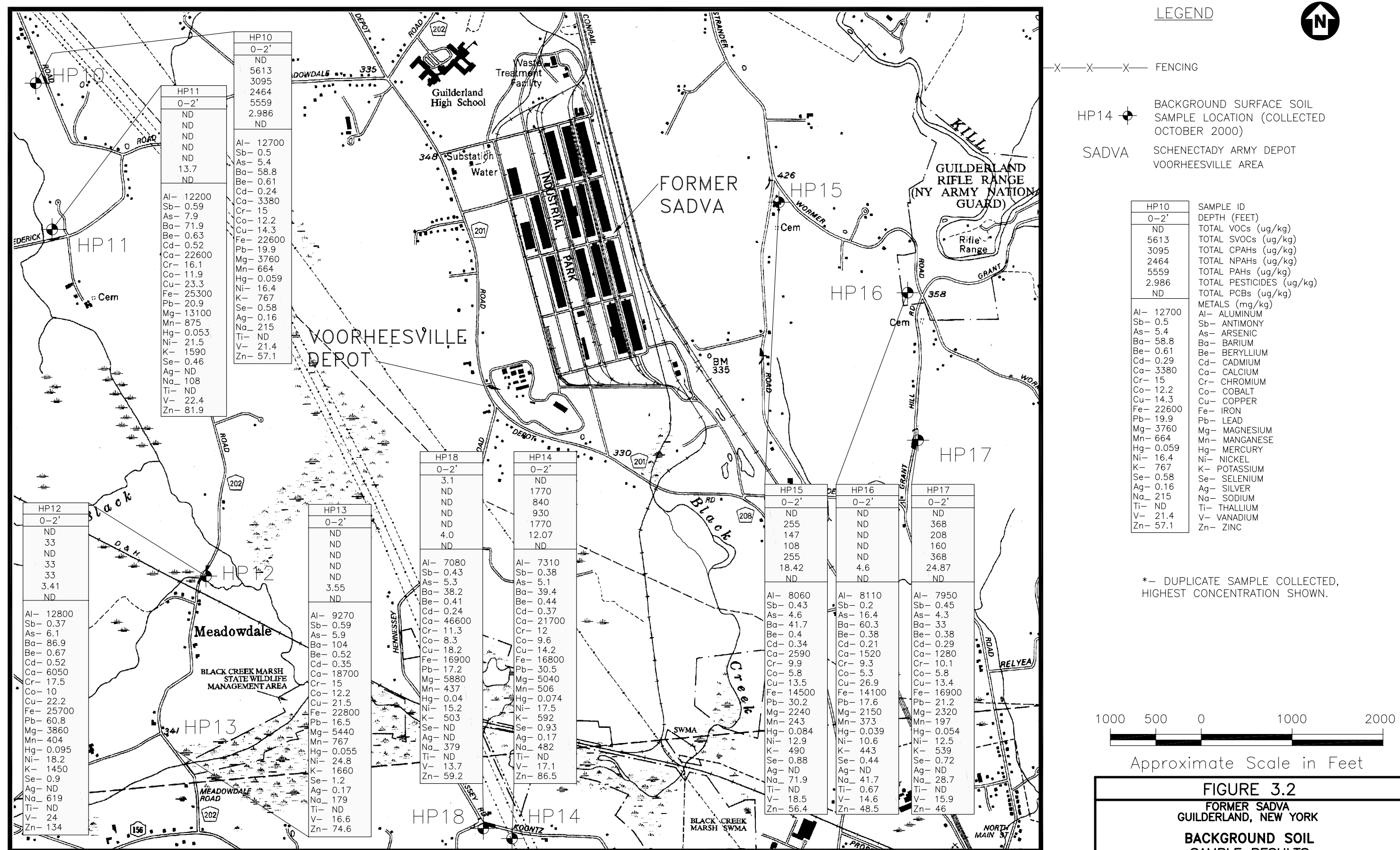
1000 500 0 1000 2000

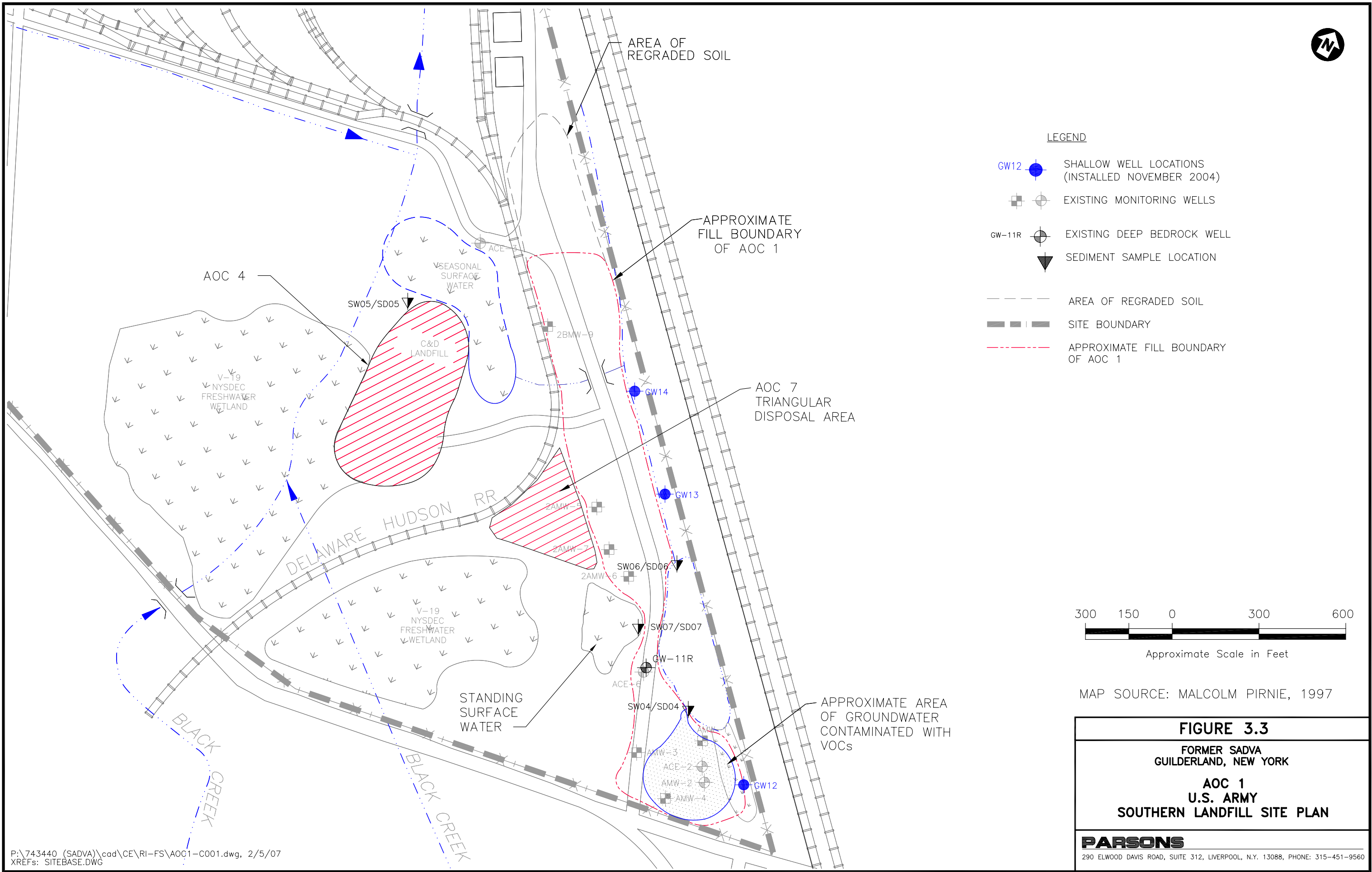
Approximate Scale in Feet

FIGURE 3.1
FORMER SADVA
GUILDERLAND, NEW YORK
BACKGROUND SAMPLE LOCATION MAP

PARSONS

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LEGEND



SURFACE WATER SAMPLE LOCATION
(COLLECTED JULY 2000)

ND
*

NOT DETECTED
DUPLICATE SAMPLE COLLECTED HIGHEST
CONCENTRATION SHOWN

73

ONE OR MORE COMPOUNDS OR METAL
CONCENTRATIONS EXCEEDING NYSDEC
STANDARDS/GUIDANCE VALUES AND UPSTREAM
RANGES.



AREA OF REGRADED SOIL



SITE BOUNDARY



APPROXIMATE FILL BOUNDARY

SW07	
VOCs	2.8
SVOCs	ND
PESTICIDES	ND
PCBs	ND
METALS	NONE

SAMPLE ID
TOTAL VOCs (ug/L)
TOTAL SVOCs (ug/L)
TOTAL PESTICIDES (ug/L)
TOTAL PCBs (ug/L)
TOTAL METALS
(THE NUMBER OF METALS THAT EXCEED UPSTREAM
AND SEDIMENT CRITERIA CONCENTRATIONS IS GIVEN)

SW04	
VOCs	ND
SVOCs	73
PESTICIDES	ND
PCBs	ND
METALS	NONE

SW07	
VOCs	2.8
SVOCs	ND
PESTICIDES	ND
PCBs	ND
METALS	NONE

SW06	
VOCs	3.49
SVOCs	19
PESTICIDES	ND
PCBs	ND
METALS	NONE



Approximate Scale in Feet

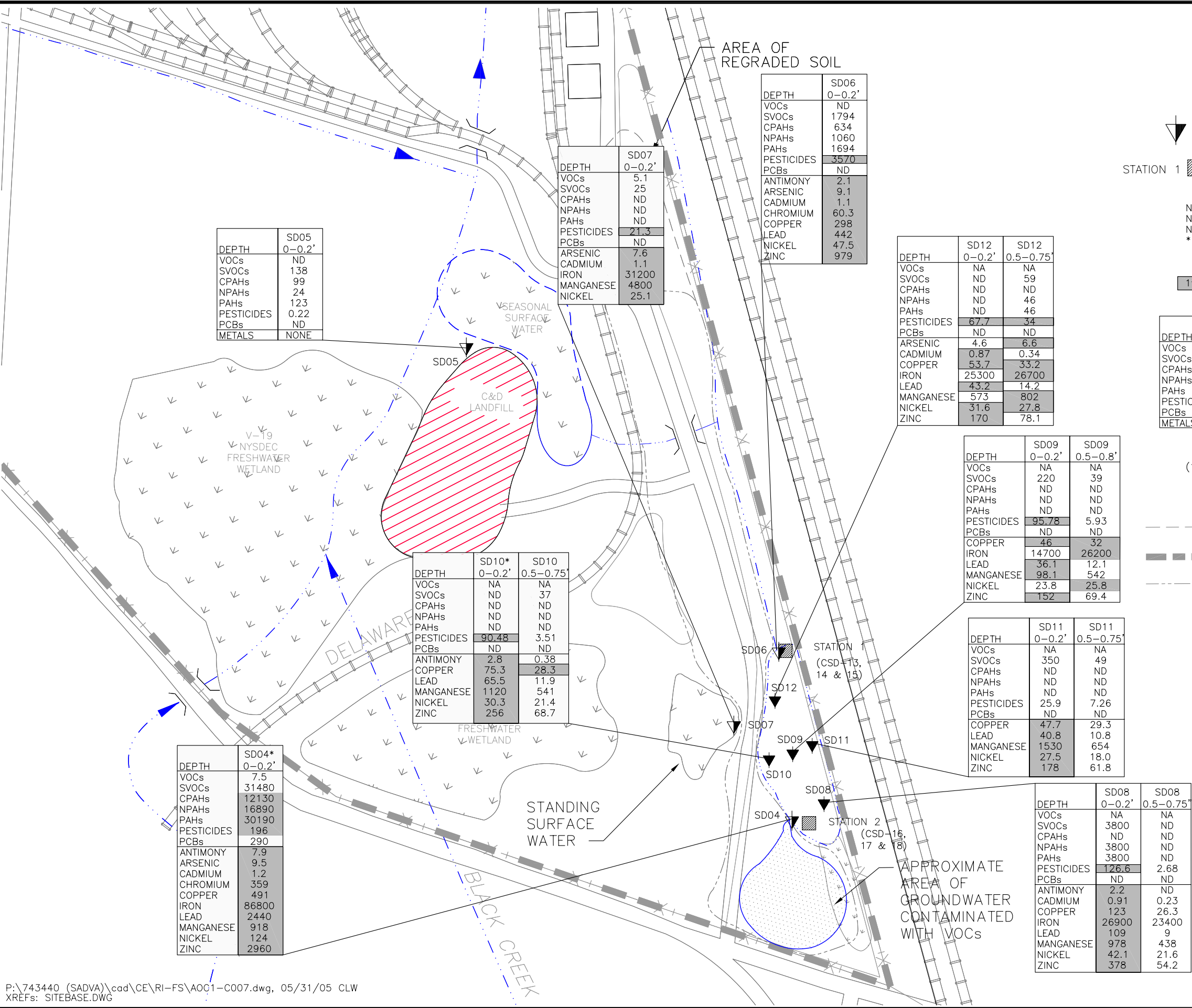
MAP SOURCE: MALCOLM PIRNIE, 1997

FIGURE 3.4

FORMER SADVA
GUILDERLAND, NEW YORK
AOC 1
U.S. ARMY
SOUTHERN LANDFILL
SURFACE WATER ANALYTICAL RESULTS

PARSONS

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LEGEND

- SEDIMENT SAMPLE LOCATION (COLLECTED IN JULY 2000 AND 2004)
- MACROINVERTEBRATE STUDY SEDIMENT SAMPLING LOCATIONS (CSD-13 THROUGH CSD-18)
- NA NOT ANALYZED
ND NOT DETECTED
NS NOT SPECIFIED
* DUPLICATE SAMPLE COLLECTED - HIGHEST CONCENTRATION IS SHOWN

193 ONE OR MORE COMPOUNDS OR METAL CONCENTRATIONS EXCEEDING NYSDEC SEDIMENT OR BACKGROUND CRITERIA

DEPTH	SD04 0-0.2'	SAMPLE ID DEPTH IN FEET
VOCs	7.5	TOTAL VOCs (ug/kg)
SVOCs	30450	TOTAL SVOCs (ug/kg)
CPAHs	12130	TOTAL CPAHs (ug/kg)
NPAHs	16890	TOTAL NPAHs (ug/kg)
PAHs	29020	TOTAL PAHs (ug/kg)
PESTICIDES	193	TOTAL PESTICIDES (ug/kg)
PCBs	69	TOTAL PCBs (ug/kg)
METALS	NONE	TOTAL METALS (1) (mg/kg)

(1) ONLY THOSE METAL CONCENTRATIONS EXCEEDING NYSDEC SEDIMENT AND UPSTREAM CRITERIA ARE SHOWN. "NONE" MEANS NO METALS CONCENTRATIONS WERE ABOVE CRITERIA AND UPSTREAM CONCENTRATION.

- AREA OF REGRADED SOIL
- SITE BOUNDARY
- APPROXIMATE FILL BOUNDARY



MAP SOURCE: MALCOLM PIRNIE, 1997

FIGURE 3.5

FORMER SADVA
GUILDERLAND, NEW YORK
AOC 1
U.S. ARMY
SOUTHERN LANDFILL
SEDIMENT SAMPLE RESULTS

PARSONS

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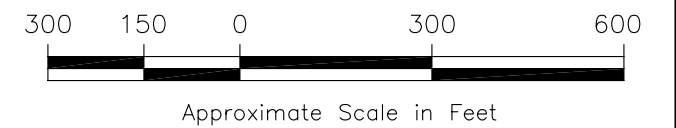


AREA OF
REGRADED SOIL

APPROXIMATE
FILL BOUNDARY

LEGEND

-  WELL LOCATIONS
- 322 ——— GROUNDWATER CONTOUR
- 322 ——— INFERRED GROUNDWATER CONTOUR
- 321.32 GROUNDWATER ELEVATION
(ELEVATIONS MEASURED ON
JUNE 29, 2000)
-  GROUNDWATER FLOW DIRECTION
- NA ELEVATION NOT AVAILABLE
-  STAFF GAUGE
- * STAFF GAUGE SURVEYED IN JULY,
2000. ELEVATION OF WATER LEVEL IN
POND.
- AREA OF REGRADED SOIL
- SITE BOUNDARY
- - - APPROXIMATE FILL BOUNDARY



MAP SOURCE: MALCOLM PIRNIE, 1997

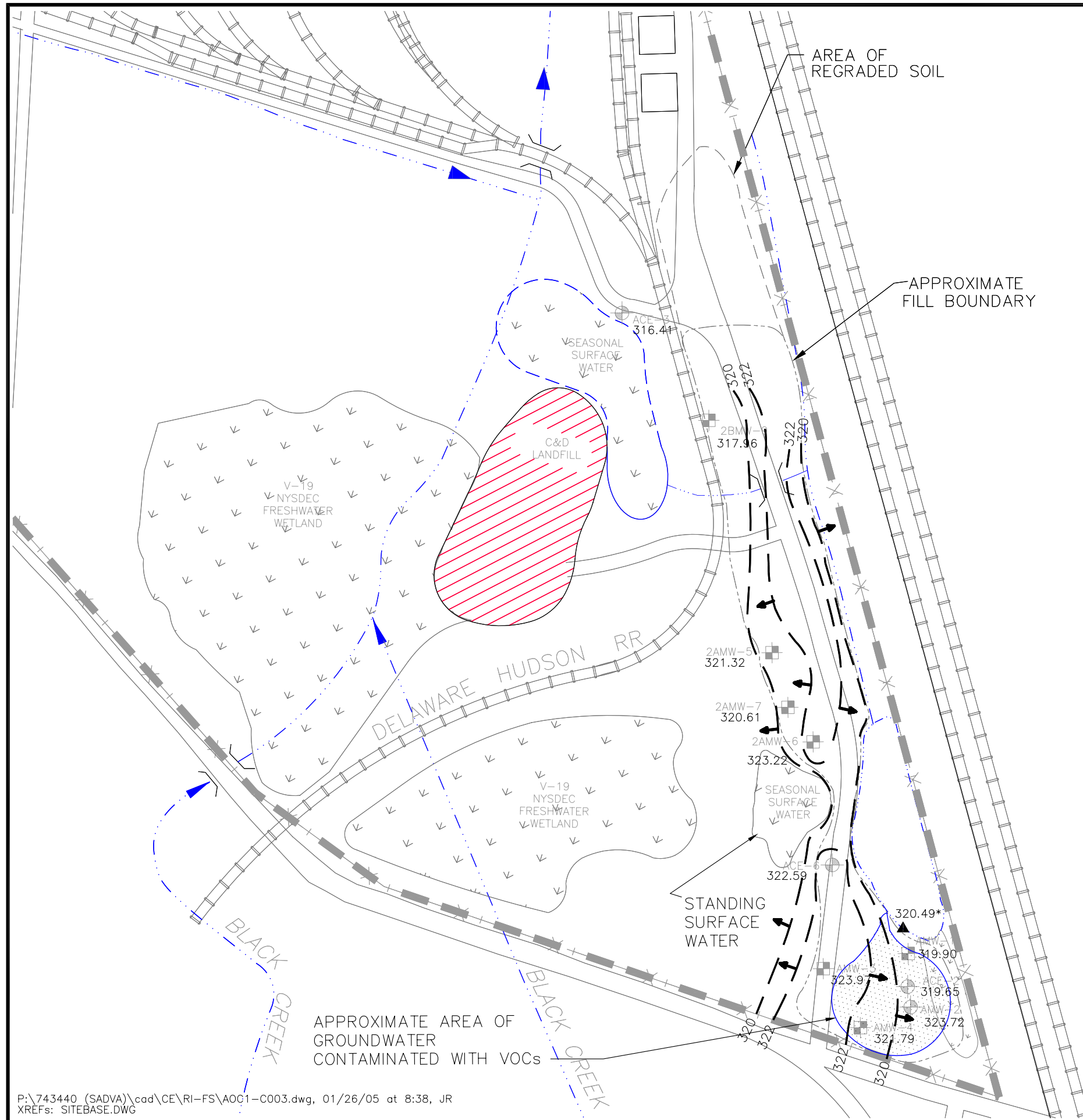
FIGURE 3.6A

FORMER SADVA
GUILDERLAND, NEW YORK

AOC 1
GROUNDWATER ELEVATIONS
JUNE 29, 2000

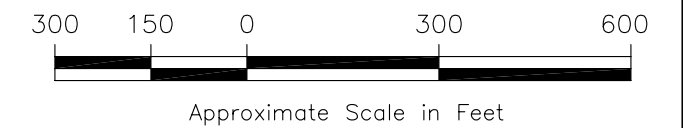
PARSONS

290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, N.Y. 13088, PHONE: 315-451-9560



LEGEND

- WELL LOCATIONS
- 322 GROUNDWATER CONTOUR
- 322 INFERRED GROUNDWATER CONTOUR
- 321.32 GROUNDWATER ELEVATION (ELEVATIONS MEASURED ON JUNE 29, 2000)
- GROUNDWATER FLOW DIRECTION
- NA ELEVATION NOT AVAILABLE
- STAFF GAUGE
- * STAFF GAUGE SURVEYED IN JULY, 2000. ELEVATION OF WATER LEVEL IN POND.
- AREA OF REGRADED SOIL
- SITE BOUNDARY
- APPROXIMATE FILL BOUNDARY



MAP SOURCE: MALCOLM PIRNIE, 1997

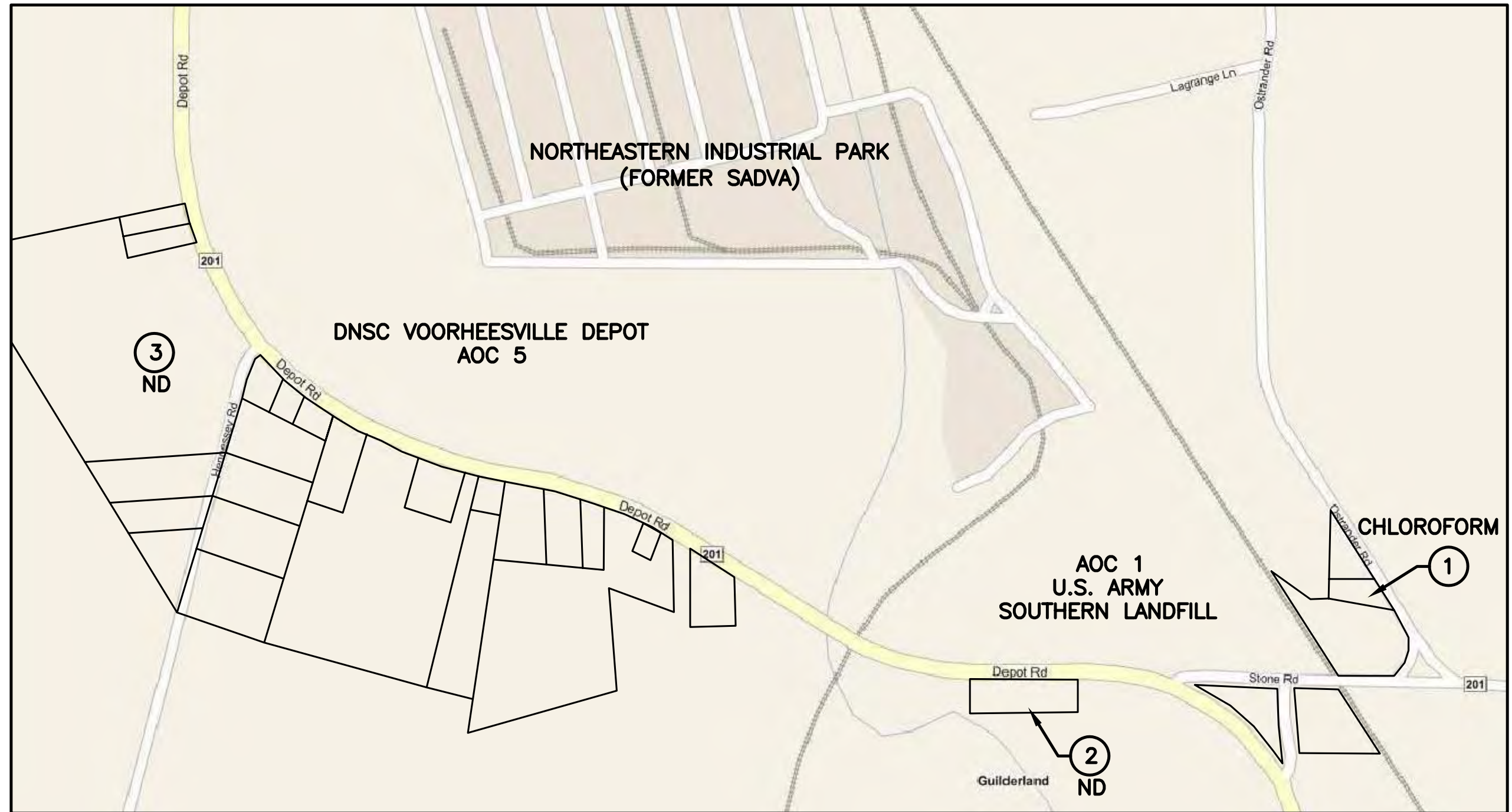
FIGURE 3.6B

FORMER SADVA
GUILDERLAND, NEW YORK

AOC 1
GROUNDWATER ELEVATIONS
NOVEMBER 30, 2000

PARSONS

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1

RESIDENTIAL WELL LOCATION

ND

NO CONCENTRATIONS DETECTED ABOVE
DETECTION LIMITS

CHLOROFORM

CONCENTRATION DETECTED AT $2\mu\text{g/L}$

DATA SOURCE:
ALBANY COUNTY HEALTH DEPARTMENT

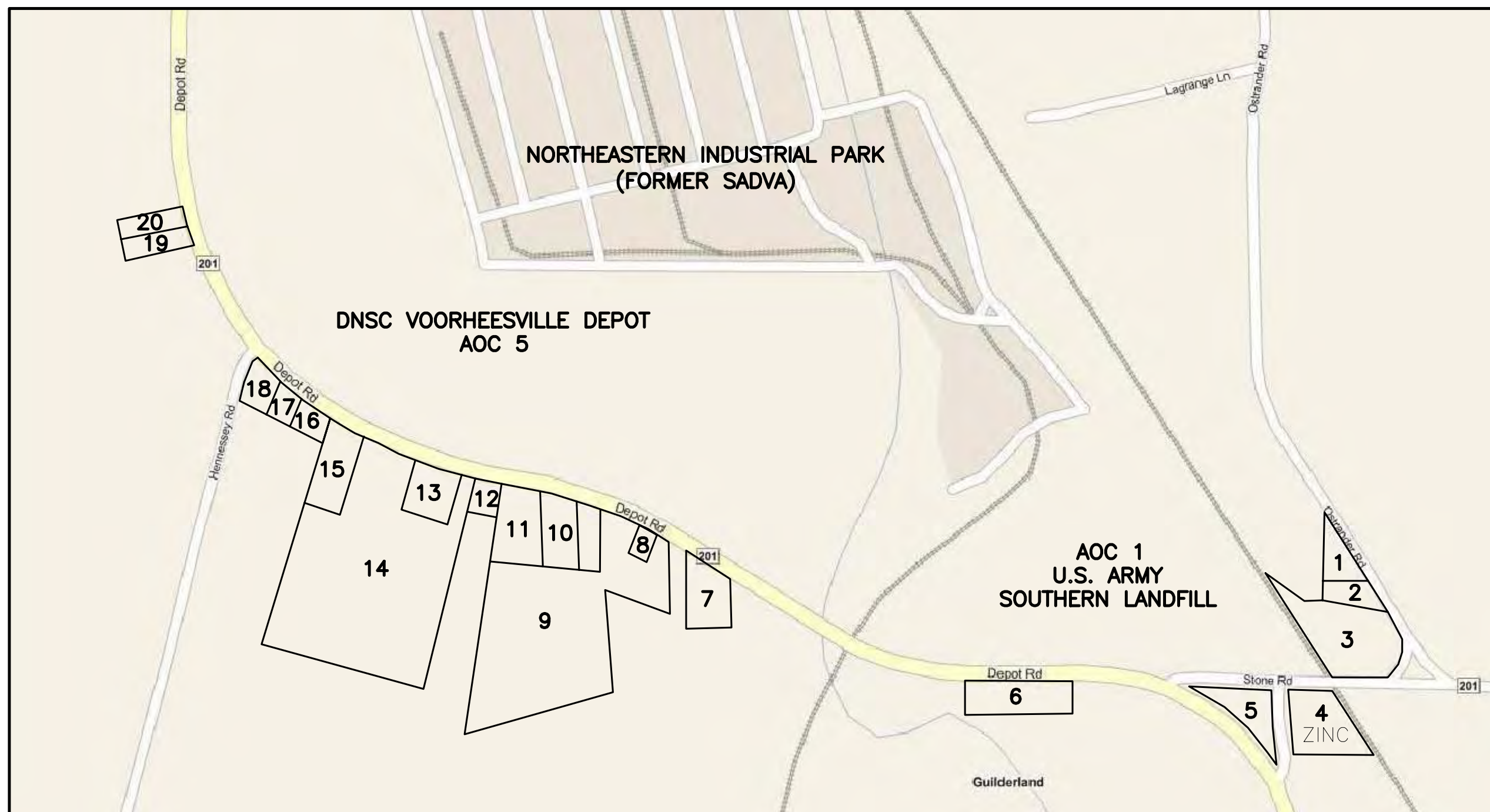
0 1000 FT
APPROXIMATE SCALE

FIGURE 3.7B

FORMER SADVA
GUILDERLAND, NEW YORK
**RESIDENTIAL WELL
SAMPLING RESULTS (1990)**

PARSON

290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, N.Y. 13088, PHONE: 315-451-9560



0 1000 FT
APPROXIMATE SCALE

6 RESIDENTIAL WELL LOCATION
ZINC CONCENTRATION EXCEEDS SCREENING CRITERION

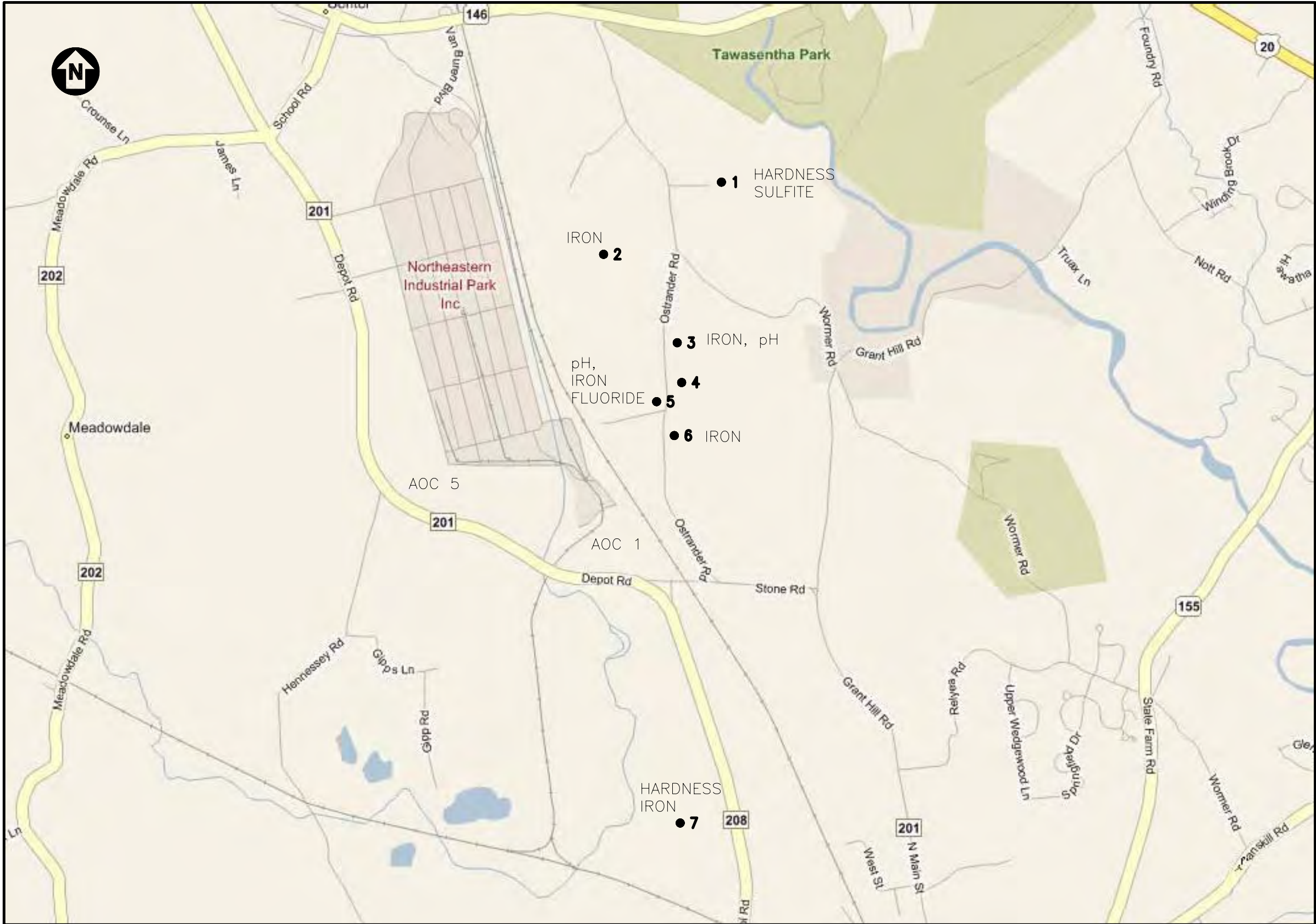
DATA SOURCE:
FINAL ARCHIVAL SEARCH REPORT (EAEST, 2003)

FIGURE 3.7C

FORMER SADVA
GUILDERLAND, NEW YORK
RESIDENTIAL WELL
SAMPLING RESULTS (1991)

PARSON

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● 1 RESIDENTIAL WELL
SAMPLE LOCATION

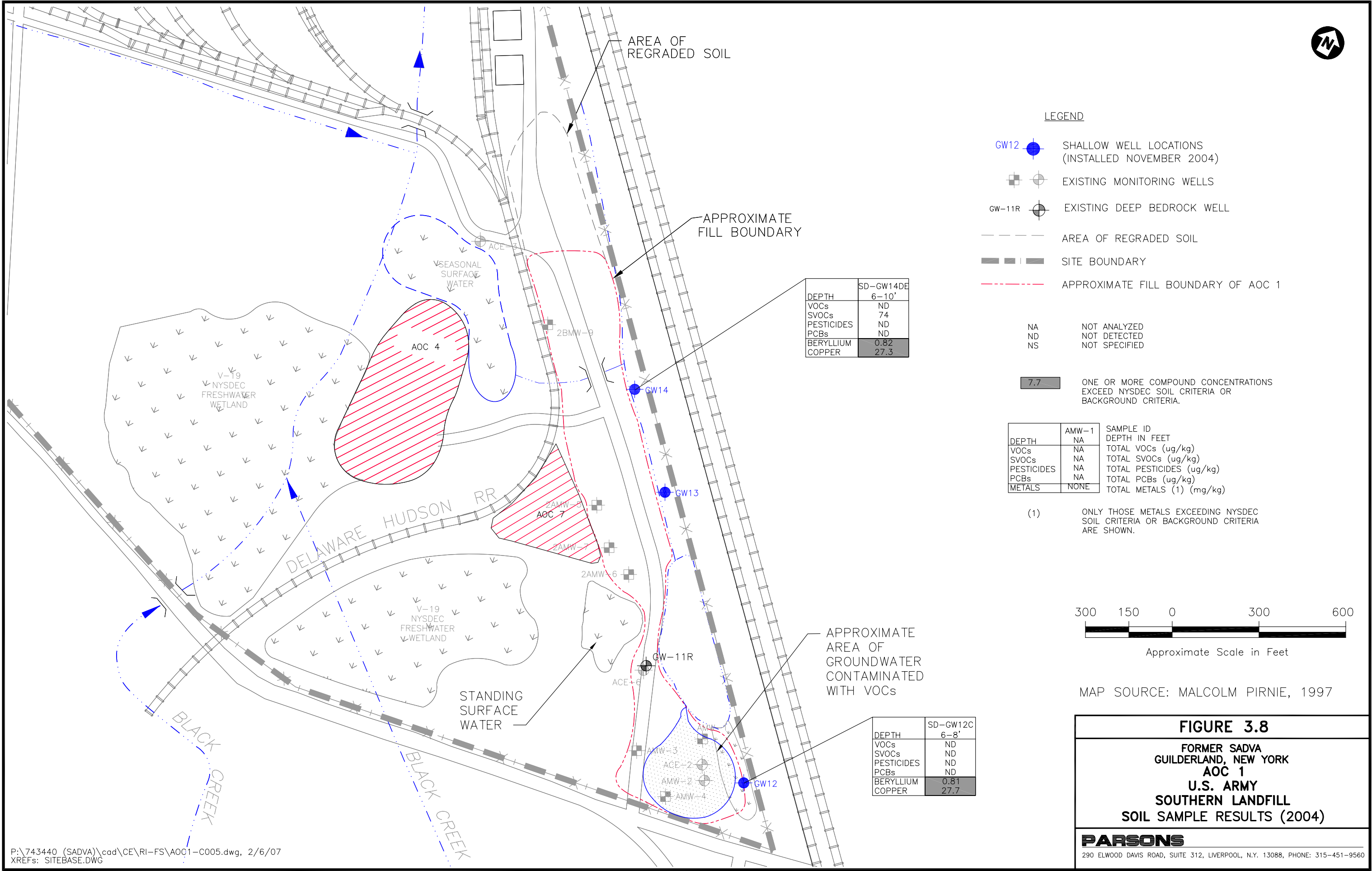
IRON ANALYTE CONCENTRATION THAT
EXCEEDS THE ACCEPTABLE
RANGE REFERENCED ON THE
ANALYTICAL REPORT PROVIDED
BY ACHD

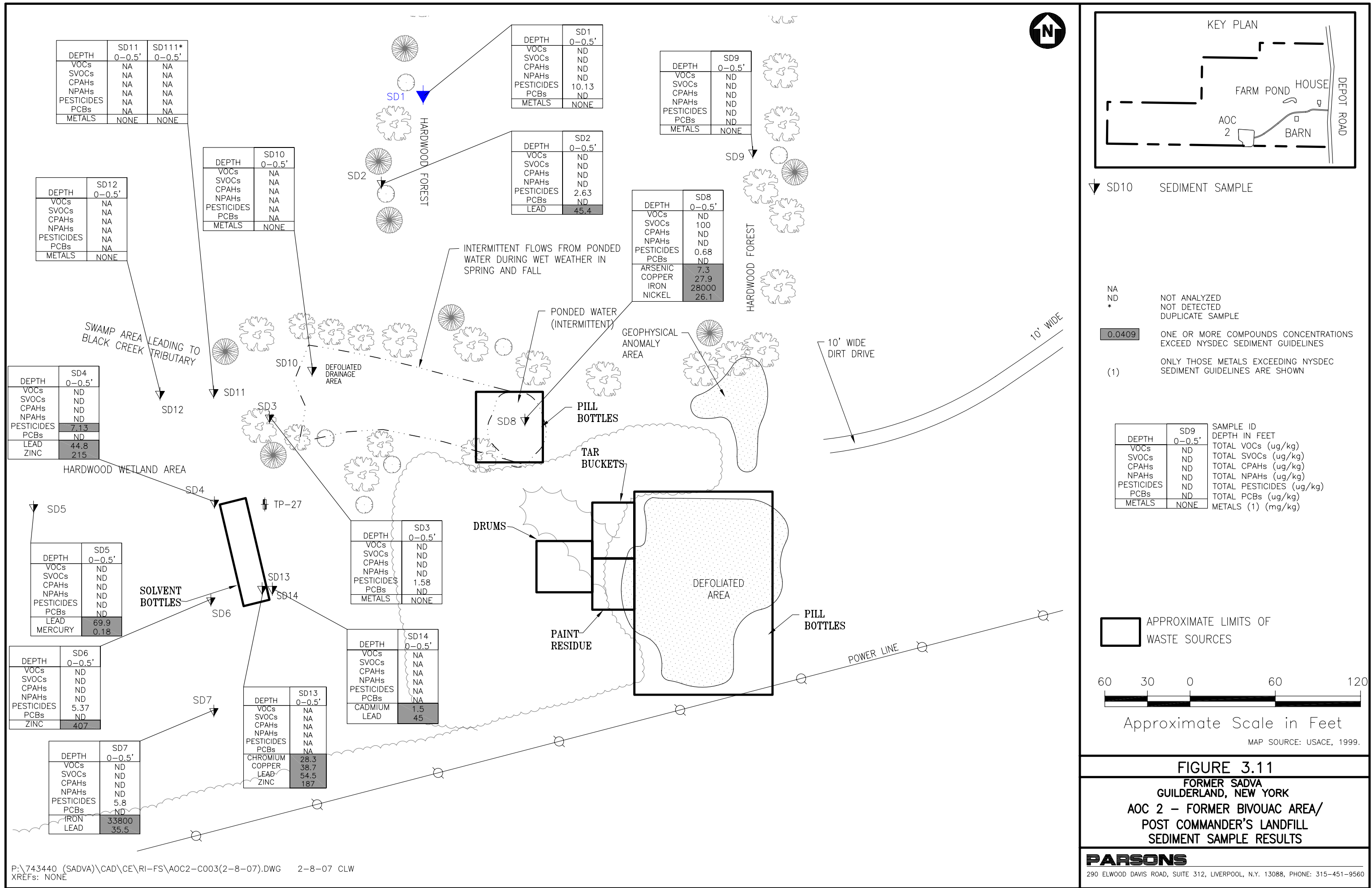
0 1000 FT
APPROXIMATE SCALE

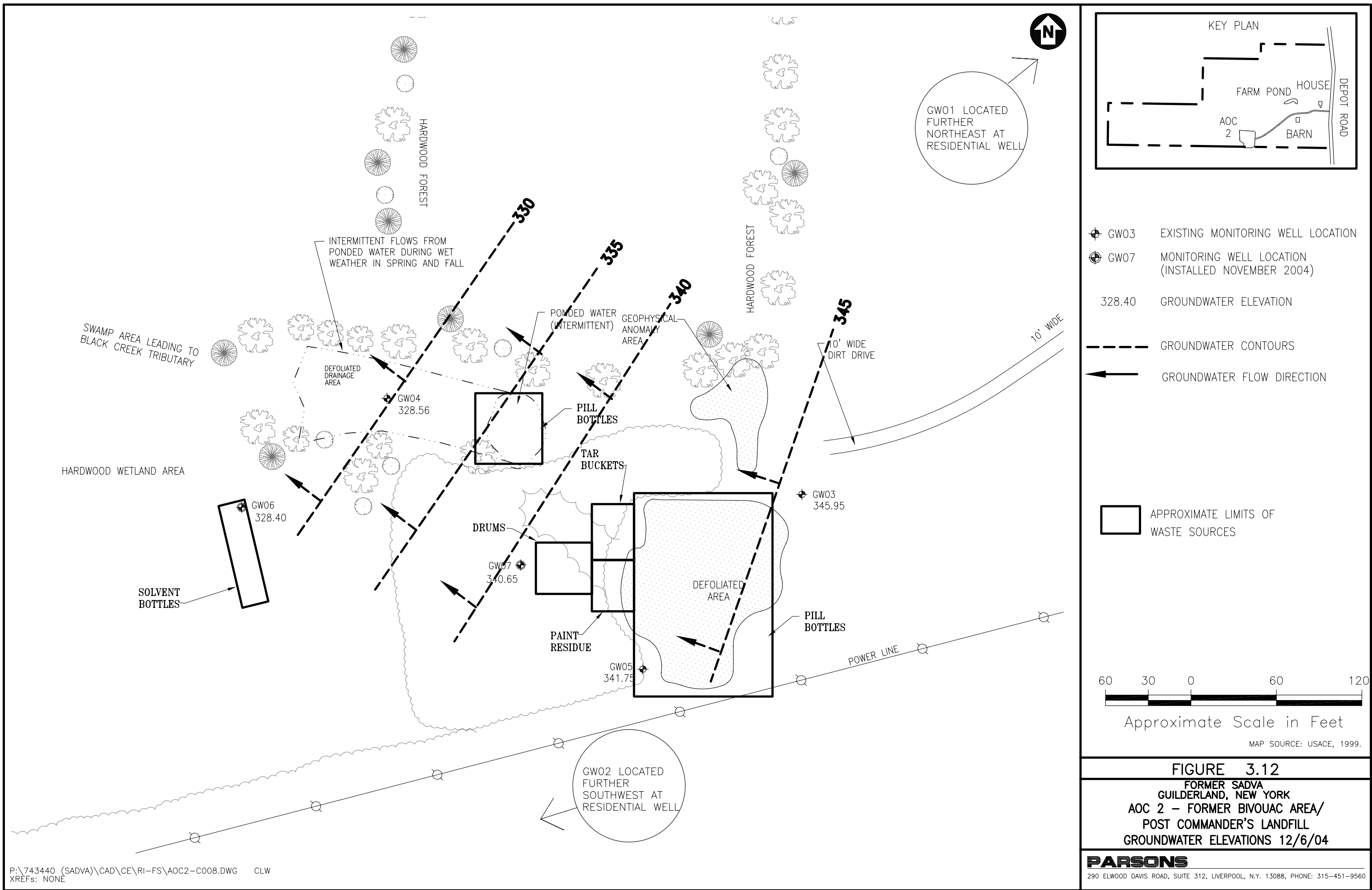
FIGURE 3.7D

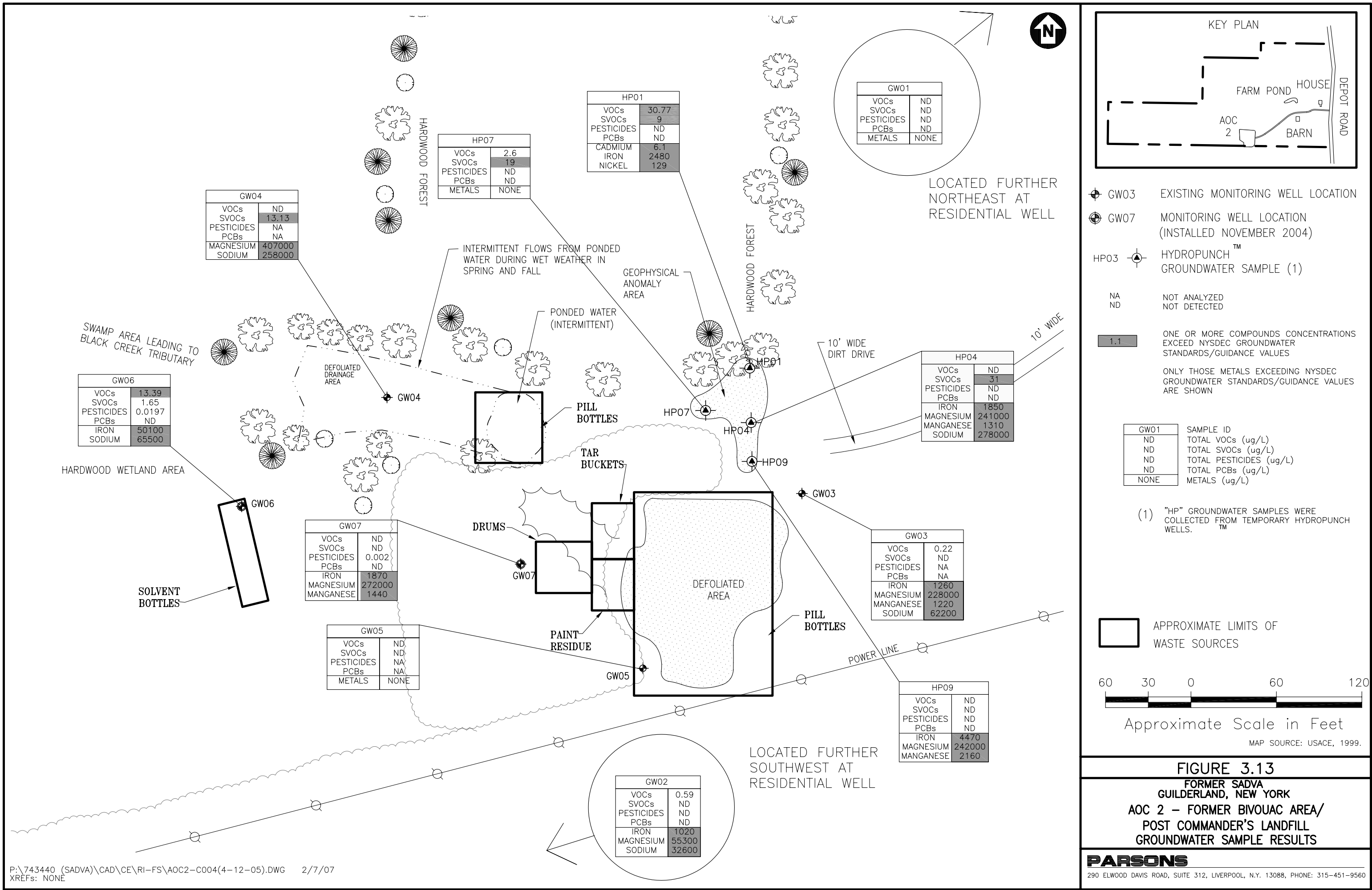
FORMER SADVA
GUILDERLAND, NEW YORK
**RESIDENTIAL WELL SAMPLING RESULTS
(1991 – 2004)**

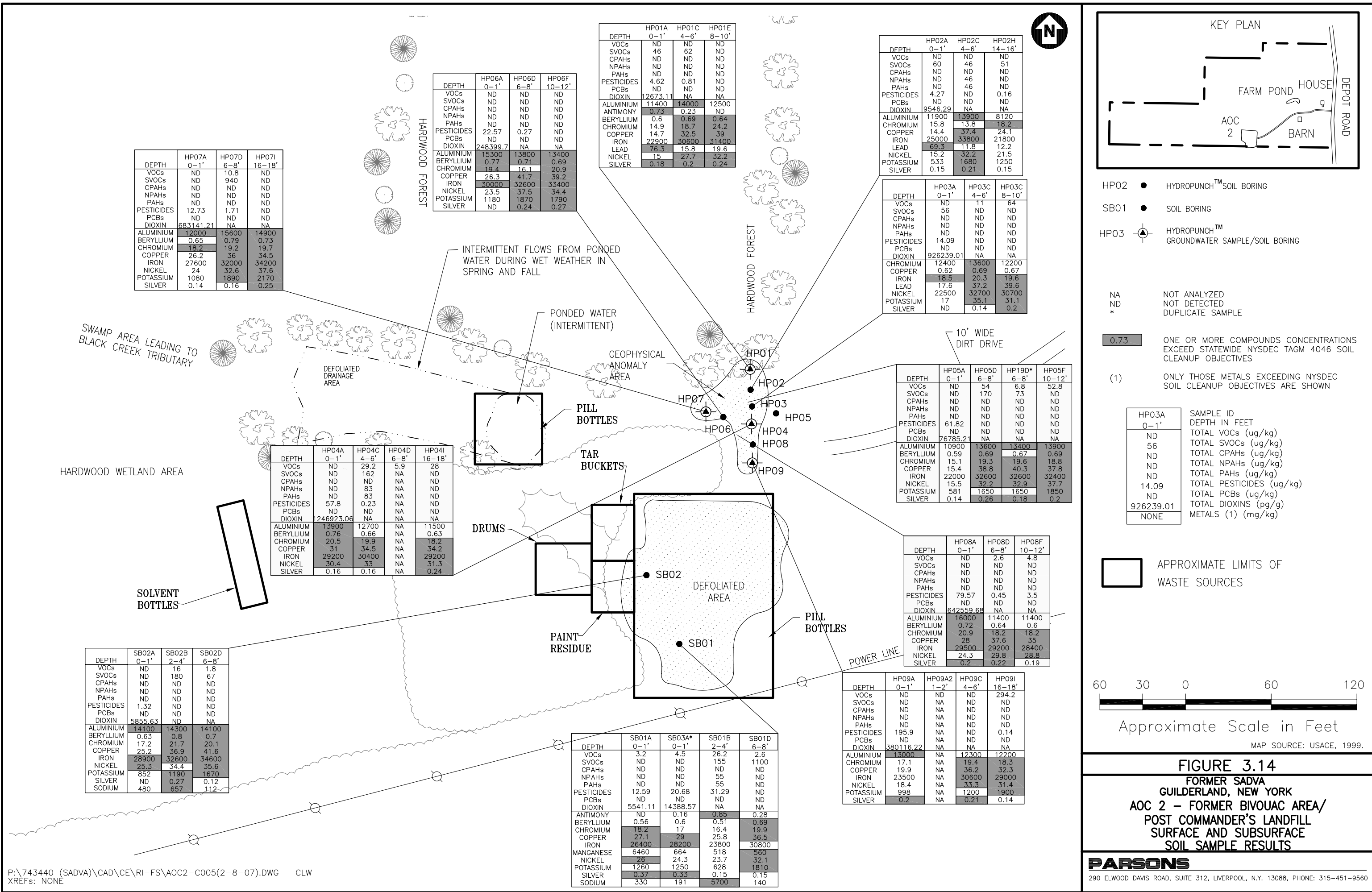
PARSON
290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, N.Y. 13088, PHONE: 315-451-9560

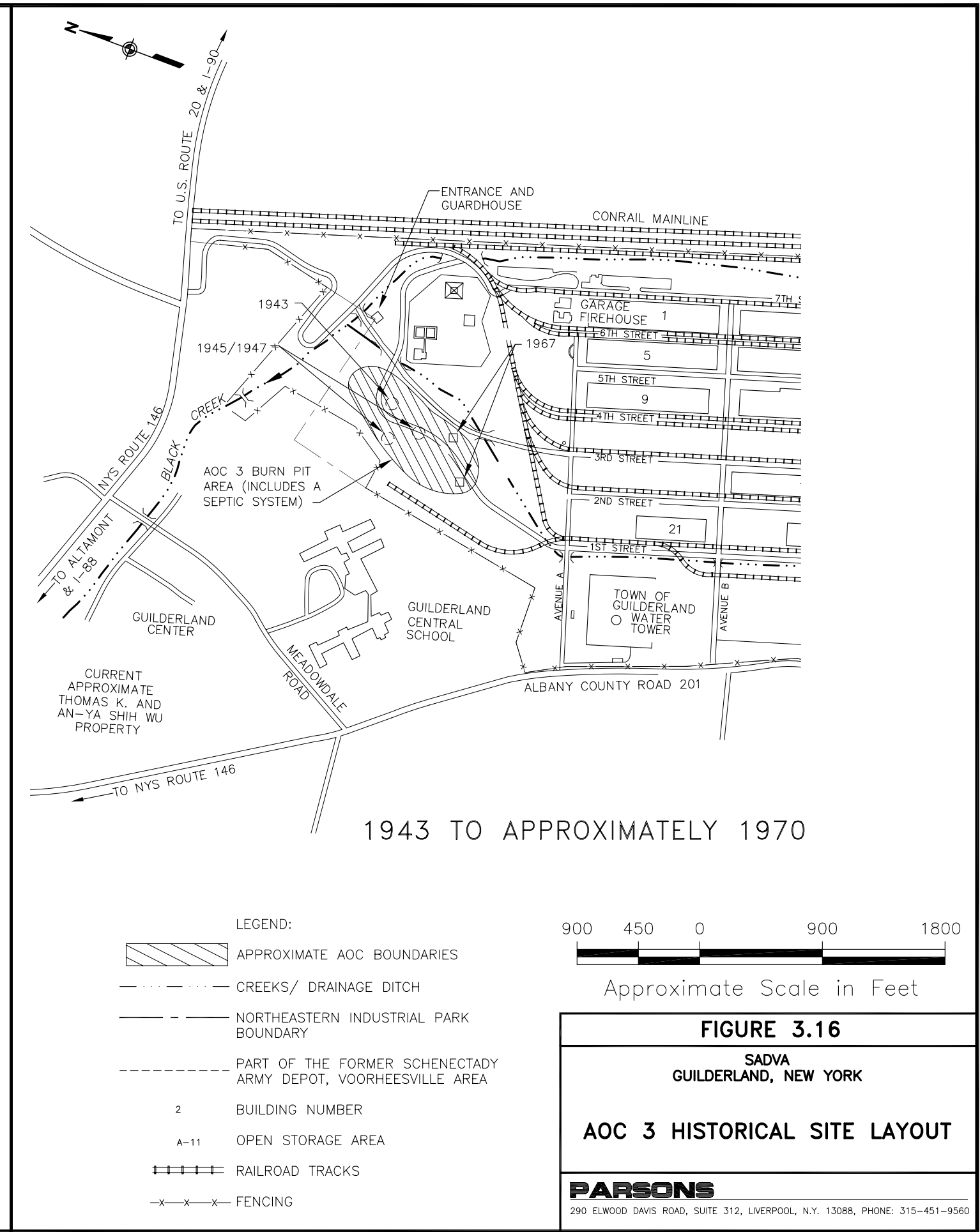
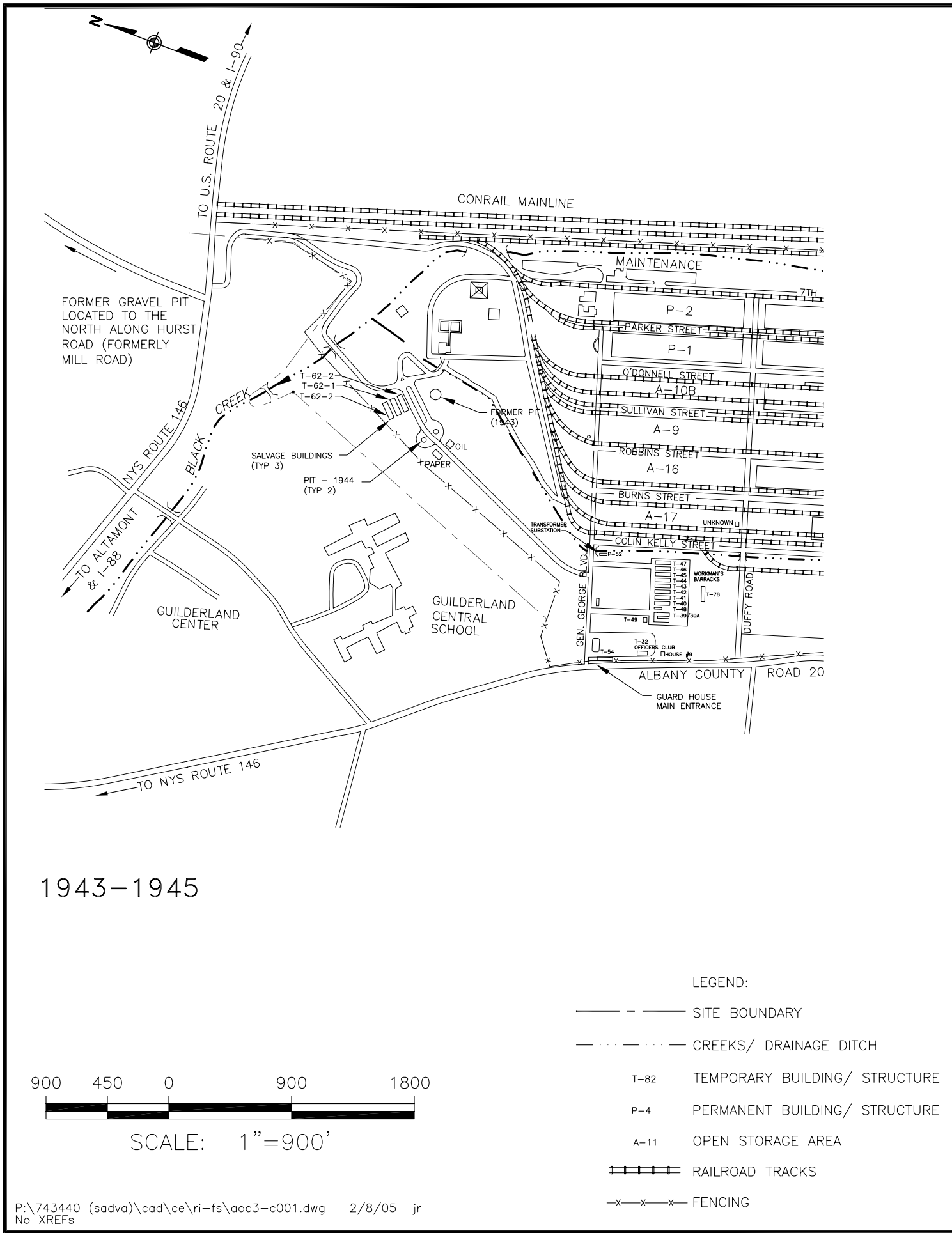


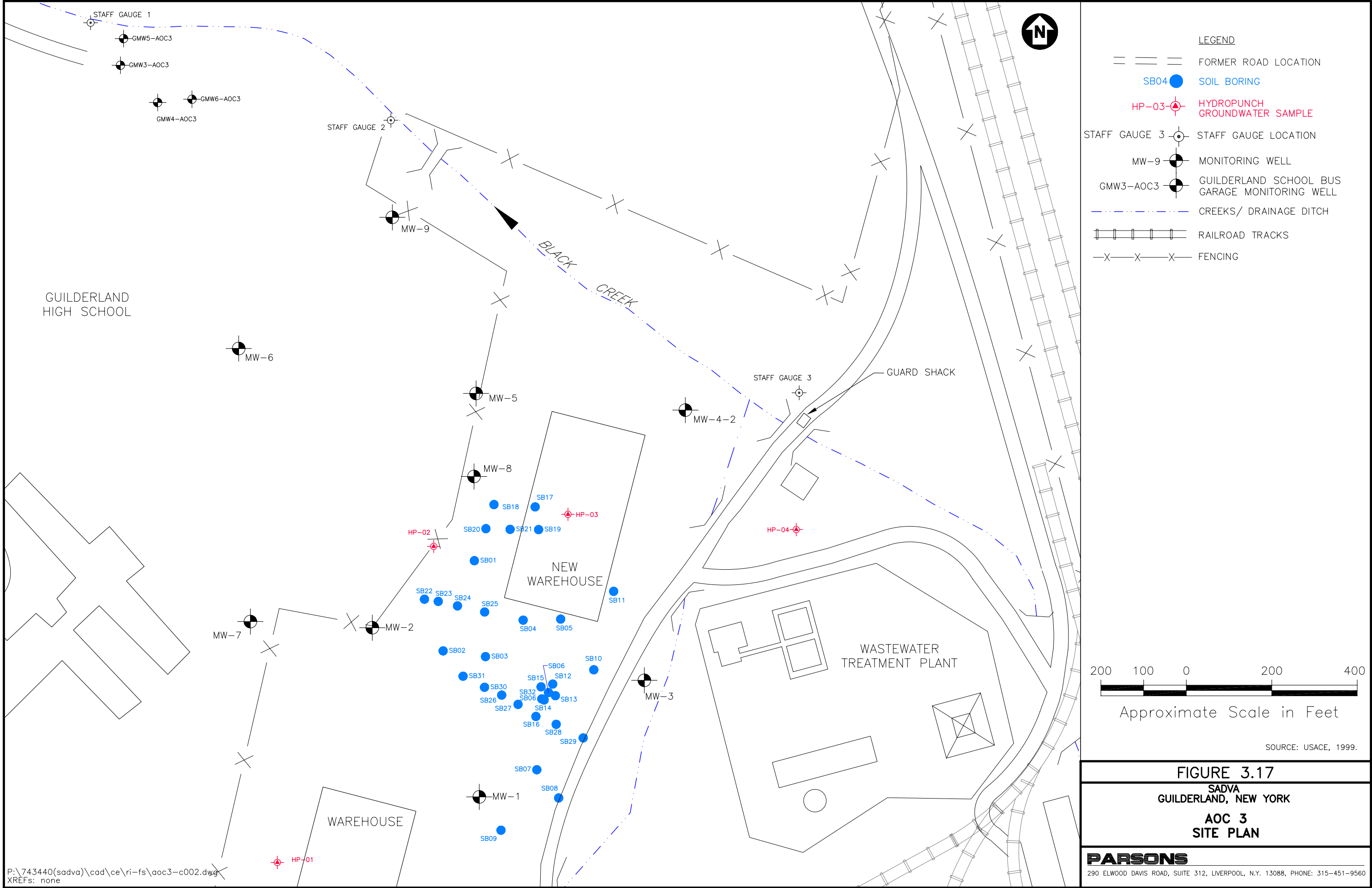


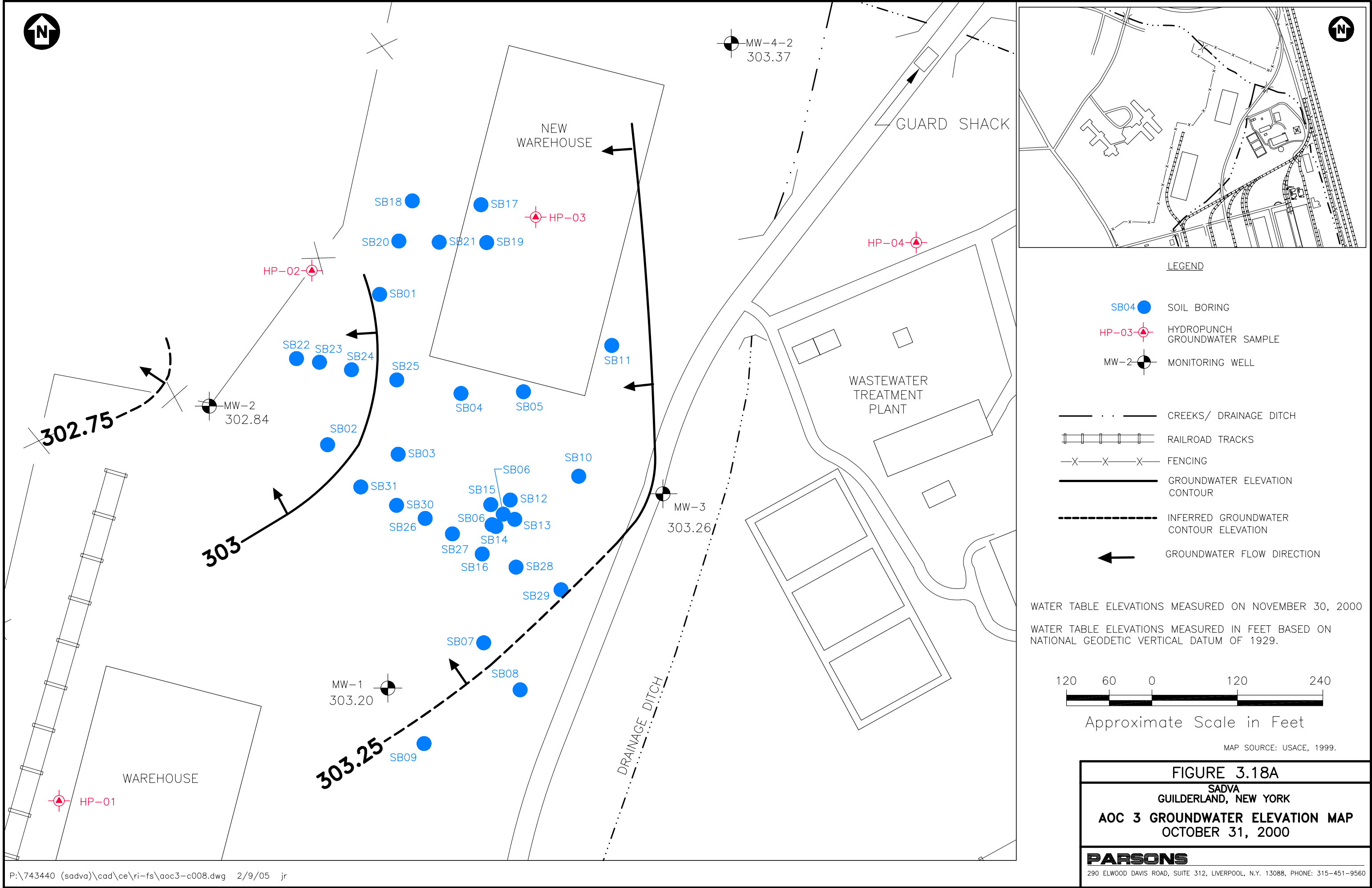


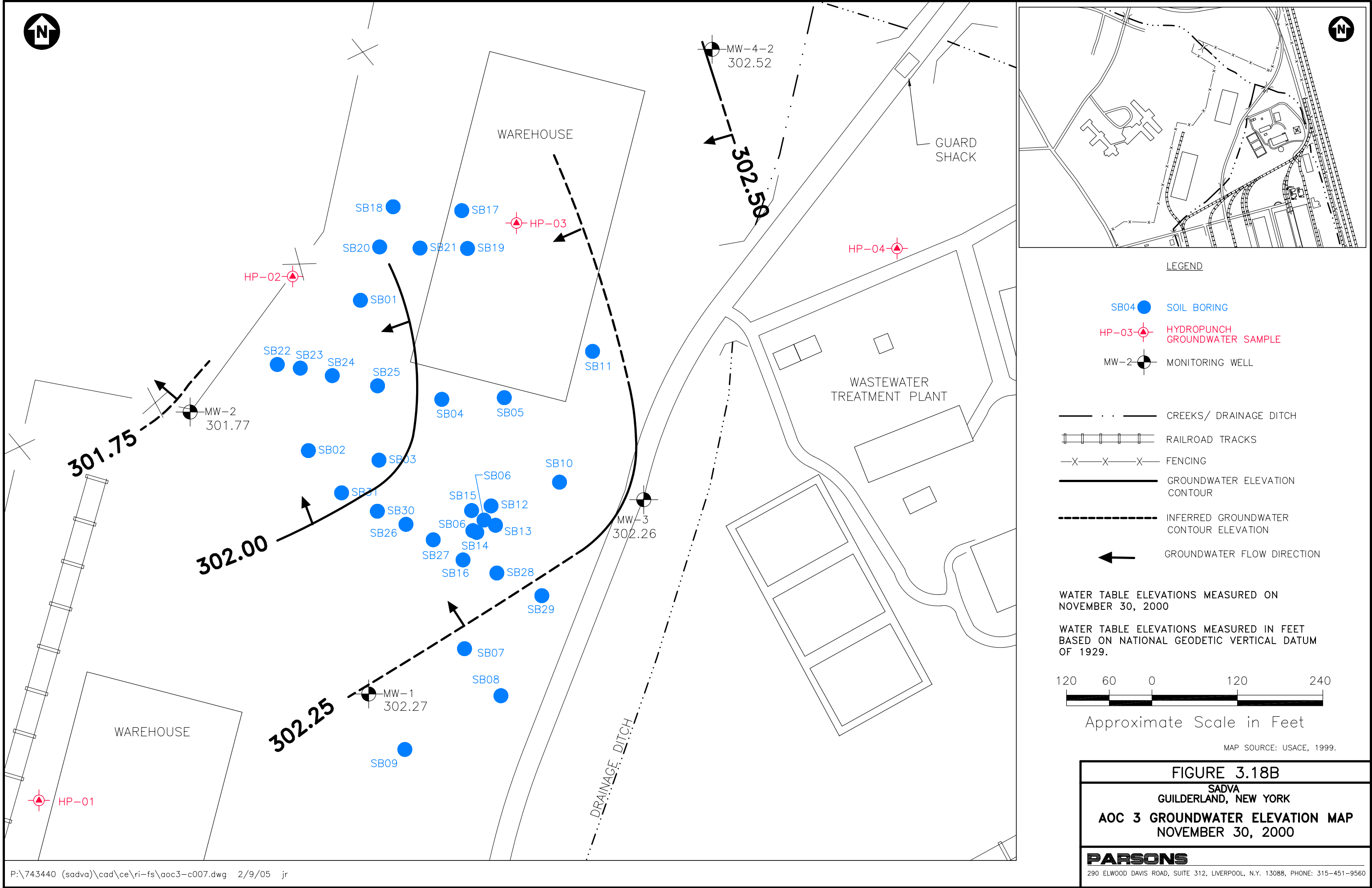


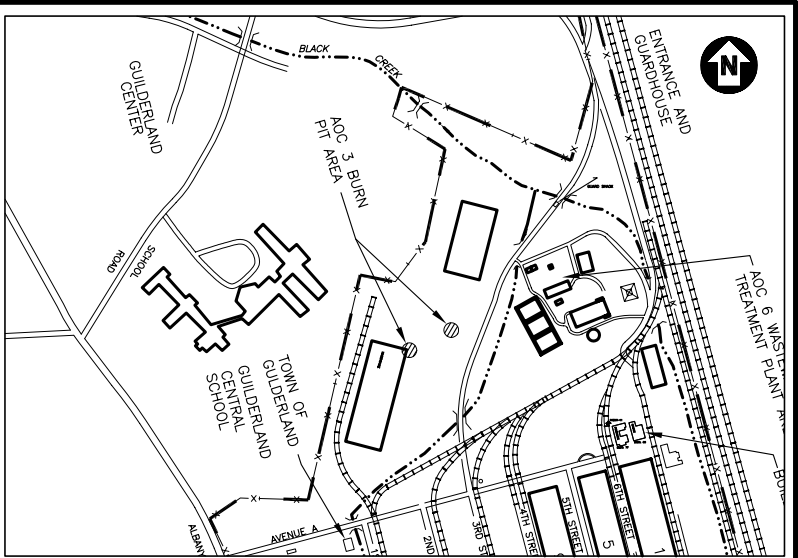
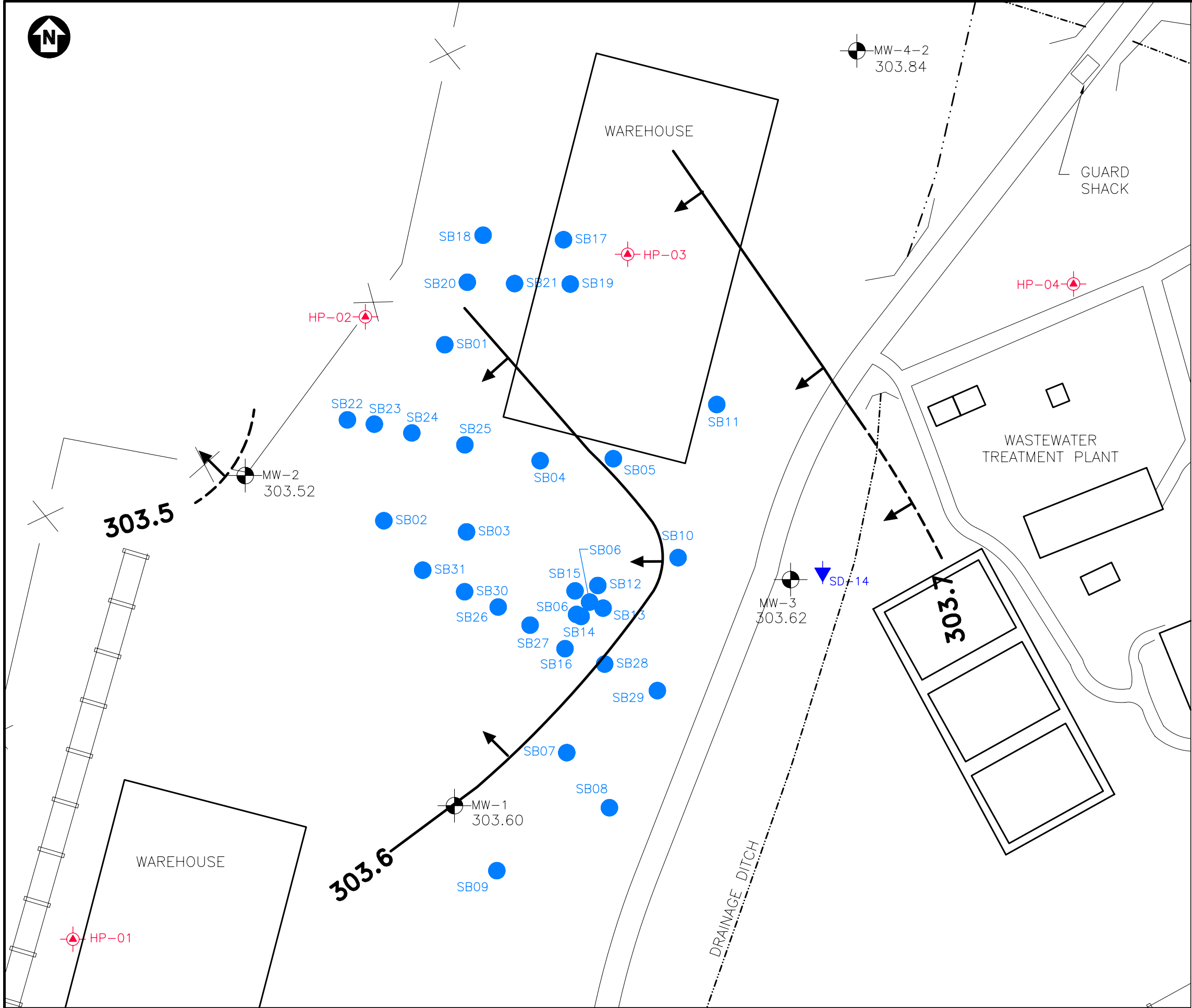












LEGEND

- SB04 SOIL BORING
- HP-03 HYDROPUNCH GROUNDWATER SAMPLE
- MW-2 MONITORING WELL
- CREEKS/ DRAINAGE DITCH
- RAILROAD TRACKS
- FENCING
- GROUNDWATER ELEVATION CONTOUR
- INFERRED GROUNDWATER CONTOUR ELEVATION
- GROUNDWATER FLOW DIRECTION

WATER TABLE ELEVATIONS MEASURED ON JANUARY 10, 2001
WATER TABLE ELEVATIONS MEASURED IN FEET BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.



Approximate Scale in Feet

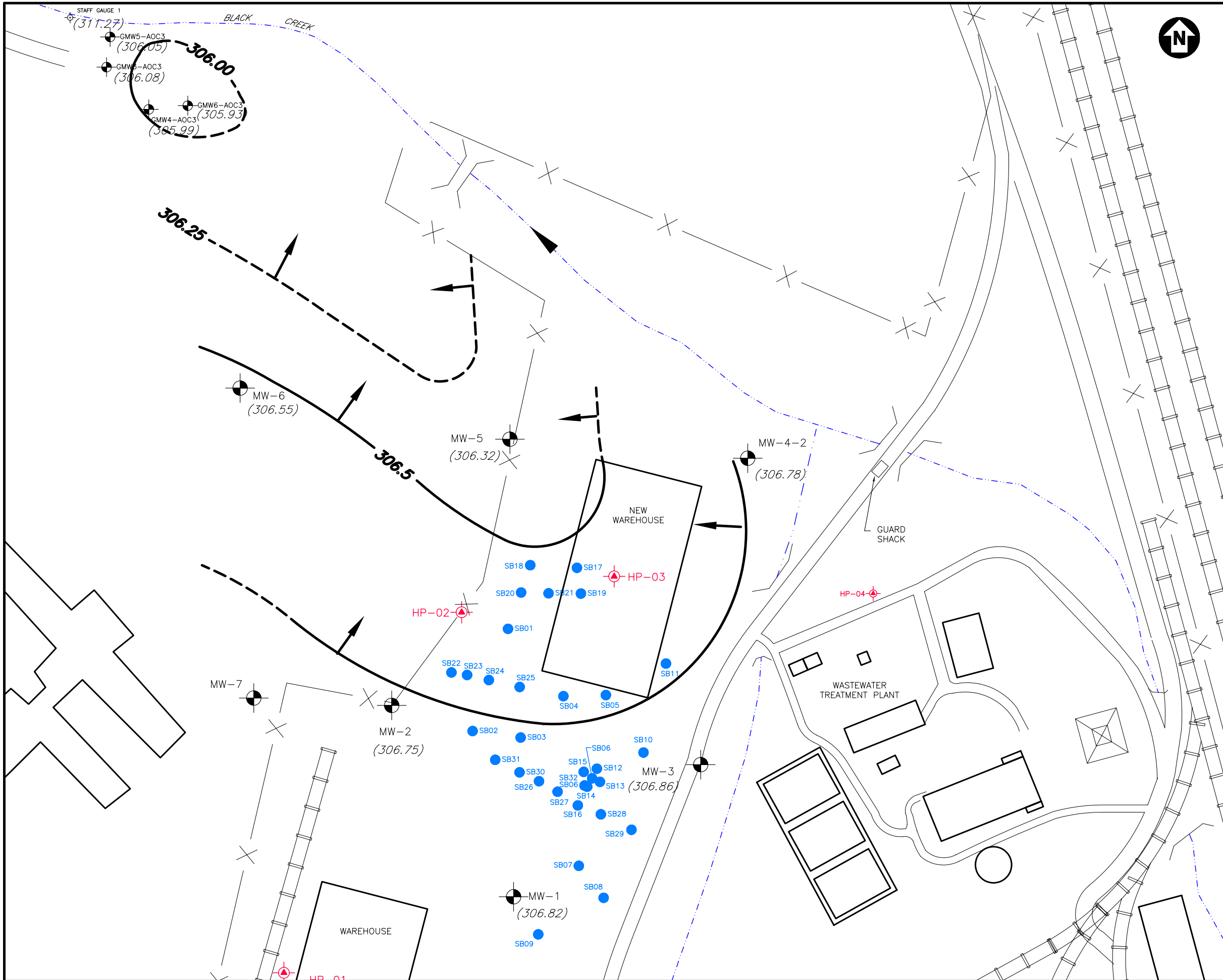
MAP SOURCE: USACE, 1999.

FIGURE 3.18C

SADVA
GUILDERLAND, NEW YORK
AOC 3 GROUNDWATER ELEVATION MAP
JANUARY 10, 2001

PARSONS

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LEGEND

- FORMER ROAD LOCATION
- SB04 SOIL BORING
- HP-03 HYDROPUNCH GROUNDWATER SAMPLE
- MW-2 MONITORING WELL
- GMW3-AOC3 EXISTING GUILDERLAND SCHOOL BUS GARAGE MONITORING WELL
- STAFF GAUGE
- CREEKS/ DRAINAGE DITCH
- RAILROAD TRACKS
- FENCING
- GROUNDWATER ELEVATION CONTOUR
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION

WATER TABLE ELEVATIONS MEASURED ON MAY 21, 2001.

WATER TABLE ELEVATIONS MEASURED IN FEET BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.



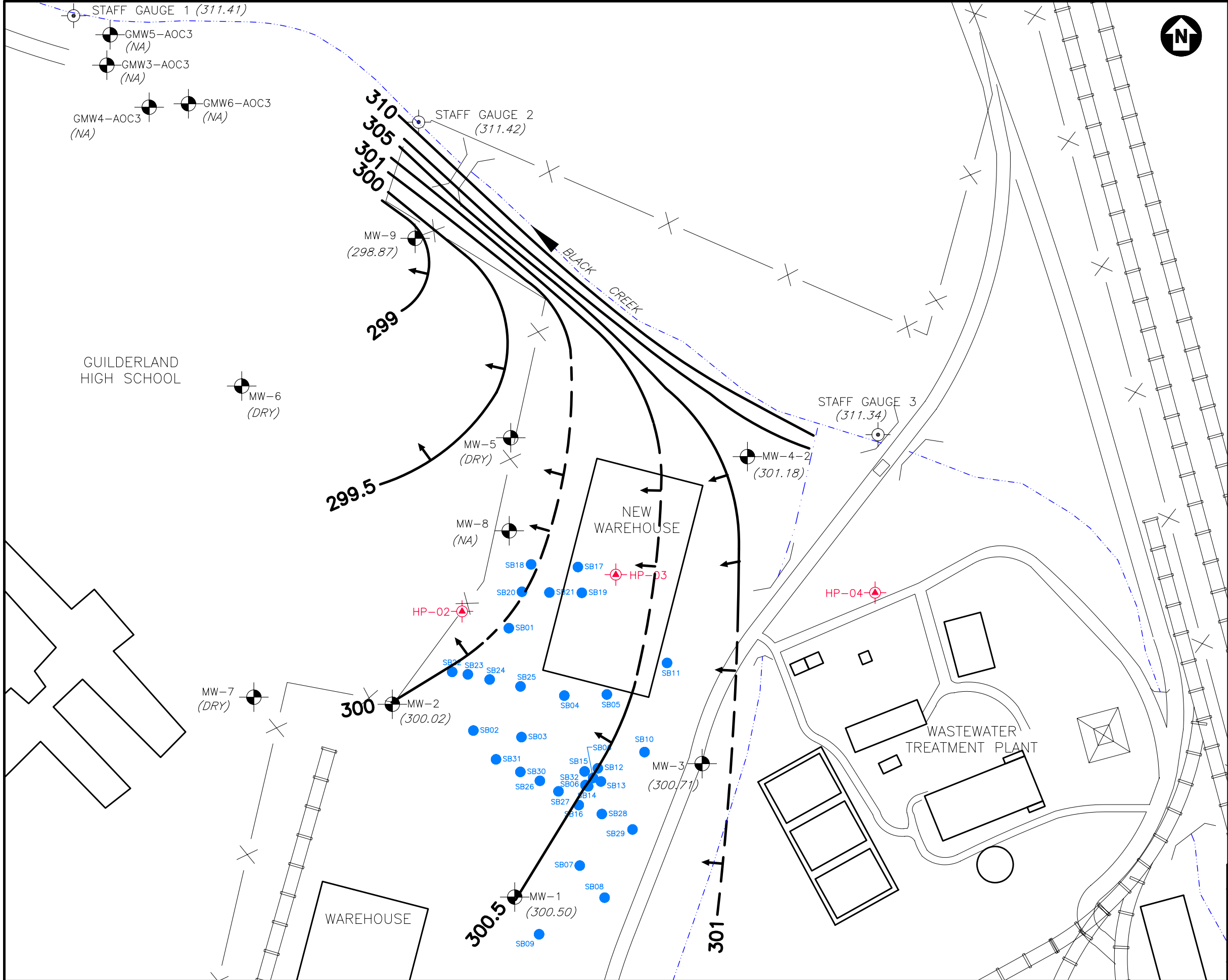
SOURCE: USACE, 1999.

FIGURE 3.18D

SADVA
 GUILDERLAND, NEW YORK
AOC 3 GROUNDWATER ELEVATION MAP
 MAY 21, 2001

PARSONS

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LEGEND

- FORMER ROAD LOCATION
- SB04 SOIL BORING
- HP-03 HYDROPUNCH GROUNDWATER SAMPLE
- MW-2 MONITORING WELL
- GMW3-AOC3 EXISTING GUILDERLAND SCHOOL BUS GARAGE MONITORING WELLS
- STAFF GAUGE
- CREEKS/ DRAINAGE DITCH
- RAILROAD TRACKS
- FENCING
- NA NOT AVAILABLE

WATER TABLE ELEVATIONS MEASURED ON NOVEMBER 7, 2001.

WATER TABLE ELEVATIONS MEASURED IN FEET BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.

200 100 0 200 400

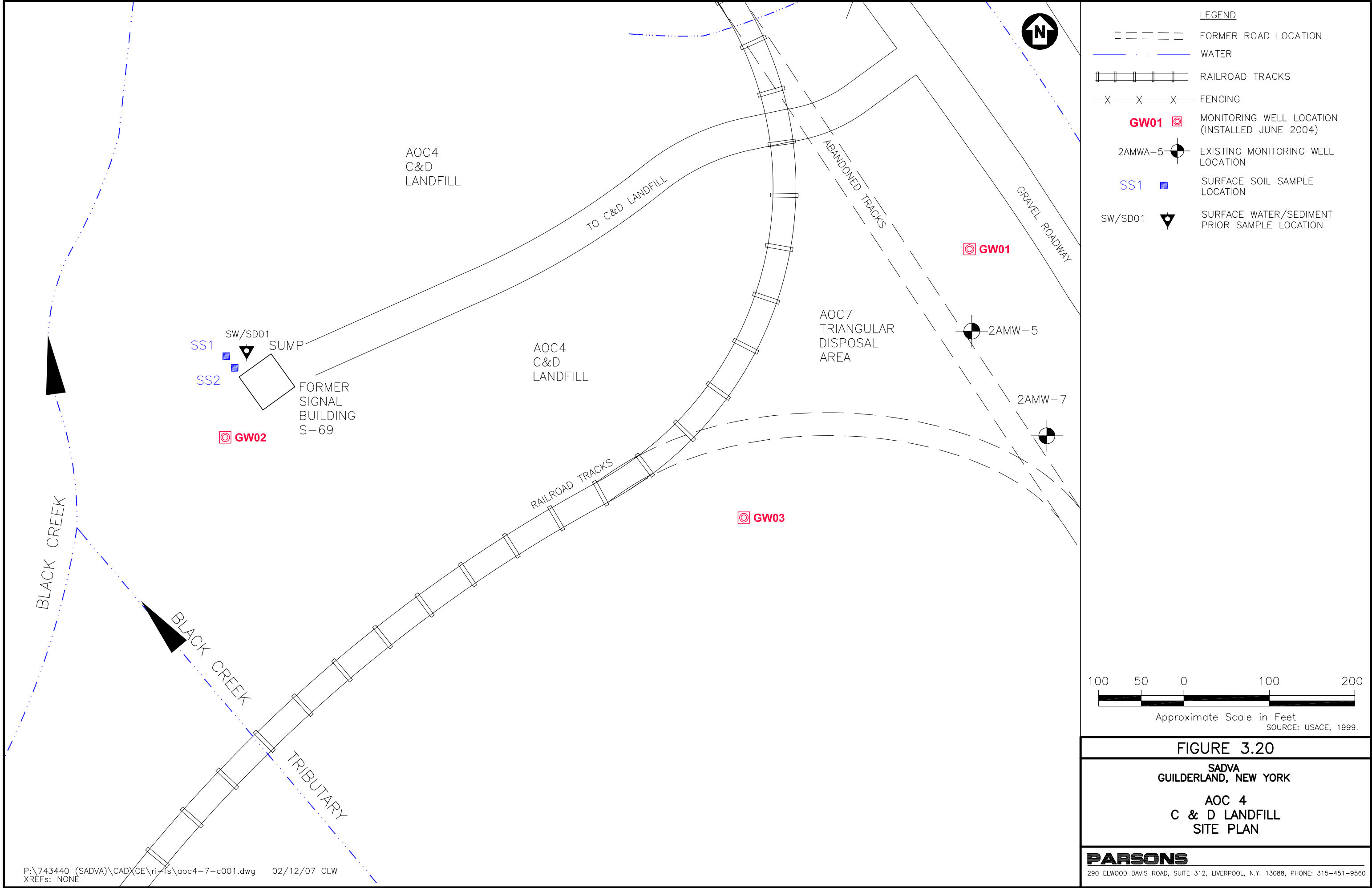
Approximate Scale in Feet

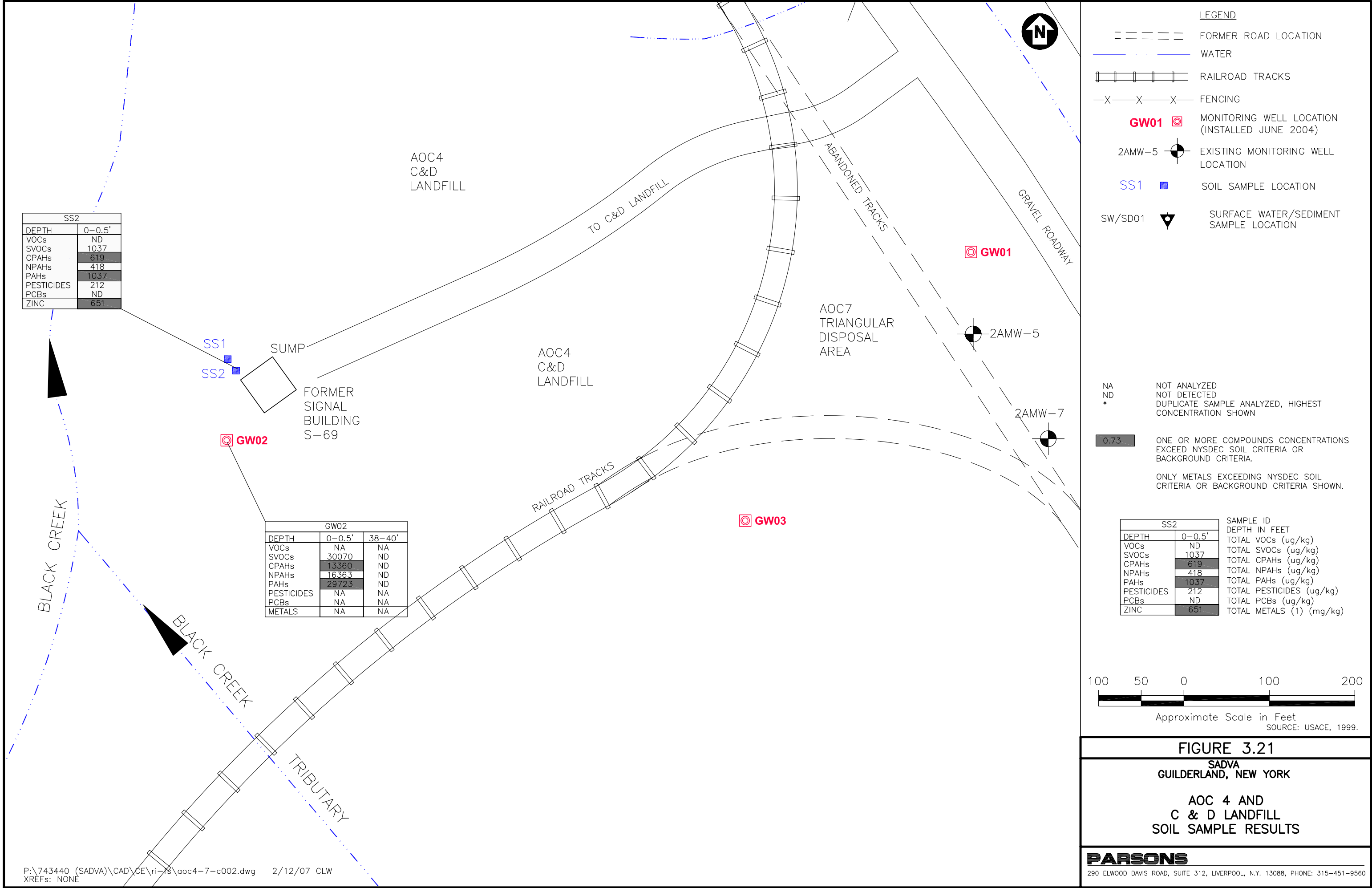
SOURCE: USACE, 1999.

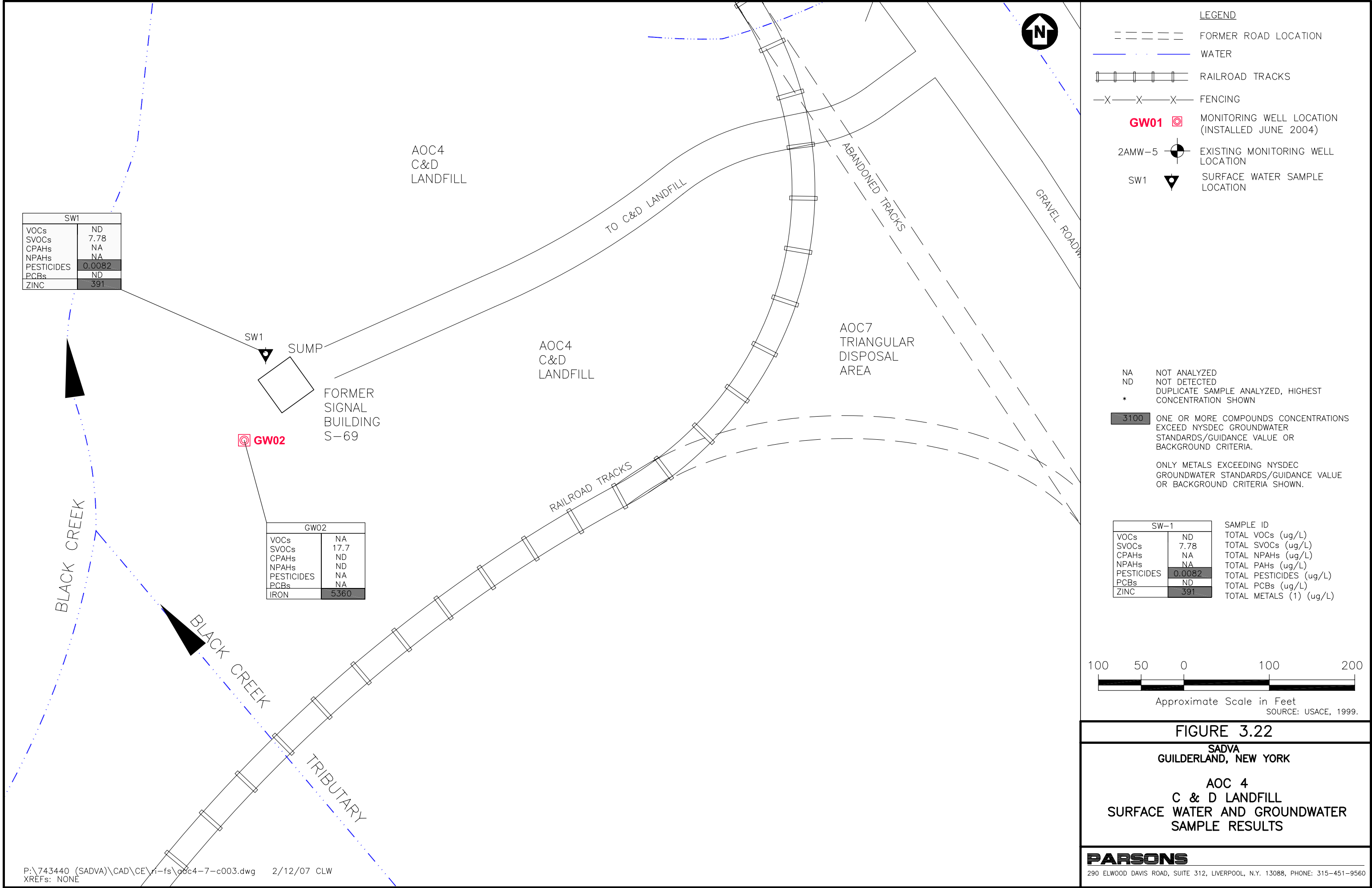
FIGURE 3.18E

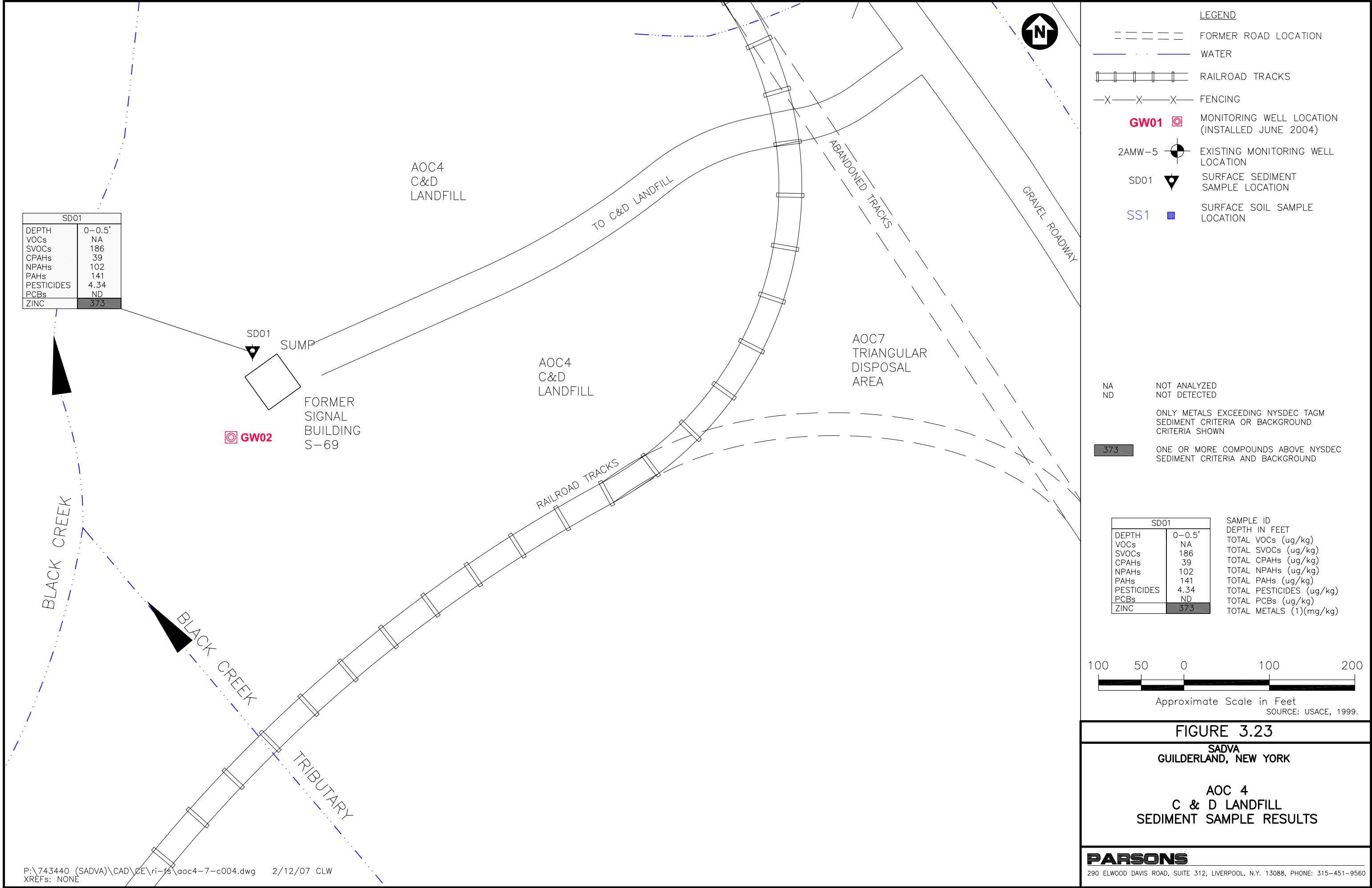
SADVA
GUILDERLAND, NEW YORK
AOC 3 GROUNDWATER ELEVATION MAP
NOVEMBER 7, 2001

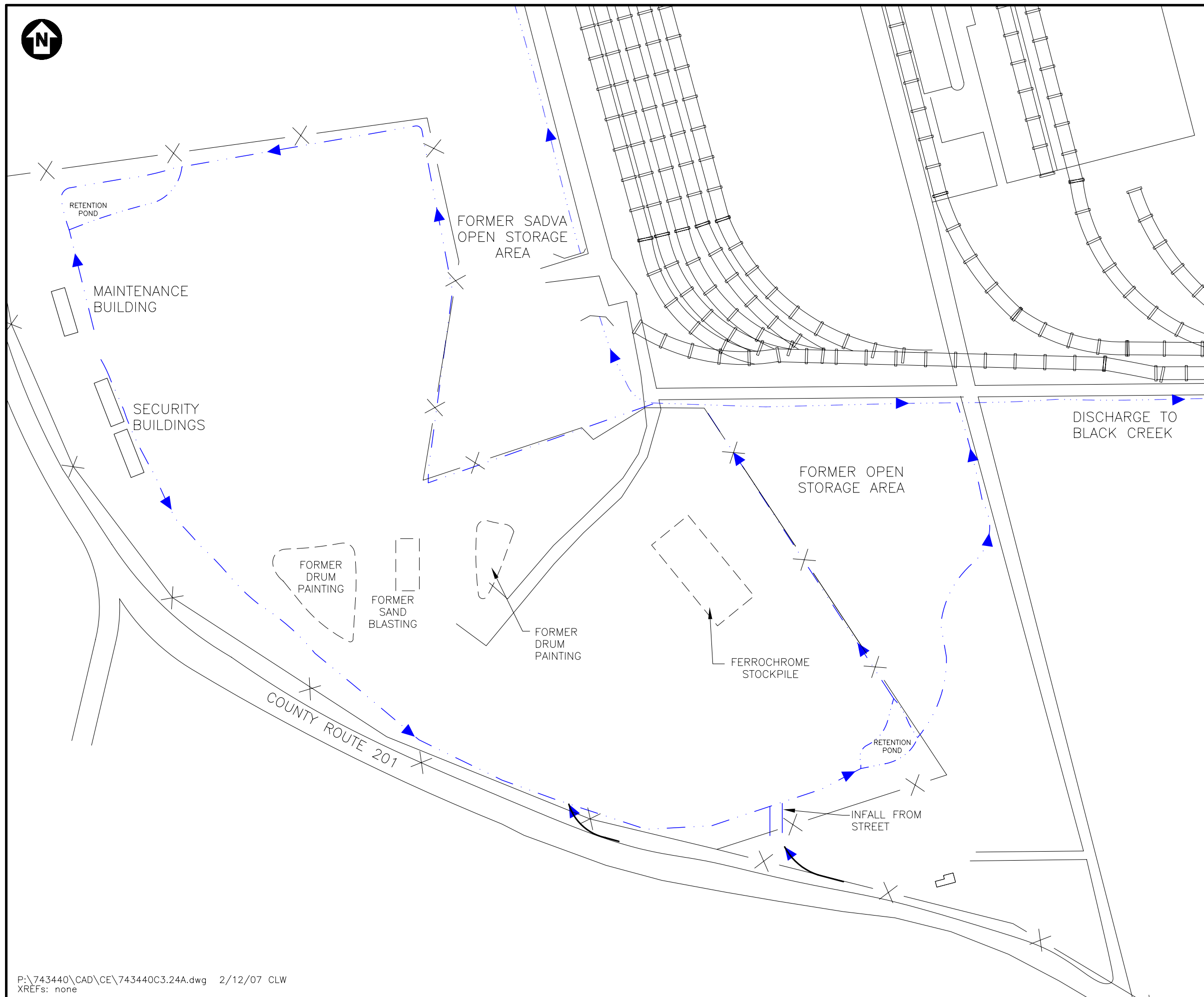
PARSONS
290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, N.Y. 13088, PHONE: 315-451-9560











LEGEND

- DRAINAGE DITCH
- SURFACE WATER FLOW PATH
- FENCE/PROPERTY BOUNDARY

NOTE:

THIS FIGURE PRESENTS SITE CONDITIONS EXISTING AT THE TIME OF THE RI SAMPLING EVENTS. IN LATE 2004, SEVERAL STORMWATER DETENTION BASINS WERE CONSTRUCTED AT VOORHEESVILLE DEPOT. THOSE BASINS ARE NOT REFLECTED ON THIS FIGURE.



Approximate Scale in Feet

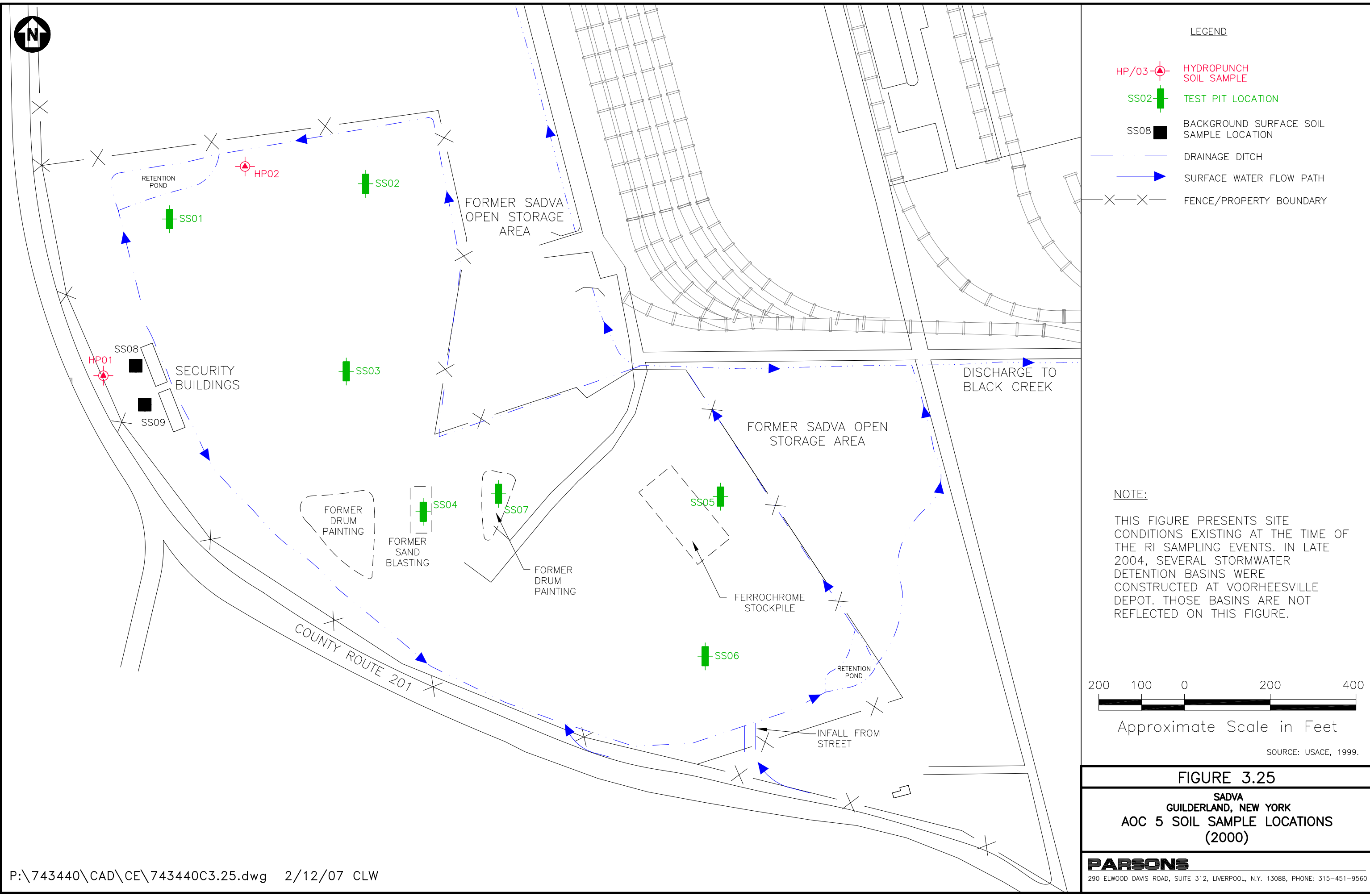
SOURCE: USACE, 1999.

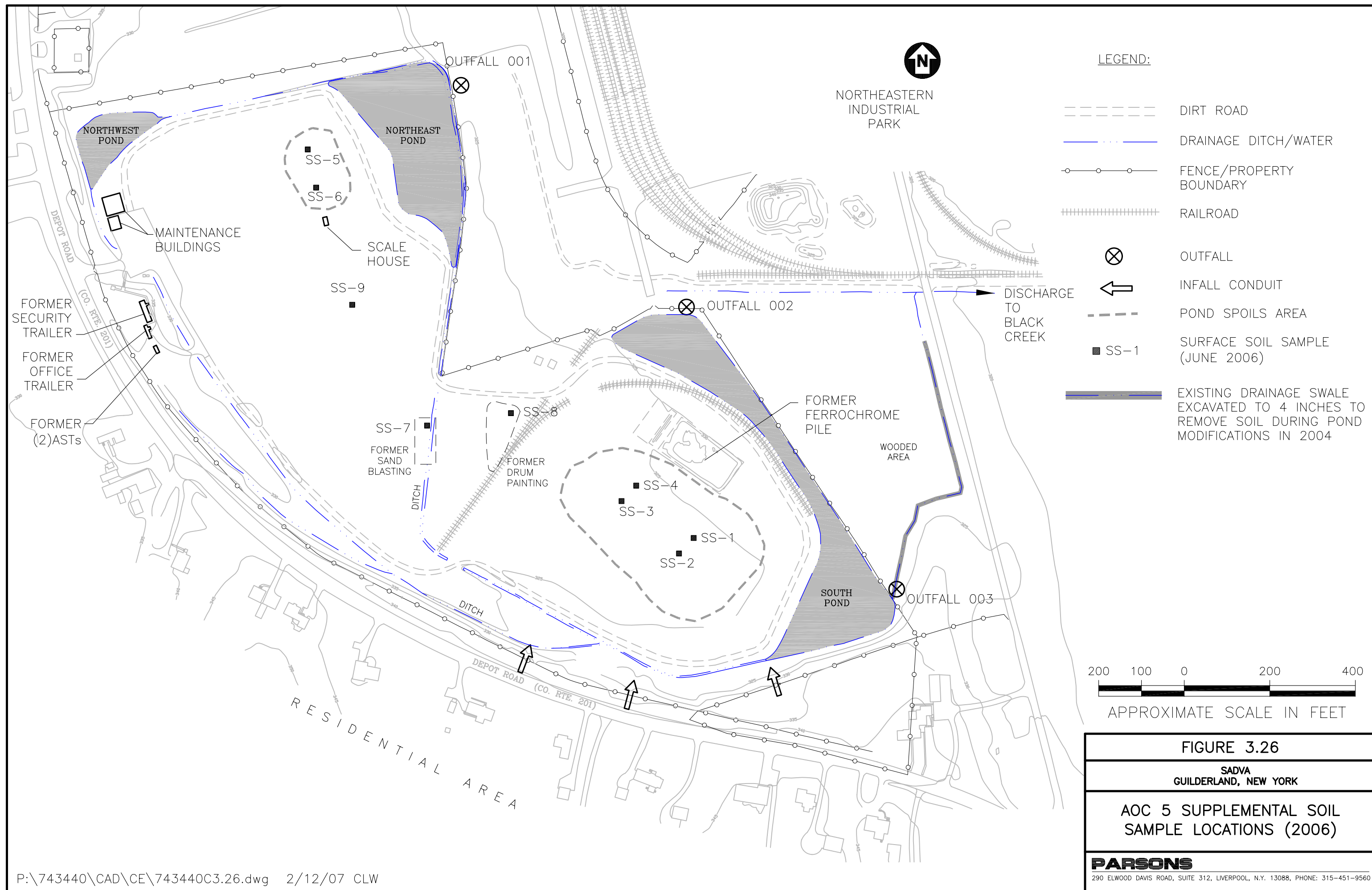
FIGURE 3.24A

SADVA
GUILDERLAND, NEW YORK
AOC 5 SITE PLAN
(CIRCA 2000)

PARSONS

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LEGEND

- GW01 ⊕ GROUNDWATER WELL
- HP/03 ⊕ HYDROPUNCH GROUNDWATER SAMPLE
- X—X— FENCE/PROPERTY BOUNDARY
- 320 — — — INFERRED GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL AS MEASURED ON AUGUST 2-3, 2000.
- GROUNDWATER FLOW DIRECTION

NOTE:

THIS FIGURE PRESENTS SITE CONDITIONS EXISTING AT THE TIME OF THE RI SAMPLING EVENTS. IN LATE 2004, SEVERAL STORMWATER DETENTION BASINS WERE CONSTRUCTED AT VOORHEESVILLE DEPOT. THOSE BASINS ARE NOT REFLECTED ON THIS FIGURE.



Approximate Scale in Feet

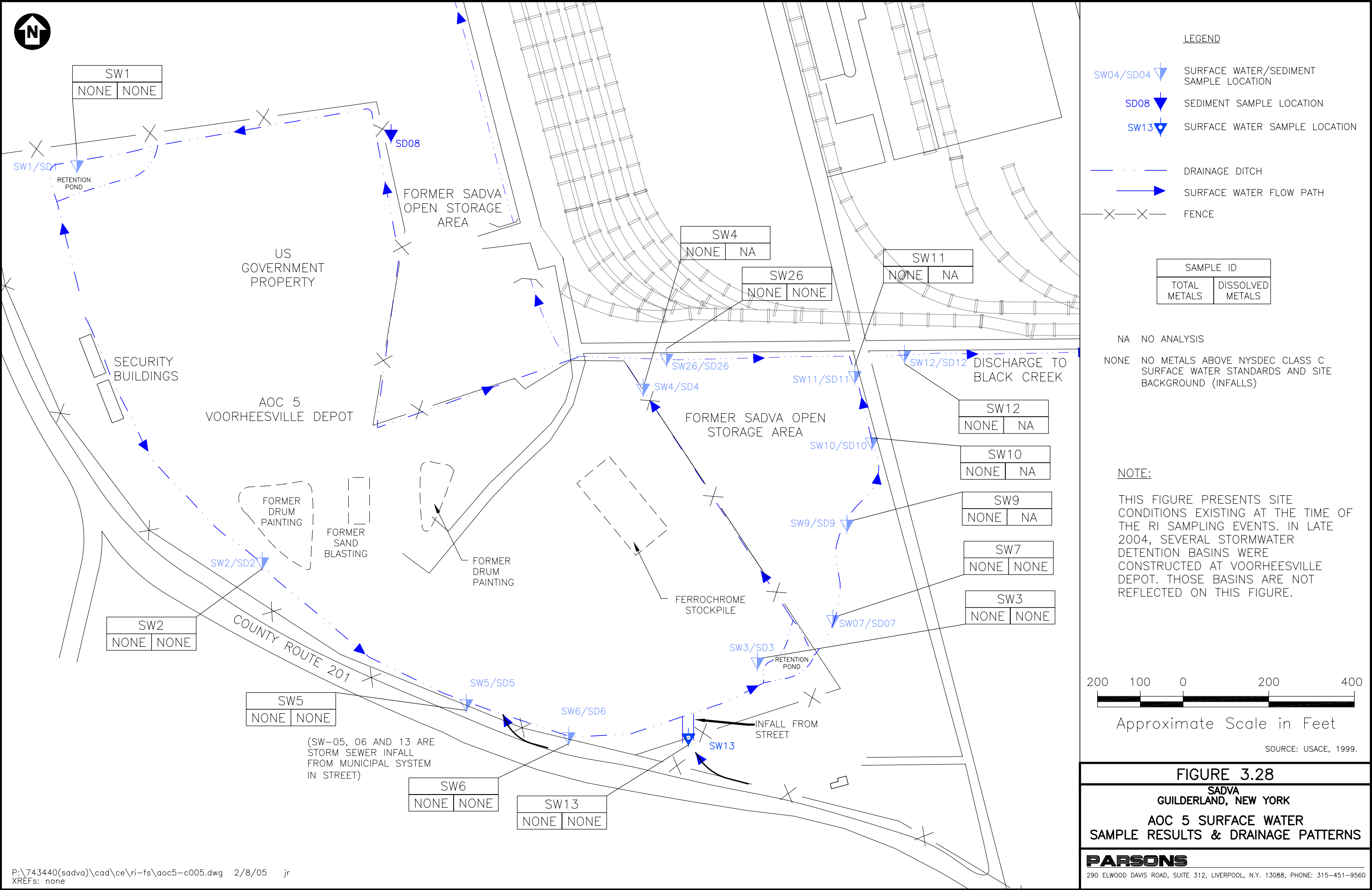
SOURCE: USACE, 1999.

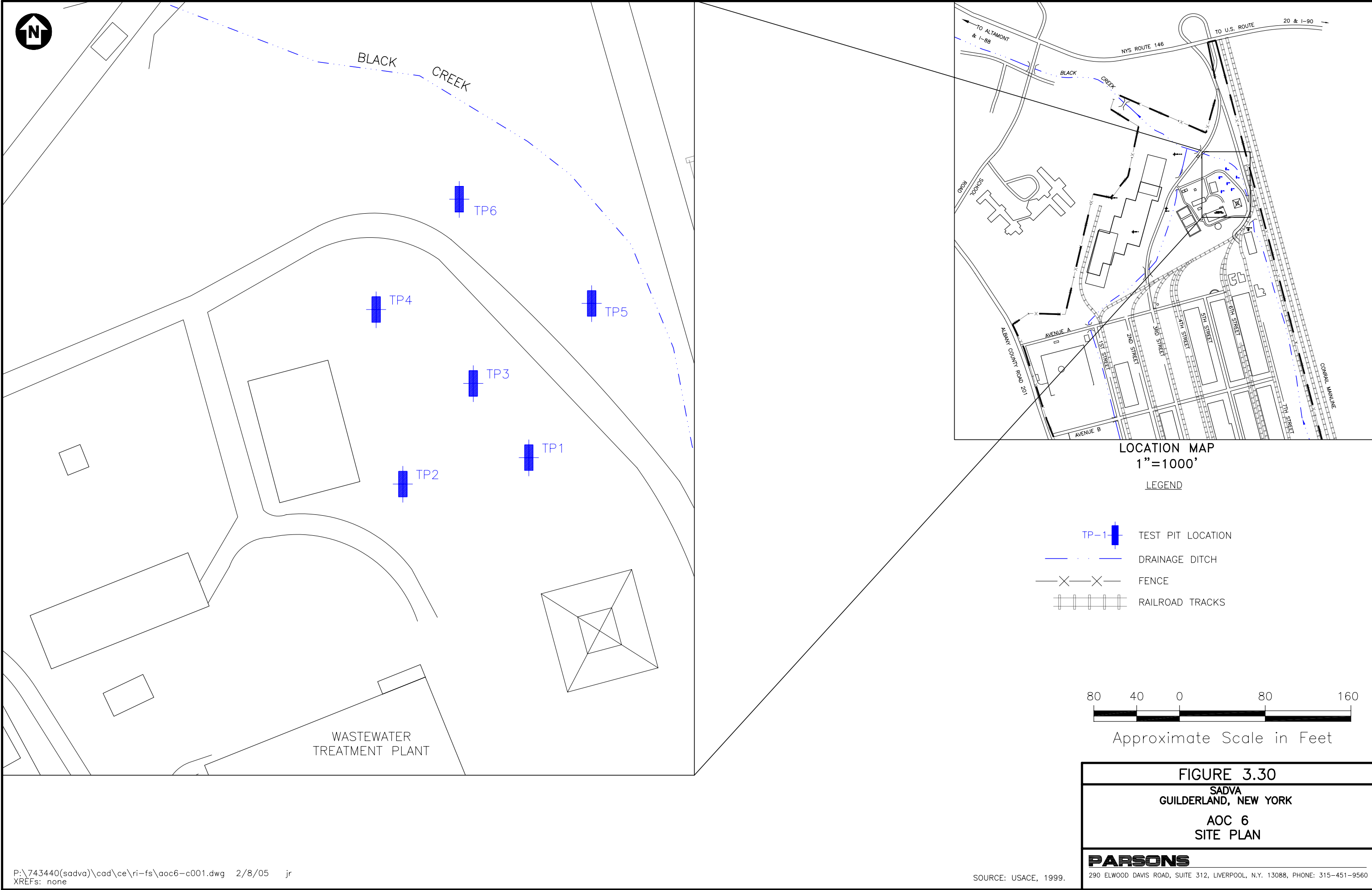
FIGURE 3.27

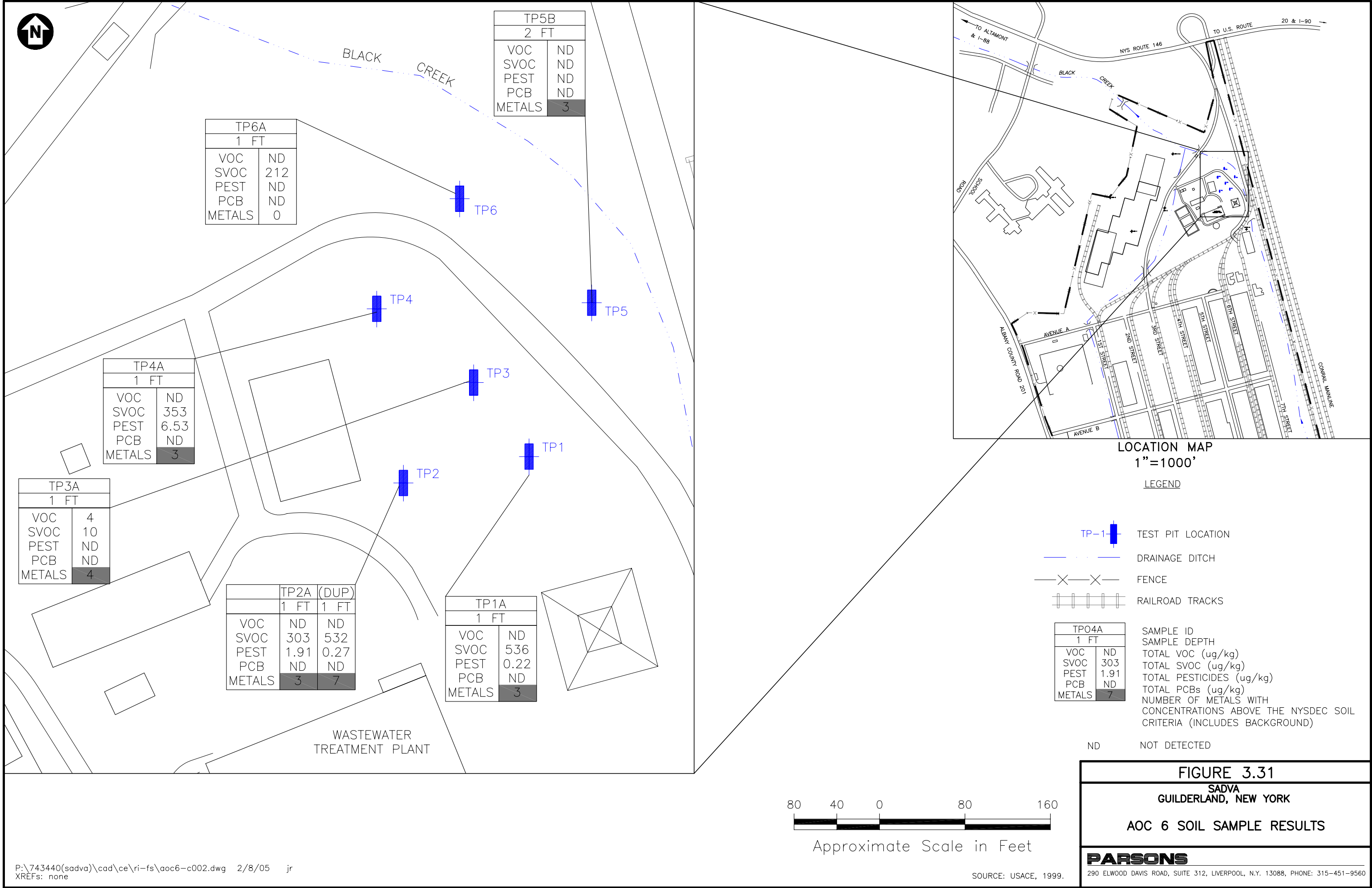
SADVA
GUILDERLAND, NEW YORK
AOC 5 GROUNDWATER
ELEVATION MAP

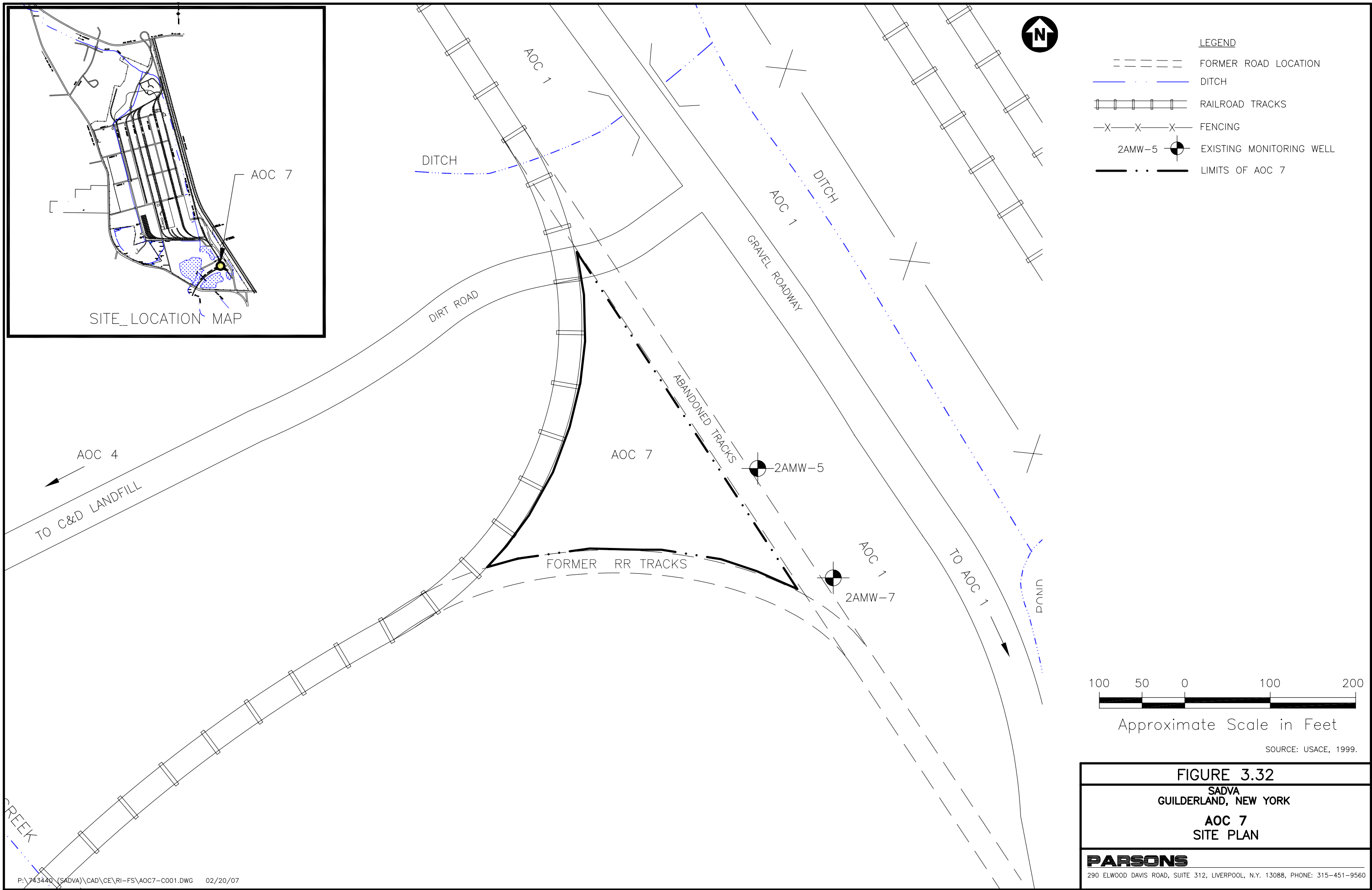
PARSONS

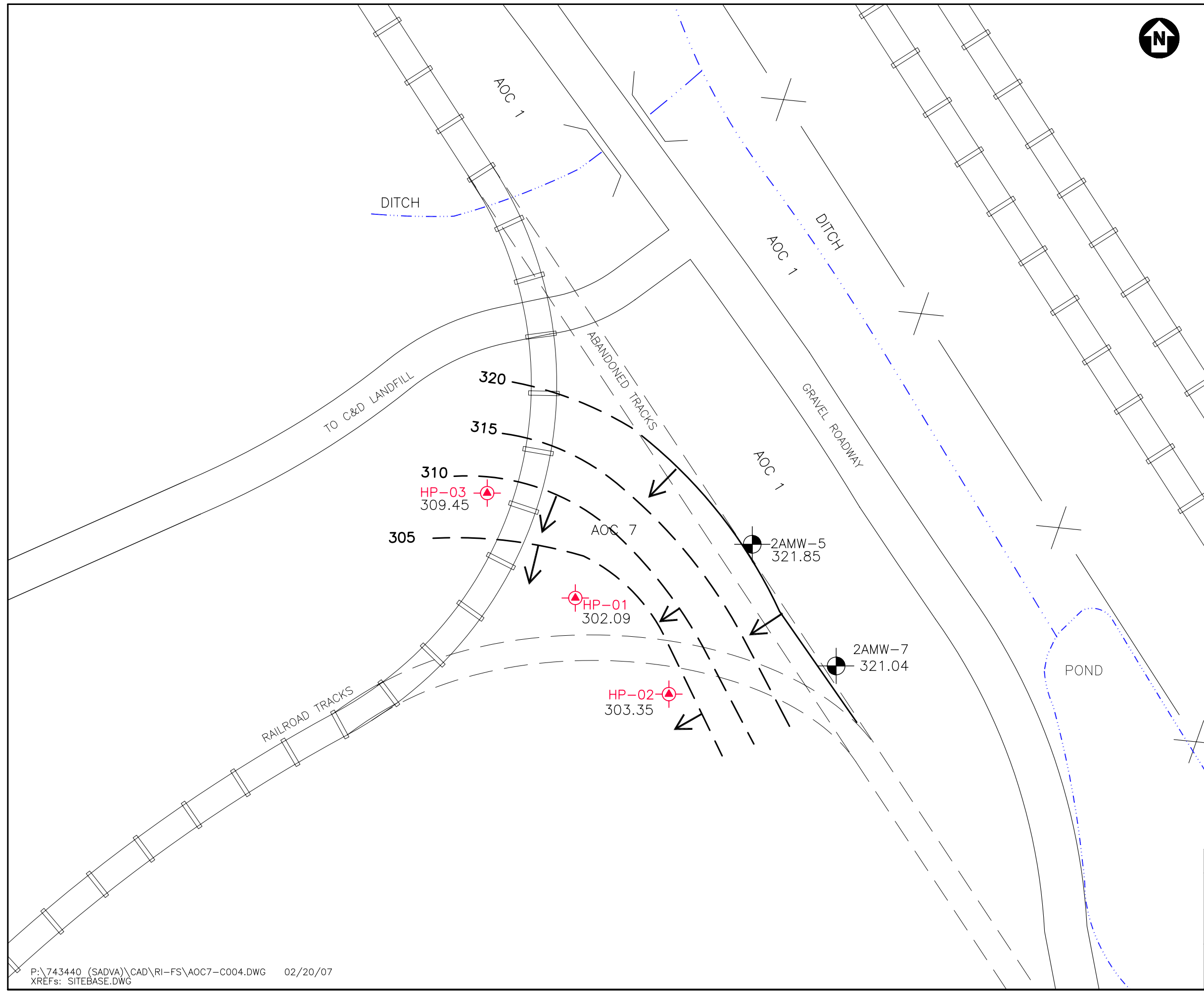
290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, N.Y. 13088, PHONE: 315-451-9560











LEGEND

- FORMER ROAD LOCATION
- . - DITCH
- ||| RAILROAD TRACKS
- X-X-X FENCING
- HP-03- HYDROPUNCH GROUNDWATER SAMPLE
- 2AMW-5- EXISTING MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR
- - - INFERRED GROUNDWATER CONTOUR
- 302.09 WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL AS MEASURED DURING JULY/AUGUST 2000.
- ← GROUNDWATER FLOW DIRECTION



Approximate Scale in Feet

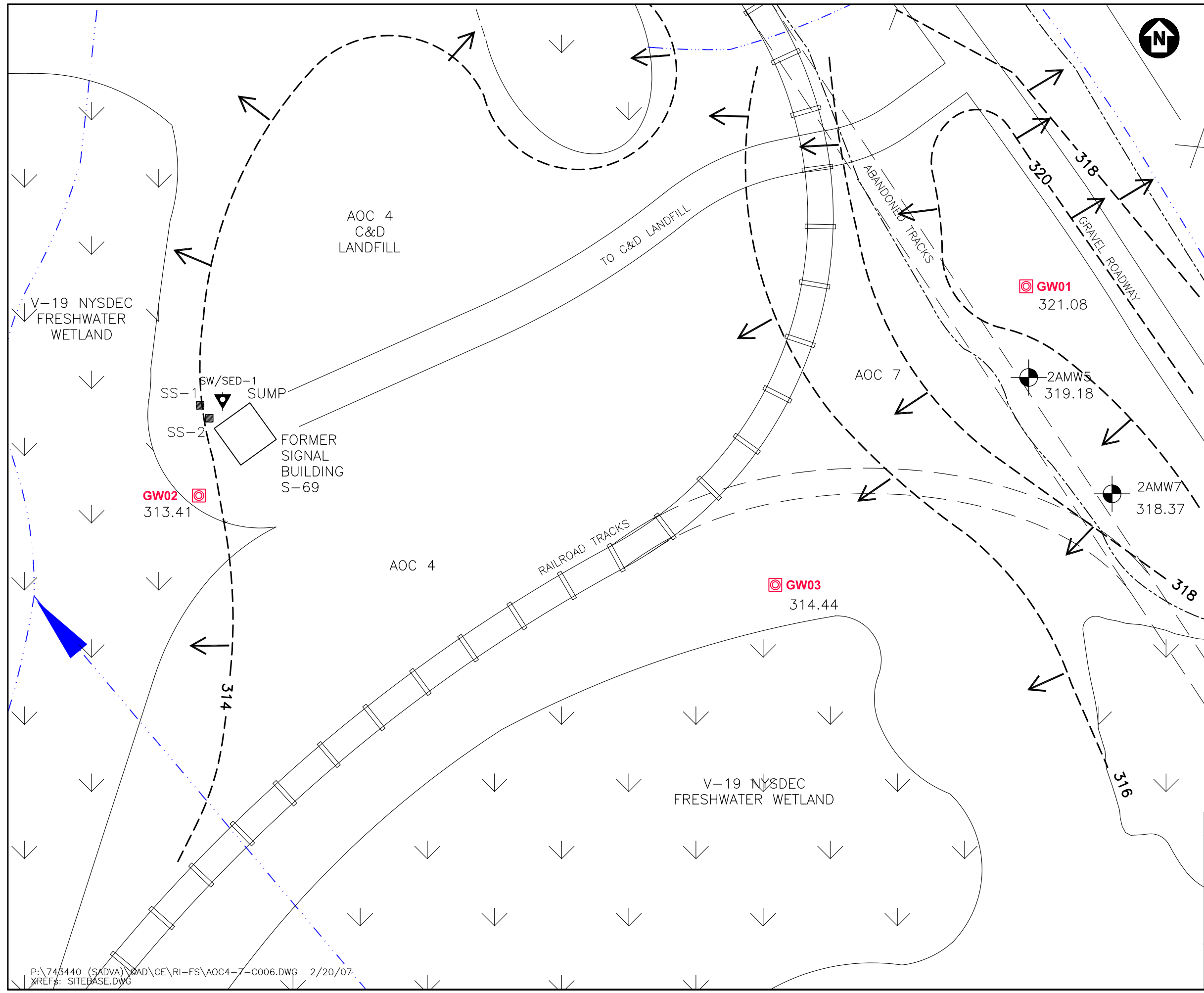
SOURCE: USACE, 1999.

FIGURE 3.34A

SADVA
GUILDERLAND, NEW YORK
AOC 7
GROUNDWATER ELEVATION MAP
JULY/AUGUST 2000



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LEGEND

===== FORMER ROAD LOCATION

--- DITCH

||||| RAILROAD TRACKS

-X-X-X- FENCING

GW01 [Symbol] MONITORING WELL LOCATION (INSTALLED JUNE 2004)

2AMW-5 [Symbol] EXISTING MONITORING WELL

SS-1 [Symbol] RI SURFACE SOIL SAMPLE LOCATION

SW/SED-1 [Symbol] RI SURFACE WATER/SEDIMENT PRIOR SAMPLE

----- INFERRED GROUNDWATER CONTOUR

302.09 WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

[Arrow] GROUNDWATER FLOW DIRECTION

100 50 0 100 200

Approximate Scale in Feet

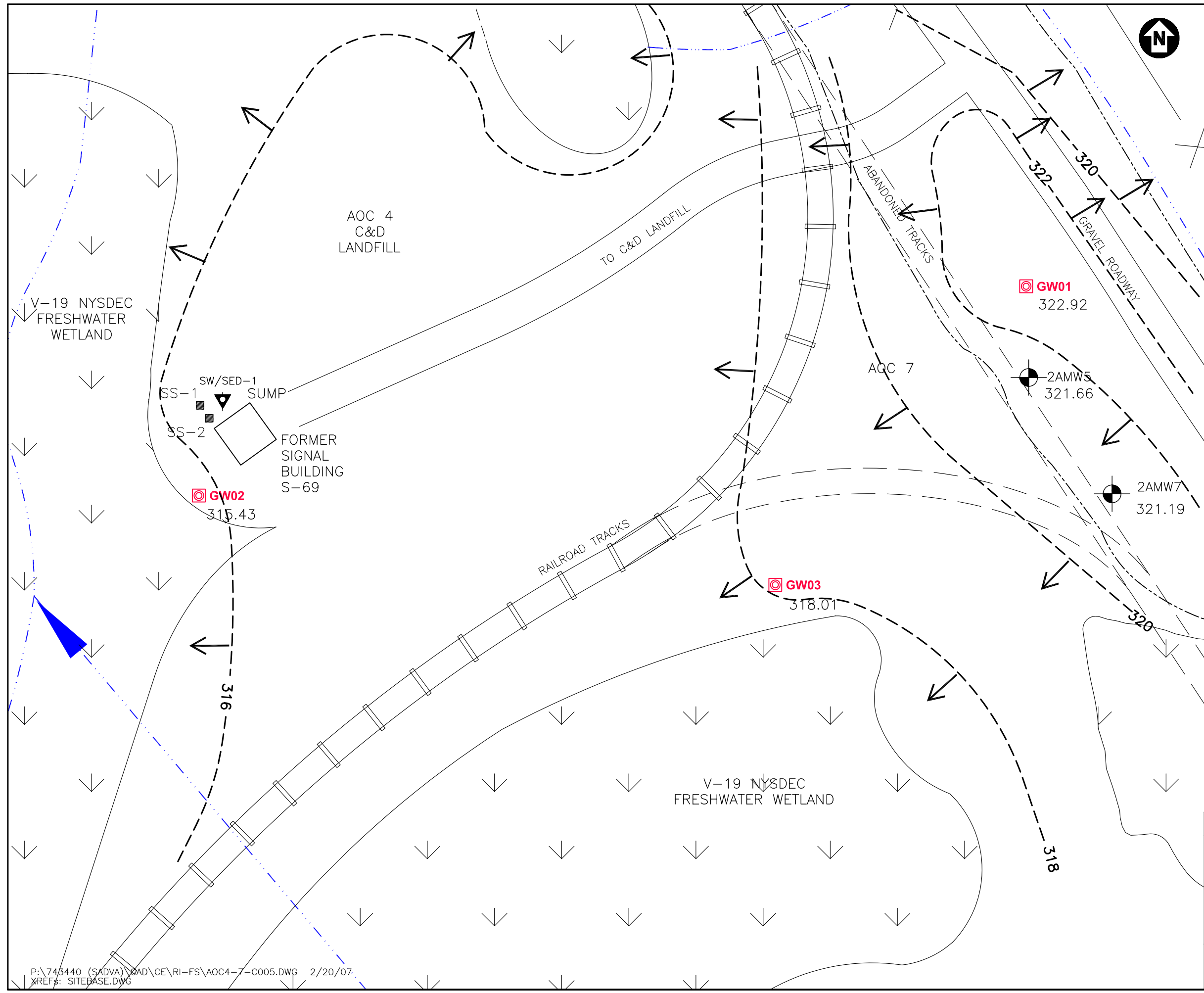
SOURCE: USACE, 1999.

FIGURE 3.34B

SADVA
GUILDERLAND, NEW YORK
AOC 7 AND AOC 4
TRIANGULAR DISPOSAL AREA
C & D LANDFILL
GROUNDWATER ELEVATION MAP
JULY 21 & 22, 2004

PARSONS

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LEGEND

- FORMER ROAD LOCATION
- DITCH
- RAILROAD TRACKS
- FENCING
- GW01** MONITORING WELL LOCATION (INSTALLED JUNE 2004)
- 2AMW-5 EXISTING MONITORING WELL
- SS-1 RI SURFACE SOIL SAMPLE LOCATION
- SW/SED-1 RI SURFACE WATER/SEDIMENT PRIOR SAMPLE
- INFERRED GROUNDWATER CONTOUR
- 302.09 WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- GROUNDWATER FLOW DIRECTION

100 50 0 100 200

Approximate Scale in Feet

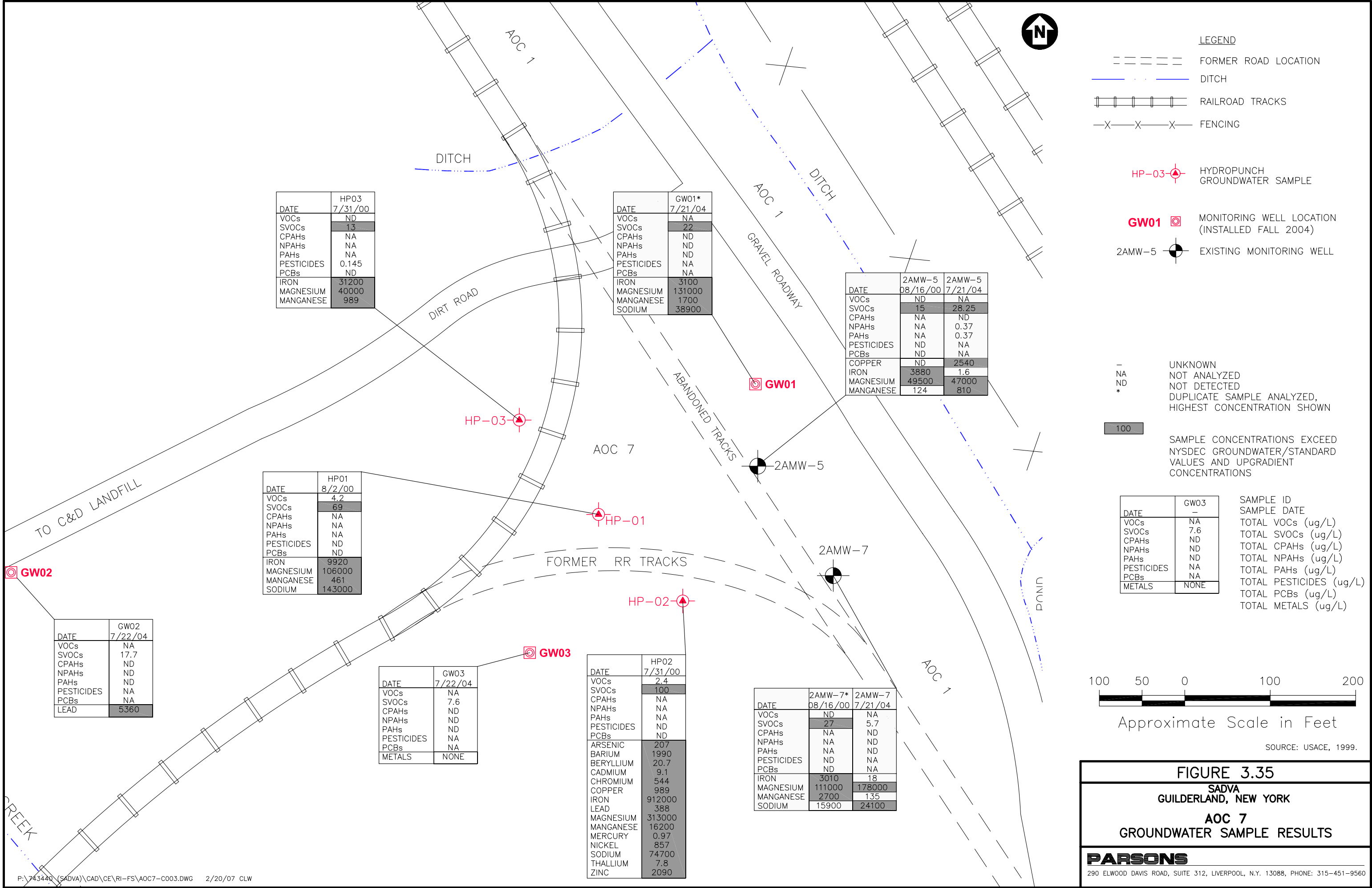
SOURCE: USACE, 1999.

FIGURE 3.34C

SADVA
GUILDERLAND, NEW YORK
AOC 4 AND AOC 7
TRIANGULAR DISPOSAL AREA
C & D LANDFILL
GROUNDWATER ELEVATION MAP
DECEMBER 7, 2004

PARSONS

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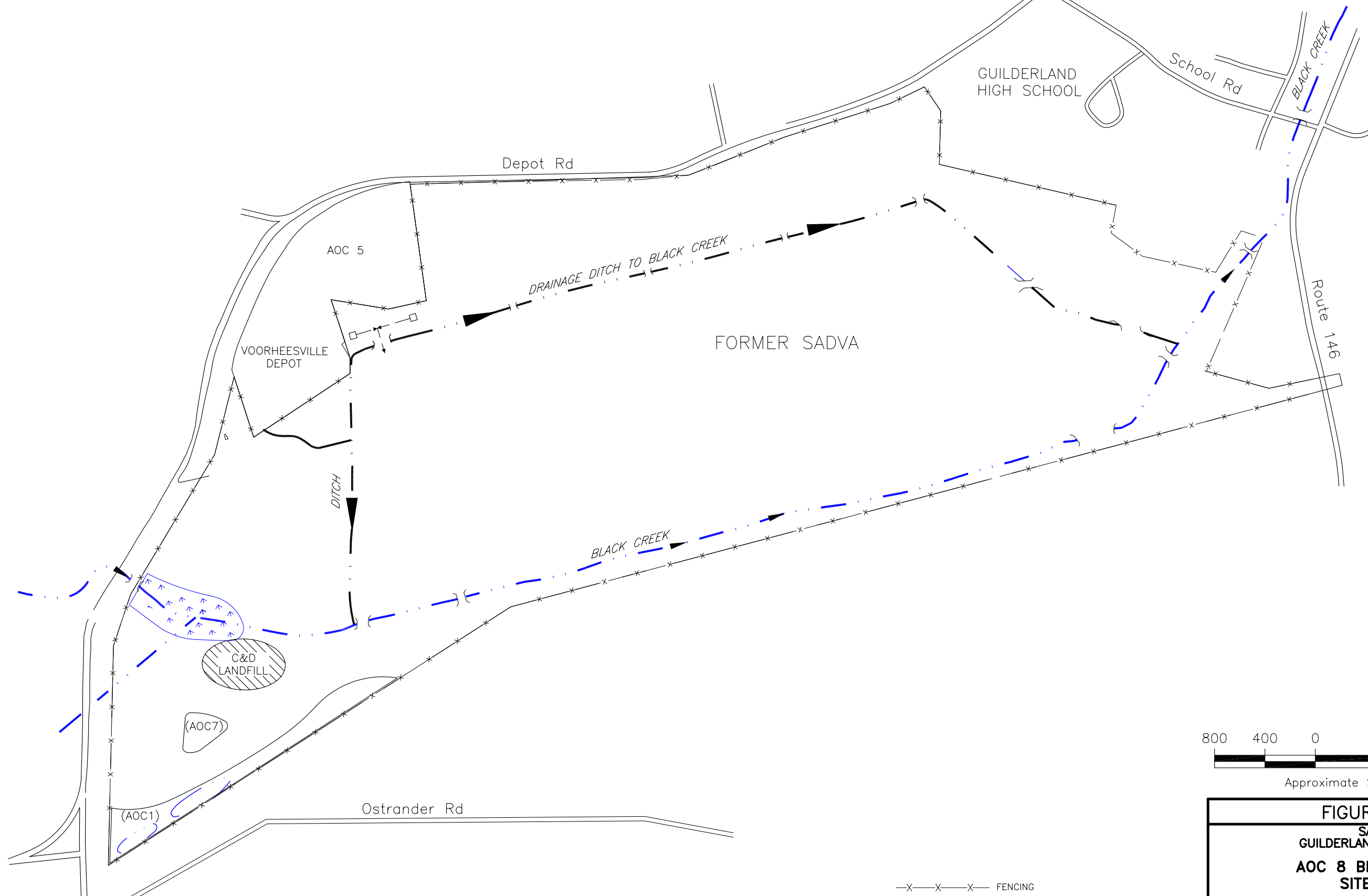
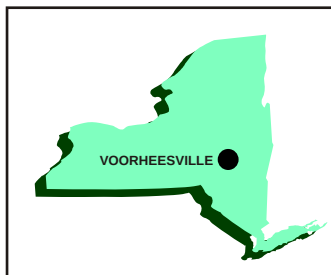
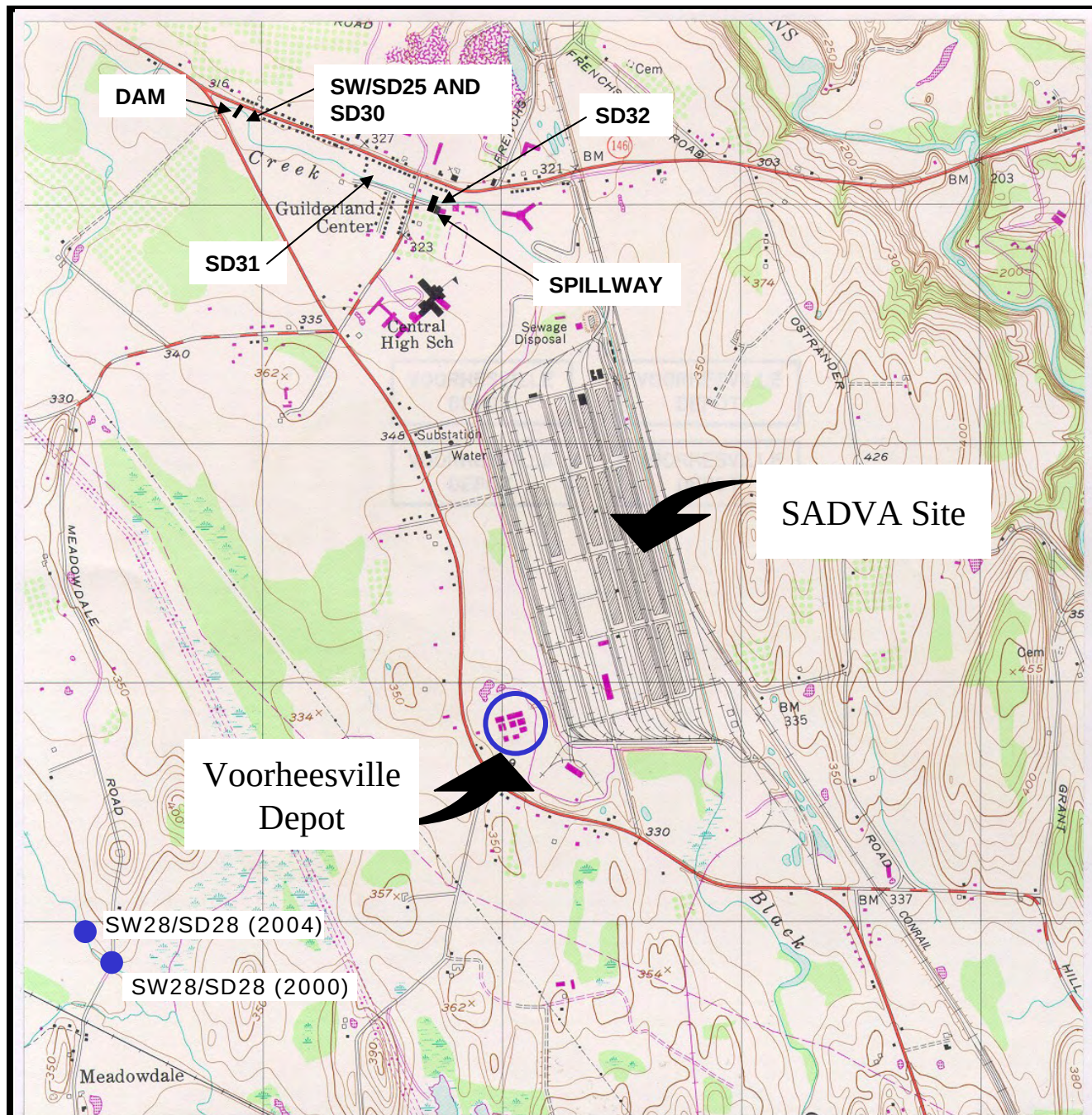


FIGURE 3.36
SADVA GUILDERLAND, NEW YORK
AOC 8 BLACK CREEK SITE PLAN
PARSONS 290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, N.Y. 13088, PHONE: 315-451-9560

- X—X—X— FENCING
- CATCH BASINS AND FLOW DIRECTIONS



New York
Quadrangle



LATITUDE: N42° 15' 20"
LONGITUDE: W75° 14' 38"

2000 1000 0

Approximate Scale in Feet

FIGURE 3.37

SADVA
GUILDERLAND, NEW YORK

AOC 8 BLACK CREEK OFFSITE SURFACE WATER/SEDIMENT SAMPLE LOCATIONS

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Surface Water	SW-10	Unfiltered	20 AUG 98
Analyte	Concentration		Standard / Guidance
Lead, Total	54	ug/L	25 ug/L (S)
4-TDCE	0.038	ug/L	0.2 ug/L (S)
Acetone	10	ug/L	50 ug/L (G)
Carbon Disulfide	0.26	ug/L	ug/L (S)
Toluene	0.52	ug/L	5 ug/L (S)

Sediment	SD-10	Unfiltered	20 AUG 98
Analyte	Concentration	Lowest / Severe Effect Level	
Mercury, Total	0.03	ppm	0.15 / 1.3 ppm
Aluminum, Total	15500	ppm	- ppm
Antimony, Total	NO	ppm	- ppm
Arsenic, Total	5.71	ppm	6.0 / 33.0 ppm
Barium, Total	78	ppm	- ppm
Beryllium, Total	0.469	ppm	- ppm
Cadmium, Total	1.21	ppm	0.6 / 9.0 ppm
Calcium, Total	30900	ppm	- ppm
Chromium, Total	13.6	ppm	26.0 / 110.0 ppm
Cobalt, Total	8.27	ppm	- ppm
Copper, Total	20	ppm	16.0 / 110.0 ppm
Iron, Total**	22600	ppm	2.08 / 4.08 ppm
Lead, Total	13.2	ppm	31.0 / 110.0 ppm
Magnesium, Total	4320	ppm	- ppm
Manganese, Total	694	ppm	460.0 / ppm
Nickel, Total	12.8	ppm	16.0 / 50.0 ppm
Potassium, Total	2960	ppm	- ppm
Sodium, Total	408	ppm	- ppm
Thallium, Total	3.7	ppm	- ppm
Vanadium, Total	24.8	ppm	- ppm
Zinc, Total	144	ppm	120.0 / 270.0 ppm

Surface Water	SW-09	Unfiltered	20 AUG 98
Analyte	Concentration		Standard / Guidance
Lead, Total	11	ug/L	25 ug/L (S)
Chloroform	0.083	ug/L	5 / 17 ug/L (S)
Ethylbenzene	0.73	ug/L	5 ug/L (S)
Methylene Chloride			

Sediment	SD-09	Unfiltered	20 AUG 98
Analyte	Concentration	Lowest / Severe Effect Level	
Mercury, Total	0.027	ppm	0.15 / 1.3 ppm
Aluminum, Total	25500	ppm	- ppm
Arsenic, Total	5.81	ppm	6.0 / 33.0 ppm
Barium, Total	119	ppm	- ppm
Beryllium, Total	0.9	ppm	- ppm
Cadmium, Total	2.12	ppm	0.6 / 9.0 ppm
Calcium, Total	4110	ppm	- ppm
Chromium, Total	32.3	ppm	26.0 / 110.0 ppm
Cobalt, Total	14.7	ppm	- ppm
Copper, Total	42	ppm	16.0 / 110.0 ppm
Iron, Total**	37200	ppm	2.08 / 4.08 ppm
Lead, Total	65.1	ppm	31.0 / 110.0 ppm
Magnesium, Total	6360	ppm	- ppm
Manganese, Total	338	ppm	460.0 / ppm
Nickel, Total	28.1	ppm	16.0 / 50.0 ppm
Potassium, Total	5150	ppm	- ppm
Selenium, Total	1.96	ppm	- ppm
Sodium, Total	146	ppm	- ppm
Thallium, Total	3.7	ppm	- ppm
Vanadium, Total	45.6	ppm	- ppm
Zinc, Total	190	ppm	120.0 / 270.0 ppm

Surface Water	SW-07	Unfiltered	20 AUG 98
Analyte	Concentration		Standard / Guidance
Lead, Total	18	ug/L	25 ug/L (S)
Chloroform	0.53	ug/L	7 ug/L (S)

Surface Water	SW-07-2	Unfiltered	20 AUG 98
Analyte	Concentration		Standard / Guidance
Lead, Total	4	ug/L	25 ug/L (S)
Chloroform	1.4	ug/L	7 ug/L (S)

Sediment	SD-07	Unfiltered	20 AUG 98
Analyte	Concentration	Lowest / Severe Effect Level	
Mercury, Total	0.0302	ppm	0.15 / 1.3 ppm
Aluminum, Total	14000	ppm	- ppm
Arsenic, Total	5.3	ppm	6.0 / 33.0 ppm
Barium, Total	56.3	ppm	- ppm
Beryllium, Total	0.75	ppm	- ppm
Calcium, Total	1.46	ppm	0.6 / 9.0 ppm
Cadmium, Total	3600	ppm	- ppm
Chromium, Total	36.4	ppm	26.0 / 110.0 ppm
Cobalt, Total	6.29	ppm	- ppm
Copper, Total	61.8	ppm	16.0 / 110.0 ppm
Iron, Total**	13800	ppm	2.08 / 4.08 ppm
Lead, Total	182	ppm	31.0 / 110.0 ppm
Magnesium, Total	3480	ppm	- ppm
Manganese, Total	105	ppm	460.0 / ppm
Nickel, Total	17.4	ppm	16.0 / 50.0 ppm
Potassium, Total	2510	ppm	- ppm
Selenium, Total	1.27	ppm	- ppm
Sodium, Total	128	ppm	- ppm
Thallium, Total	1.42	ppm	- ppm
Vanadium, Total	29.6	ppm	- ppm
Zinc, Total	198	ppm	120.0 / 270.0 ppm

Surface Water	SW-04	Unfiltered	20 AUG 98
Analyte	Concentration		Standard / Guidance
Barium, Total	57200	ug/L	1000 ug/L (S)
Calcium, Total	420	ug/L	300 ug/L (S)
Iron, Total	6500	ug/L	35000 ug/L (S)
Lead, Total	21	ug/L	25 ug/L (S)
Magnesium, Total	71	ug/L	300 ug/L (S)
Manganese, Total	72	ug/L	300 ug/L (S)
Potassium, Total	15400	ug/L	20000 ug/L (S)
Sodium, Total	10	ug/L	2000 ug/L (S)
Zinc, Total	0.14	ug/L	3 ug/L (S)
Acetone	7.2	ug/L	50 ug/L (G)
Methylene Chloride	0.44	ug/L	5 ug/L (S)

Surface Water	SW-05	Unfiltered	20 AUG 98
Analyte	Concentration		Standard / Guidance
Lead, Total	6	ug/L	25 ug/L (S)
Acetone	5.5	ug/L	50 ug/L (G)
Ethylbenzene	0.12	ug/L	5 / 17 ug/L (S)
Methylene Chloride	2.2	ug/L	5 ug/L (S)
Tetrachloroethene	0.36	ug/L	5 ug/L (S)
Trichloroethene	0.21	ug/L	5 ug/L (S)
Xylenes, Total	1.1	ug/L	5 ug/L (S)

Sediment	SD-05	Unfiltered	20 AUG 98
Analyte	Concentration	Lowest / Severe Effect Level	
Mercury, Total	0.028	ppm	0.15 / 1.3 ppm
Aluminum, Total	19300	ppm	- ppm
Arsenic, Total	5.63	ppm	6.0 / 33.0 ppm
Barium, Total	9.7	ppm	- ppm
Beryllium, Total	0.595	ppm	- ppm
Calcium, Total	1.36	ppm	0.6 / 9.0 ppm
Cadmium, Total	31200	ppm	- ppm
Chromium, Total	16.8	ppm	26.0 / 110.0 ppm
Cobalt, Total	6.98	ppm	- ppm
Copper, Total	23.8	ppm	16.0 / 110.0 ppm
Iron, Total**	27900	ppm	2.08 / 4.08 ppm
Lead, Total	12.6	ppm	31.0 / 110.0 ppm
Magnesium, Total	9500	ppm	- ppm
Manganese, Total	404	ppm	460.0 / ppm
Nickel, Total	15.4	ppm	16.0 / 50.0 ppm
Potassium, Total	4360	ppm	- ppm
Sodium, Total	293	ppm	- ppm
Thallium, Total	3.47	ppm	- ppm
Vanadium, Total	31.2	ppm	- ppm
Zinc, Total	61.2	ppm	120.0 / 270.0 ppm

Sediment	SD-04	Unfiltered	20 AUG 98
Analyte	Concentration	Lowest / Severe Effect Level	
Mercury, Total	0.017	ppm	0.15 / 1.3 ppm
Aluminum, Total	9800	ppm	- ppm
Arsenic, Total	6.17	ppm	6.0 / 33.0 ppm
Barium, Total	41.5	ppm	- ppm
Beryllium, Total	0.352	ppm	- ppm
Calcium, Total	1.30	ppm	0.6 / 9.0 ppm
Cadmium, Total	4410	ppm	- ppm
Chromium, Total	11.4	ppm	26.0 / 110.0 ppm
Cobalt, Total	6.98	ppm	- ppm
Copper, Total	42.5	ppm	16.0 / 110.0 ppm
Iron, Total**	33000	ppm	2.08 / 4.08 ppm
Lead, Total	11.9	ppm	31.0 / 110.0 ppm
Magnesium, Total	4030	ppm	- ppm
Manganese, Total	295	ppm	460.0 / ppm
Nickel, Total	18.1	ppm	16.0 / 50.0 ppm
Potassium, Total	1950	ppm	- ppm
Sodium, Total	263	ppm	- ppm
Thallium, Total	4.06	ppm	- ppm
Vanadium, Total	15.9	ppm	- ppm
Zinc, Total	175	ppm	120.0 / 270.0 ppm

Surface Water	SW-03	Unfiltered	20 AUG 98
Analyte	Concentration		Standard / Guidance
Barium, Total	20	ug/L	1000 ug/L (S)
Calcium, Total	56700	ug/L	300 ug/L (S)
Iron, Total	370	ug/L	35000 ug/L (S)
Lead, Total	8	ug/L	25 ug/L (S)
Magnesium, Total	8380	ug/L	300 ug/L (S)
Manganese, Total	72	ug/L	300 ug/L (S)
Potassium, Total	11	ug/L	2000 ug/L (S)
Sodium, Total	15400	ug/L	20000 ug/L (S)
Zinc, Total	10	ug/L	2000 ug/L (S)
Acetone	1.4	ug/L	0.2 ug/L (G)
1,1,2,2-Tetrachloroethane	0.31	ug/L	3 ug/L (S)
1,2-Dichlorobenzene	0.53	ug/L	0.6 ug/L (S)
1,3-Dichlorobenzene	0.70	ug/L	5 ug/L (S)
1,4-Dichlorobenzene	0.23	ug/L	3 ug/L (S)
4-Methyl-2-Pentanol	1.8	ug/L	50 ug/L (G)
Acetone	5.5	ug/L	50 ug/L (G)
Chlorobenzene	0.42	ug/L	- ug/L

Sediment	SD-03	Unfiltered	20 AUG 98
Analyte	Concentration	Lowest / Severe Effect Level	
Mercury, Total	0.0137	ppm	0.15 / 1.3 ppm
Aluminum, Total	12700	ppm	- ppm
Arsenic, Total	2.95	ppm	6.0 / 33.0 ppm
Barium, Total	25.4	ppm	- ppm
Beryllium, Total	0.514	ppm	- ppm
Calcium, Total	0.719	ppm	0.6 / 9.0 ppm
Cadmium, Total	2920	ppm	- ppm
Chromium, Total	14.1	ppm	26.0 / 110.0 ppm
Cobalt, Total	7.33	ppm	- ppm
Copper, Total	22.3	ppm	16.0 / 110.0 ppm
Iron, Total**	19900	ppm	2.08 / 4.08 ppm
Lead, Total	6.15	ppm	31.0 / 110.0 ppm
Magnesium, Total	2750	ppm	- ppm
Manganese, Total	287	ppm	460.0 / ppm
Nickel, Total	16.1	ppm	16.0 / 50.0 ppm
Potassium, Total	1700	ppm	- ppm
Sodium, Total	57	ppm	- ppm
Thallium, Total	2.4	ppm	- ppm
Vanadium, Total	25.4	ppm	- ppm
Zinc, Total	51.7	ppm	120.0 / 270.0 ppm

Surface Water	SW-02	Unfiltered	20 AUG 98
Analyte	Concentration		Standard / Guidance
Barium, Total	440	ug/L	1000 ug/L (S)
Calcium, Total	30	ug/L	1000 ug/L (S)
Iron, Total	1670	ug/L	300 ug/L (S)
Lead, Total	8.780	ug/L	25 ug/L (S)
Magnesium, Total	136	ug/L	35000 ug/L (S)
Manganese, Total	656	ug/L	300 ug/L (S)
Potassium, Total	15800	ug/L	20000 ug/L (S)
Sodium, Total	20	ug/L	2000 ug/L (S)
Zinc, Total	0.60	ug/L	0.2 ug/L (G)
1,1,2,2-Tetrachloroethane	0.23	ug/L	3 ug/L (S)
1,2-Dichlorobenzene	0.53	ug/L	0.6 ug/L (S)
1,3-Dichlorobenzene	0.70	ug/L	5 ug/L (S)
1,4-Dichlorobenzene	0.23	ug/L	3 ug/L (S)
4-Methyl-2-Pentanol	1.8	ug/L	50 ug/L (G)
Acetone	0.27	ug/L	- ug/L
Chlorobenzene	0.27	ug/L	- ug/L
Methylene Chloride	0.24	ug/L	5 ug/L (S)

Sediment	SD-02	Unfiltered	20 AUG 98
Analyte	Concentration	Lowest / Severe Effect Level	
Mercury, Total	0.0162	ppm	0.15 / 1.3 ppm
Aluminum, Total	13900	ppm	- ppm
Arsenic, Total	3.57	ppm	6.0 / 33.0 ppm
Barium, Total	71.1	ppm	- ppm
Beryllium, Total	0.39	ppm	- ppm
Calcium, Total	0.909	ppm	0.6 / 9.0 ppm
Chromium, Total	17700	ppm	- ppm
Cobalt, Total	14.7	ppm	26.0 / 110.0 ppm
Copper, Total	6.53	ppm	- ppm
Iron, Total**	16800	ppm	2.08 / 4.08 ppm
Lead, Total	16.8	ppm	31.0 / 110.0 ppm
Magnesium, Total	5250	ppm	- ppm
Manganese, Total	14.3	ppm	460.0 / ppm
Nickel, Total	19.4	ppm	16.0 / 50.0 ppm
Potassium, Total	2240	ppm	- ppm
Sodium, Total	105	ppm	- ppm
Thallium, Total	3.44	ppm	- ppm
Vanadium, Total	25	ppm	- ppm
Zinc, Total	135	ppm	120.0 / 270.0 ppm

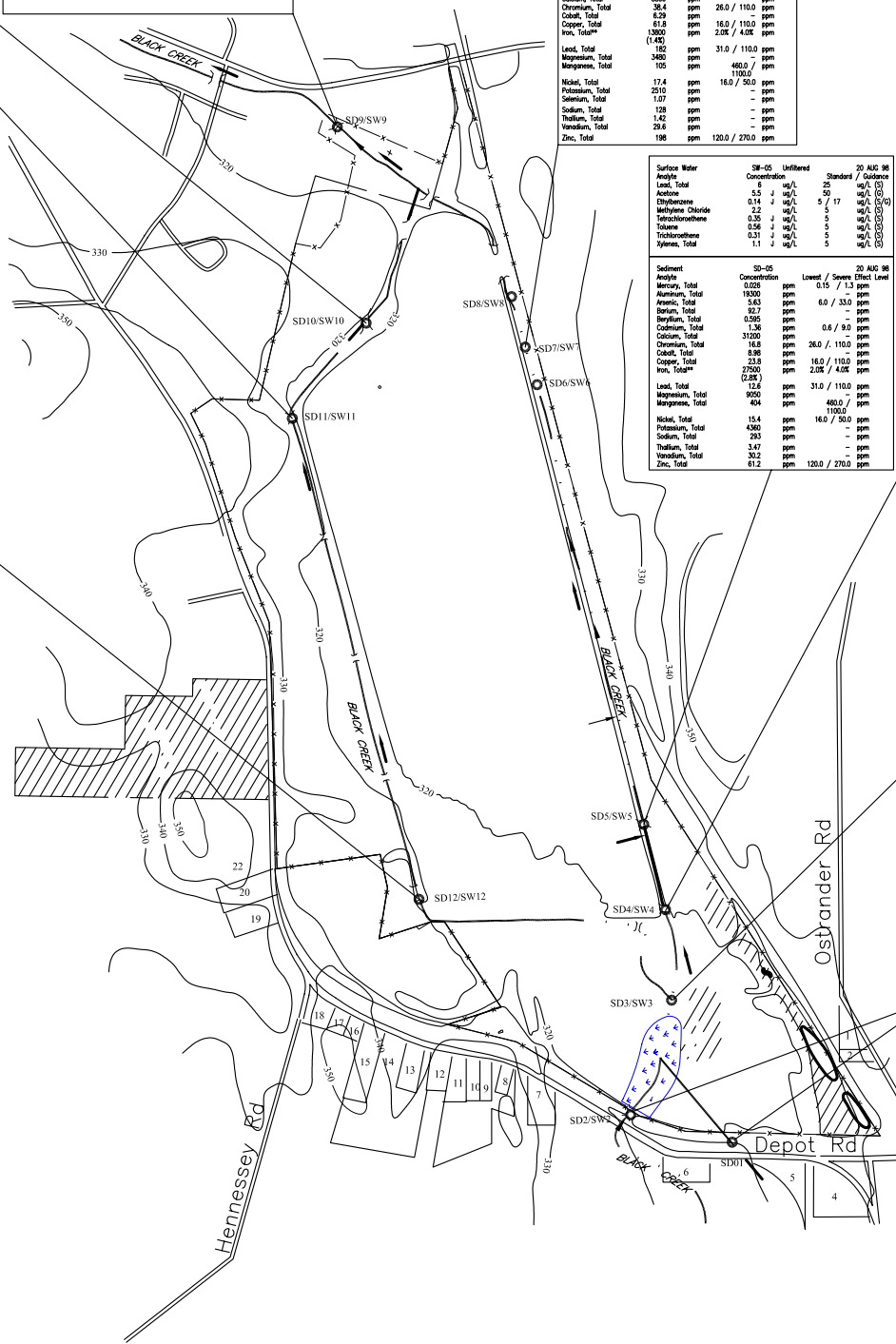
Sediment	SD-01	Unfiltered	20 AUG 98
Analyte	Concentration	Lowest / Severe Effect Level	
Mercury, Total	0.0625	ppm	0.15 / 1.3 ppm
Aluminum, Total	16400	ppm	- ppm
Arsenic, Total	6.72	ppm	6.0 / 33.0 ppm
Barium, Total	71.9	ppm	- ppm
Beryllium, Total	0.284	ppm	- ppm
Calcium, Total	1.69	ppm	0.6 / 9.0 ppm
Chromium, Total	2630	ppm	- ppm
Cobalt, Total	18	ppm	26.0 / 110.0 ppm
Copper, Total	9.25	ppm	16.0 / 110.0 ppm
Iron, Total**	11000	ppm	2.08 / 4.08 ppm
Lead, Total	13.3	ppm	31.0 / 110.0 ppm
Magnesium, Total	5250	ppm	- ppm
Manganese, Total	14.3	ppm	460.0 / ppm
Nickel, Total	19.4	ppm	16.0 / 50.0 ppm
Potassium, Total	2240	ppm	- ppm
Sodium, Total	105	ppm	- ppm
Thallium, Total	3.44	ppm	- ppm
Vanadium, Total	25	ppm	- ppm
Zinc, Total	135	ppm	120.0 / 270.0 ppm

Surface Water	SW-12	Unfiltered	20 AUG 98
Analyte	Concentration		Standard / Guidance
Lead, Total	126	ug/L	25 ug/L (S)
Methylene Chloride	1.3	ug/L	5 ug/L (S)

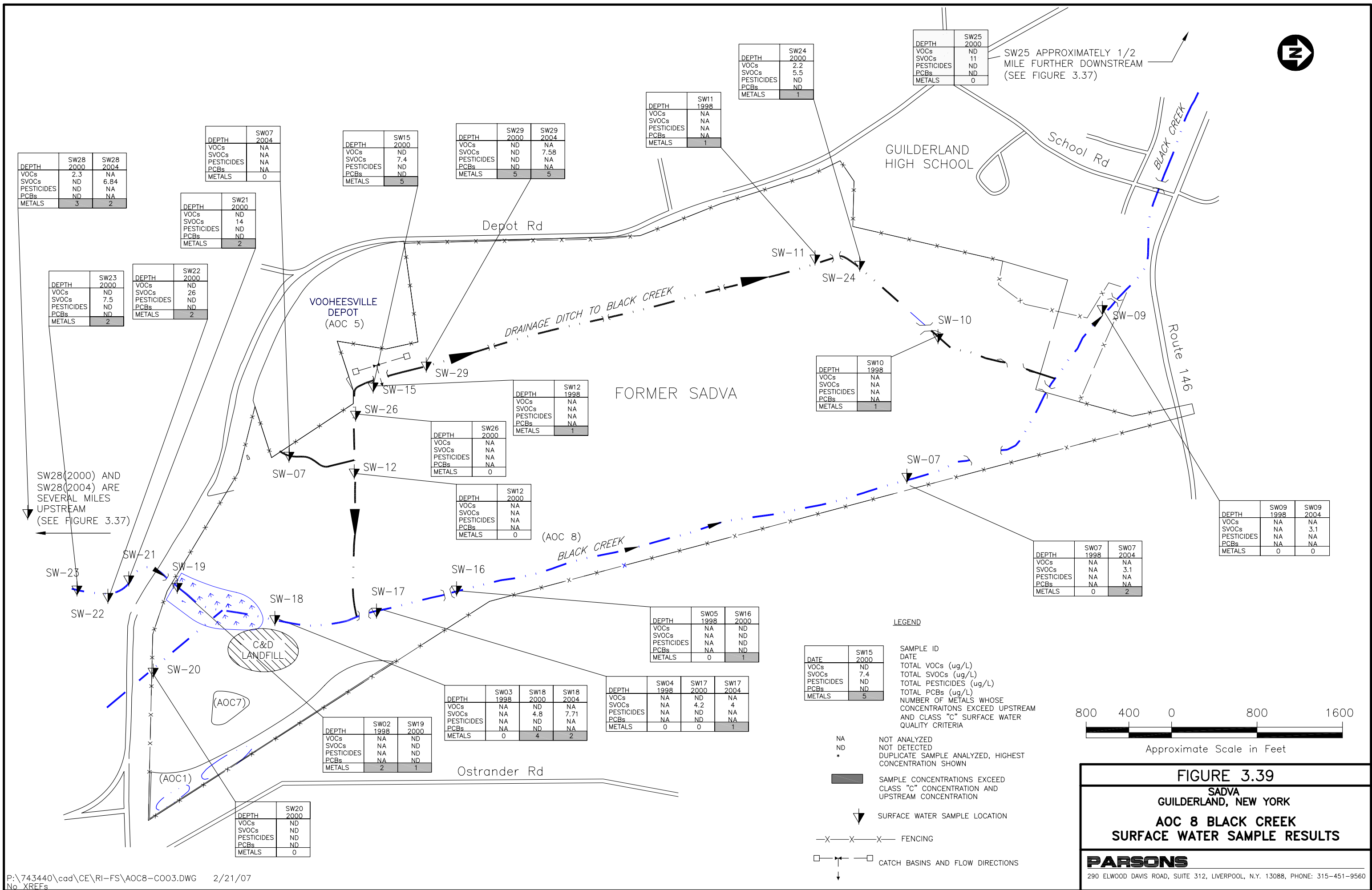
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Analyte	Concentration	Lowest / Severe Effect Level	
Mercury, Total	0.034	ppm	0.15 / 1.3 ppm
Aluminum, Total	24300	ppm	- ppm
Arsenic, Total	5.55	ppm	6.0 / 33.0 ppm
Barium, Total	114	ppm	- ppm
Beryllium, Total	0.73	ppm	- ppm
Cadmium, Total	1.23	ppm	0.6 / 9.0 ppm
Calcium, Total	3330	ppm	- ppm
Chromium, Total	27	ppm	26.0 / 110.0 ppm
Cobalt, Total	9.27	ppm	- ppm
Copper, Total	59.1	ppm	16.0 / 110.0 ppm
Iron, Total**	29300	ppm	2.08 / 4.08 ppm
Lead, Total	37.7	ppm	31.0 / 110.0 ppm
Magnesium, Total	3200	ppm	- ppm
Manganese, Total	212	ppm	460.0 / ppm
Nickel, Total	20.9	ppm	16.0 / 50.0 ppm
Potassium, Total	0.91	ppm	- ppm
Sodium, Total	108	ppm	- ppm
Thallium, Total	2.27	ppm	- ppm
Vanadium, Total	36.8	ppm	- ppm
Zinc, Total	175	ppm	120.0 / 270.0 ppm

NORTHEASTERN INDUSTRIAL
PARK BOUNDARY
BLACK CREEK APPROXIMATE
APPROXIMATE BOUNDARIES OF AOCs

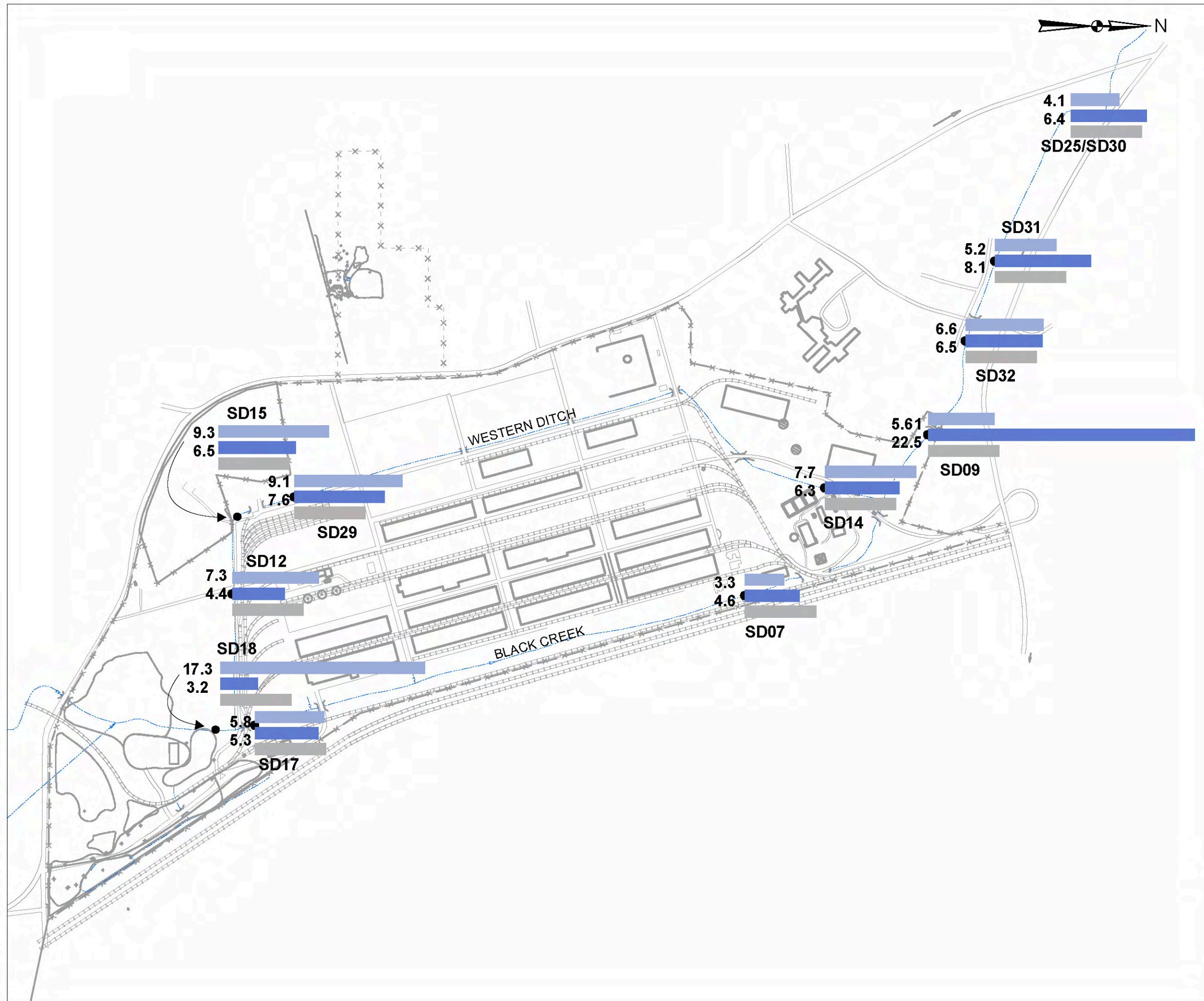
SOURCES:
USGS 7.5 MINUTE QUADRANGLE
VOHESVILLE, N.Y. 1980 AND
SITE PLAN PREPARED BY
H & A OF N.Y. GEOTECHNICAL ENGINEERS
& ENVIRONMENTAL CONSULTANTS
COUNTY OF ALBANY, REAL PROPERTY
TAX SERVICE, 1997



Job No. 736741	Designed	Drawn	Checked	Reviewed	Approved	Reg. No. XXXX	Date	Rev	Date	Description
	JAR	JAR	JAR	JAR	JAR	JAR				
Issue Certification										
NOT FOR BIDDING OR CONSTRUCTION										
PARSONS ENGINEERING SCIENCE, INC. LIVERPOOL, N.Y. (315) 451-9560										
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SADVA GUILDERLAND, NEW YORK										
AOC 8 BLACK CREEK PREVIOUS SAMPLING RESULTS (PRIOR TO REMEDIAL INVESTIGATION)										
FIGURE 3.38										
REV. 1										



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LEGEND

- 9.3 SHALLOW SAMPLE CONCENTRATION (IN MG/KG)
- 6.5 DEEP SAMPLE CONCENTRATION (IN MG/KG)
- CRITERION (6 MG/KG)



SCALE IN FEET

FIGURE — 3.41a

SADVA
GUILDERLAND, NEW YORK
AOC 8 SEDIMENT
SAMPLE RESULTS — ARSENIC

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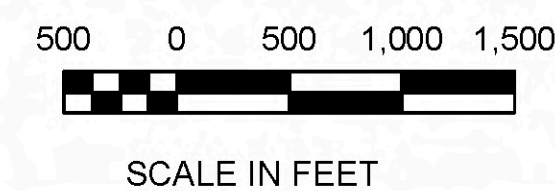
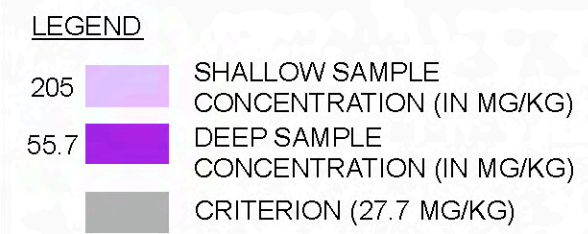
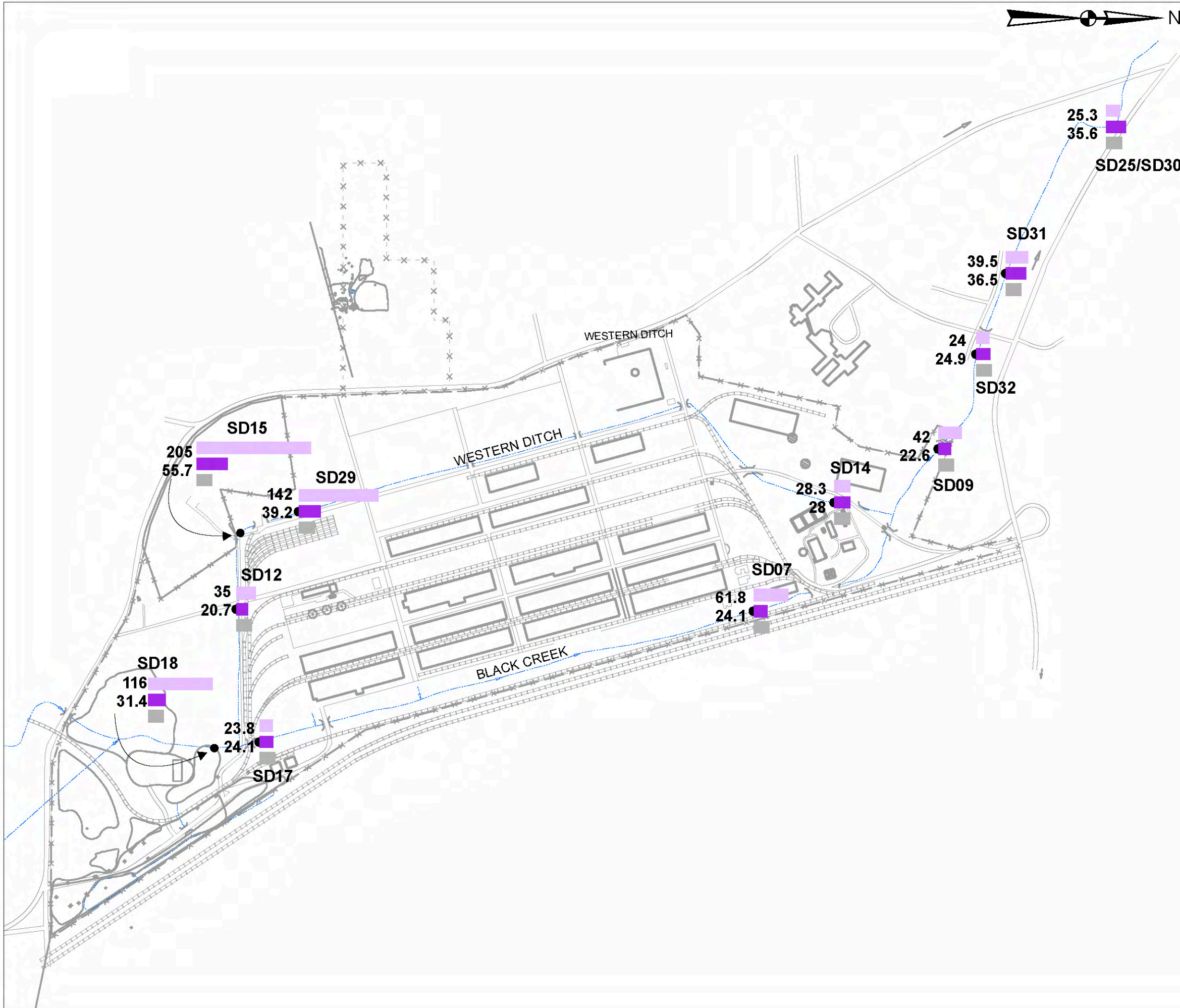


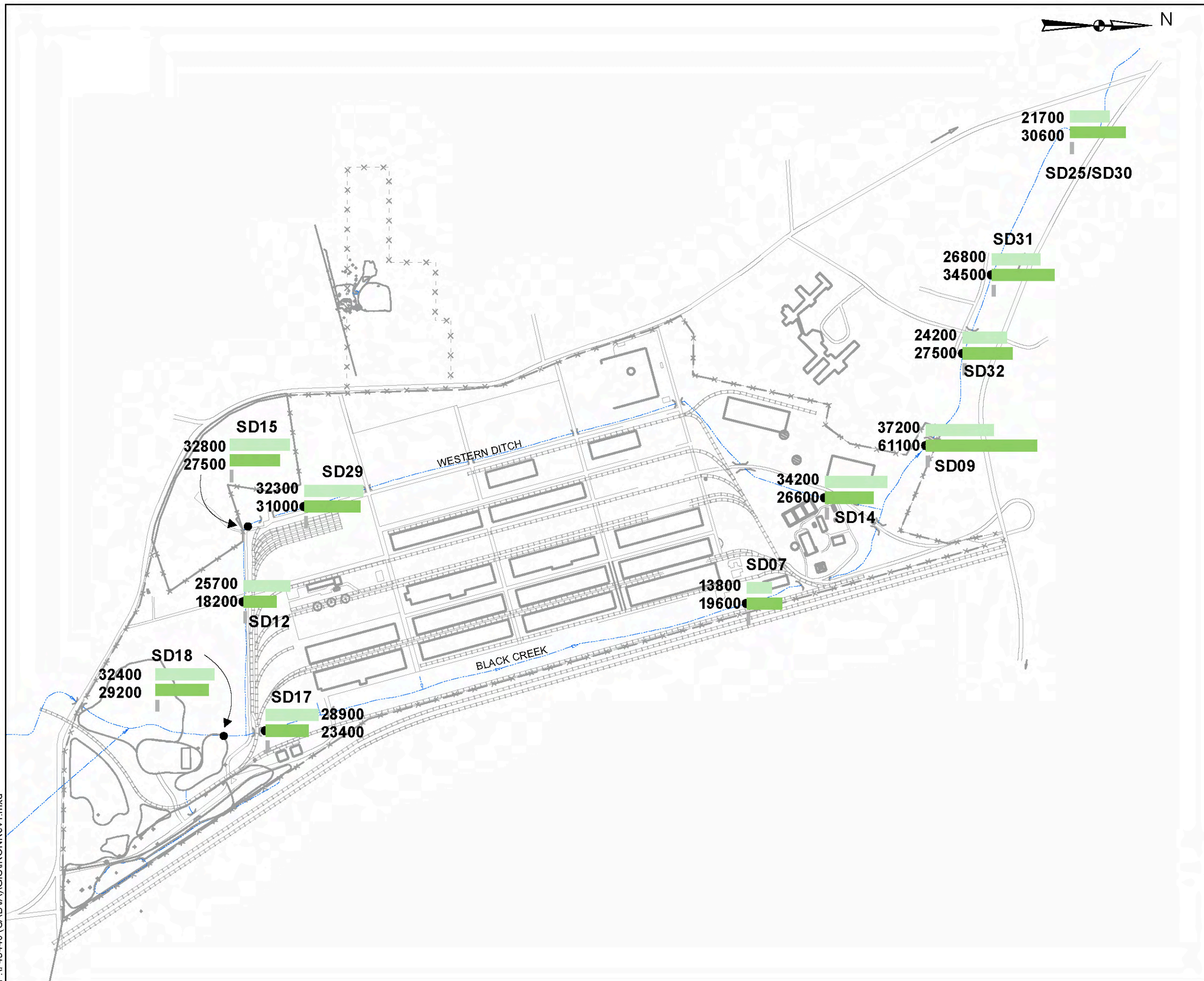
FIGURE – 3.41b

SADVA
GUILDERLAND, NEW YORK
AOC 8 SEDIMENT
SAMPLE RESULTS – COPPER

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LEGEND

- 205 SHALLOW SAMPLE CONCENTRATION (IN MG/KG)
- 55.7 DEEP SAMPLE CONCENTRATION (IN MG/KG)
- CRITERION (2000 MG/KG)



SCALE IN FEET

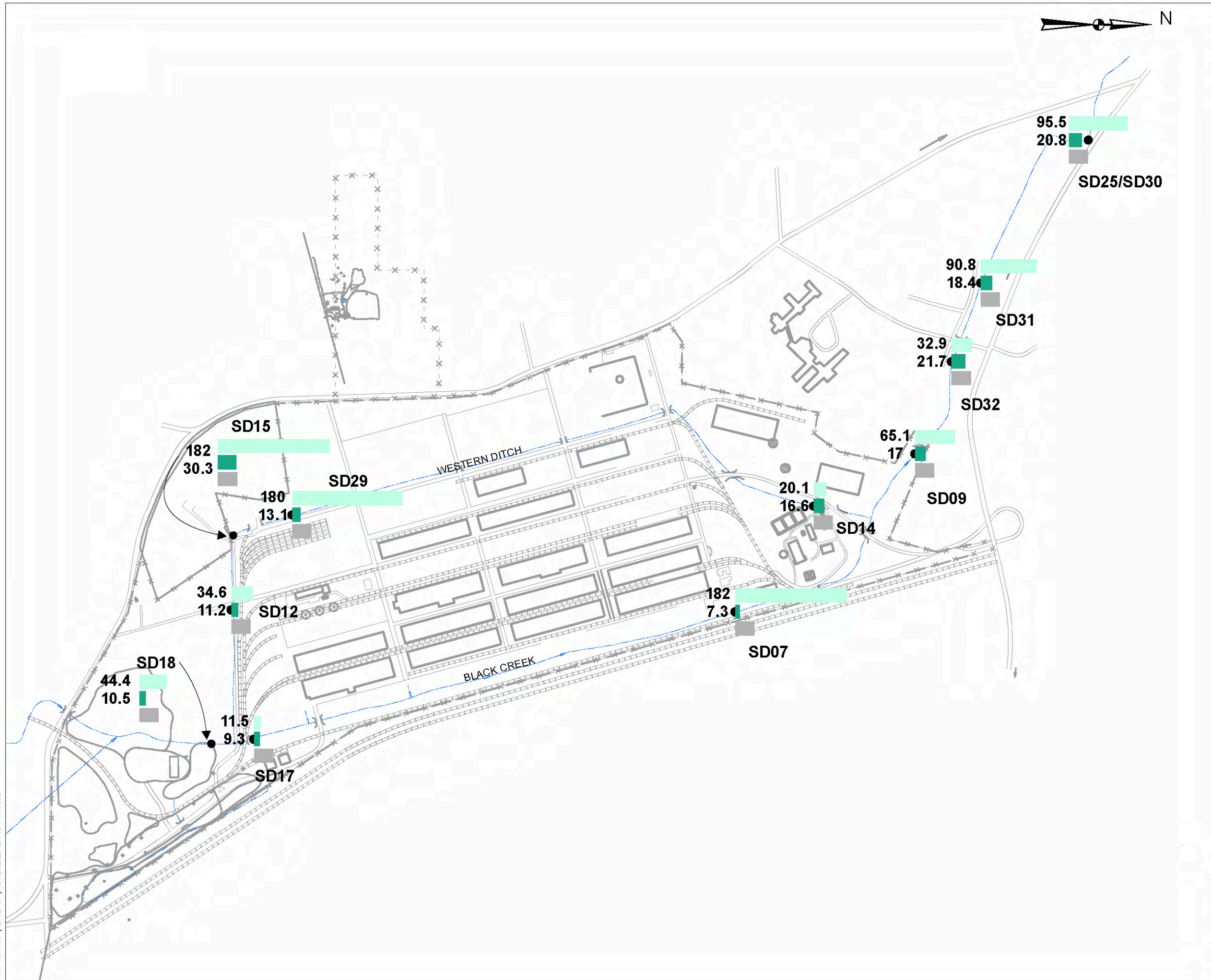
FIGURE - 3.41c

SADVA
GUILDERLAND, NEW YORK
AOC 8 SEDIMENT
SAMPLE RESULTS - IRON

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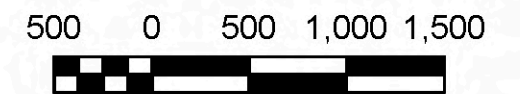
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LEGEND

- 205 SHALLOW SAMPLE CONCENTRATION (IN MG/KG)
- 55.7 DEEP SAMPLE CONCENTRATION (IN MG/KG)
- CRITERION (31 MG/KG)



SCALE IN FEET

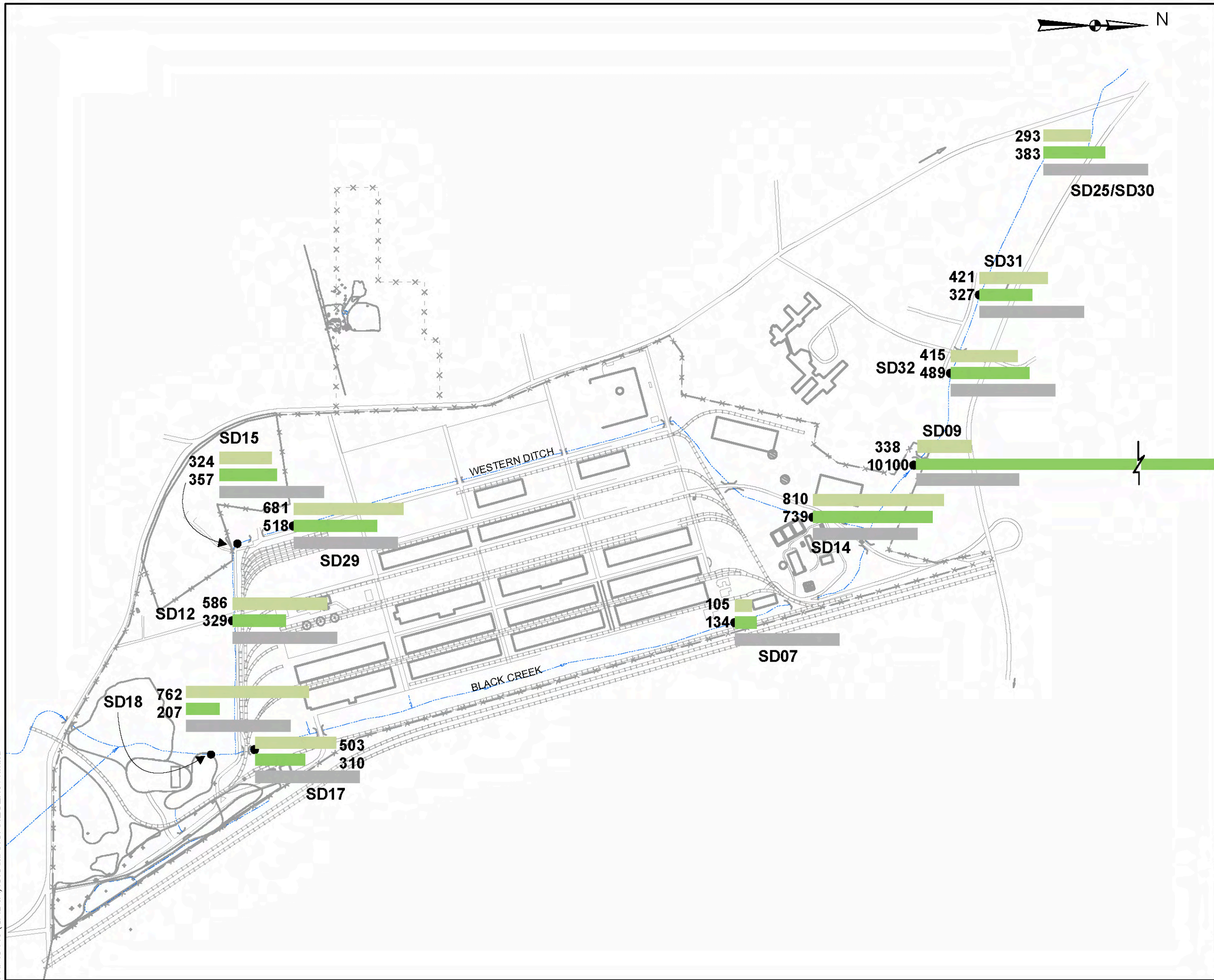
FIGURE – 3.41d

SADVA
GUILDERLAND, NEW YORK
AOC 8 SEDIMENT
SAMPLE RESULTS – LEAD

PARSONS

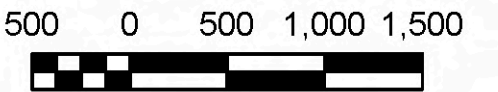
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LEGEND

- 205 SHALLOW SAMPLE CONCENTRATION (IN MG/KG)
- 55.7 DEEP SAMPLE CONCENTRATION (IN MG/KG)
- CRITERION (647 MG/KG)



SCALE IN FEET

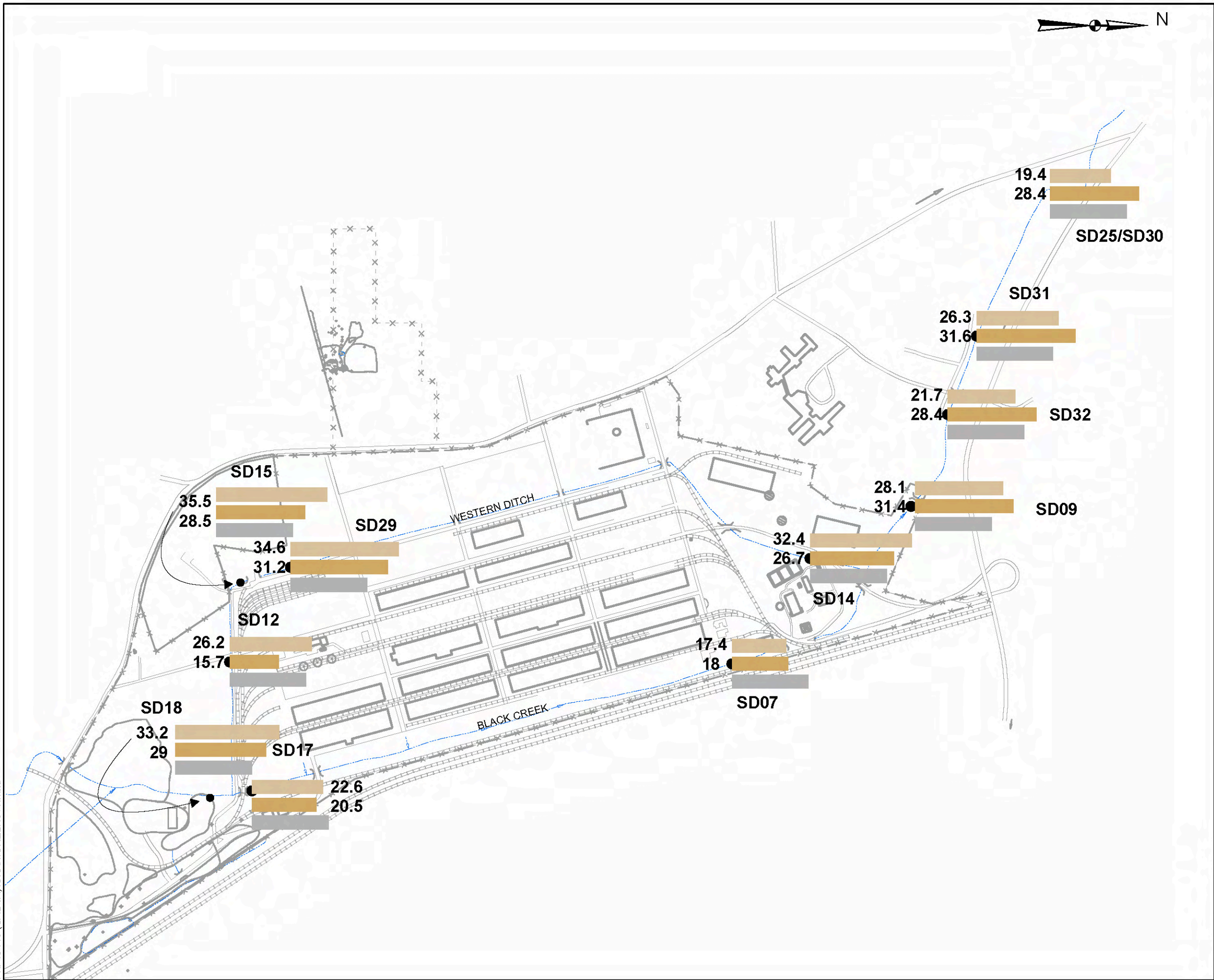
FIGURE - 3.41e

SADVA
GUILDERLAND, NEW YORK
AOC 8 SEDIMENT
SAMPLE RESULTS - MANGANESE

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LEGEND

- 205 SHALLOW SAMPLE CONCENTRATION (IN MG/KG)
- 55.7 DEEP SAMPLE CONCENTRATION (IN MG/KG)
- CRITERION (24.5 PPM)



SCALE IN FEET

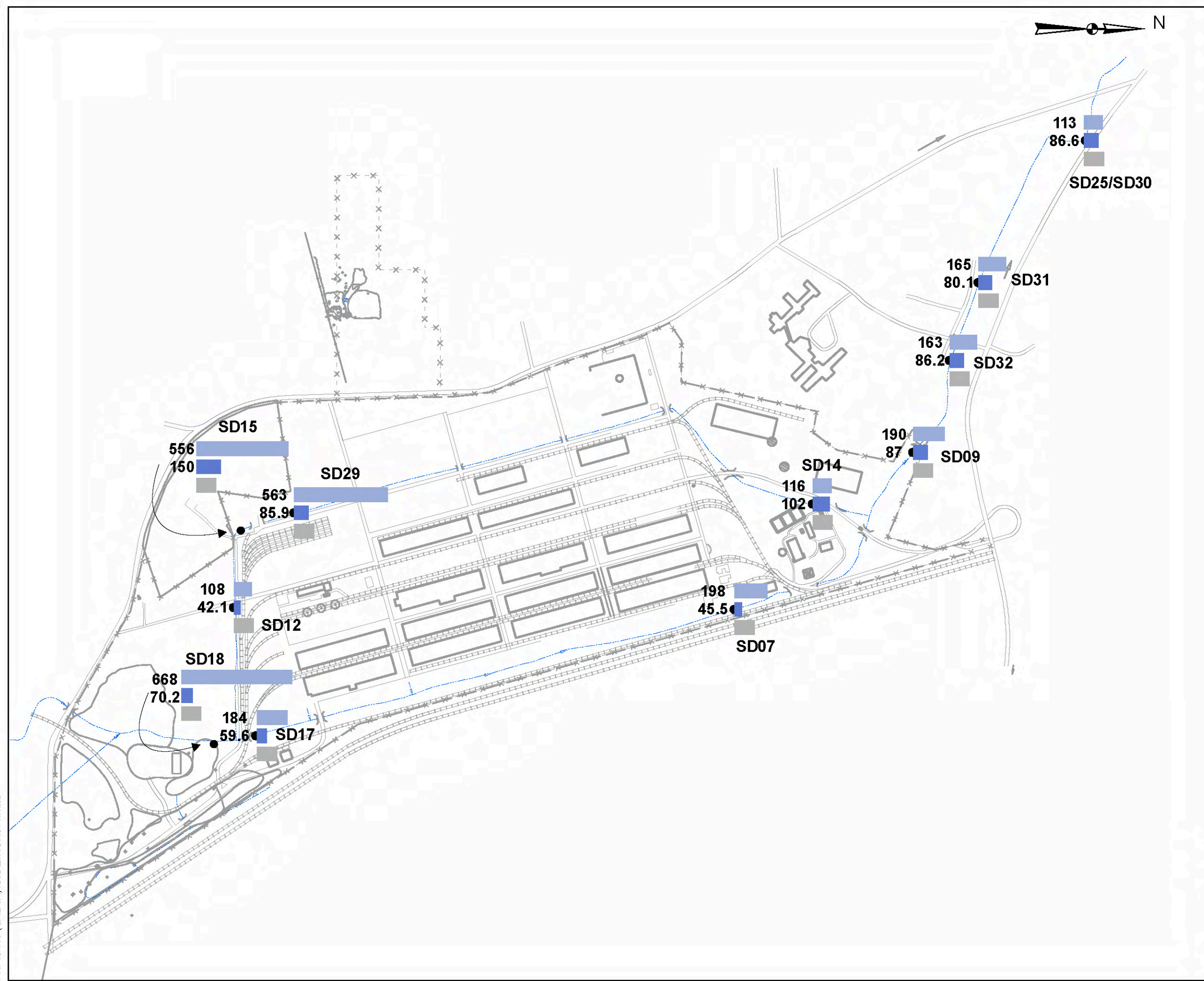
FIGURE - 3.41f

SADVA
GUILDERLAND, NEW YORK
AOC 8 SEDIMENT
SAMPLE RESULTS - NICKEL

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LEGEND

- 205 SHALLOW SAMPLE CONCENTRATION (IN MG/KG)
- 55.7 DEEP SAMPLE CONCENTRATION (IN MG/KG)
- CRITERION (120 PPM)

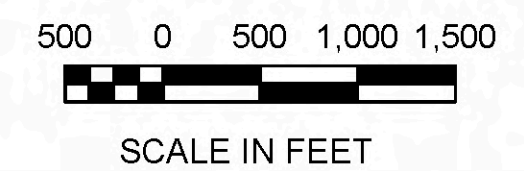
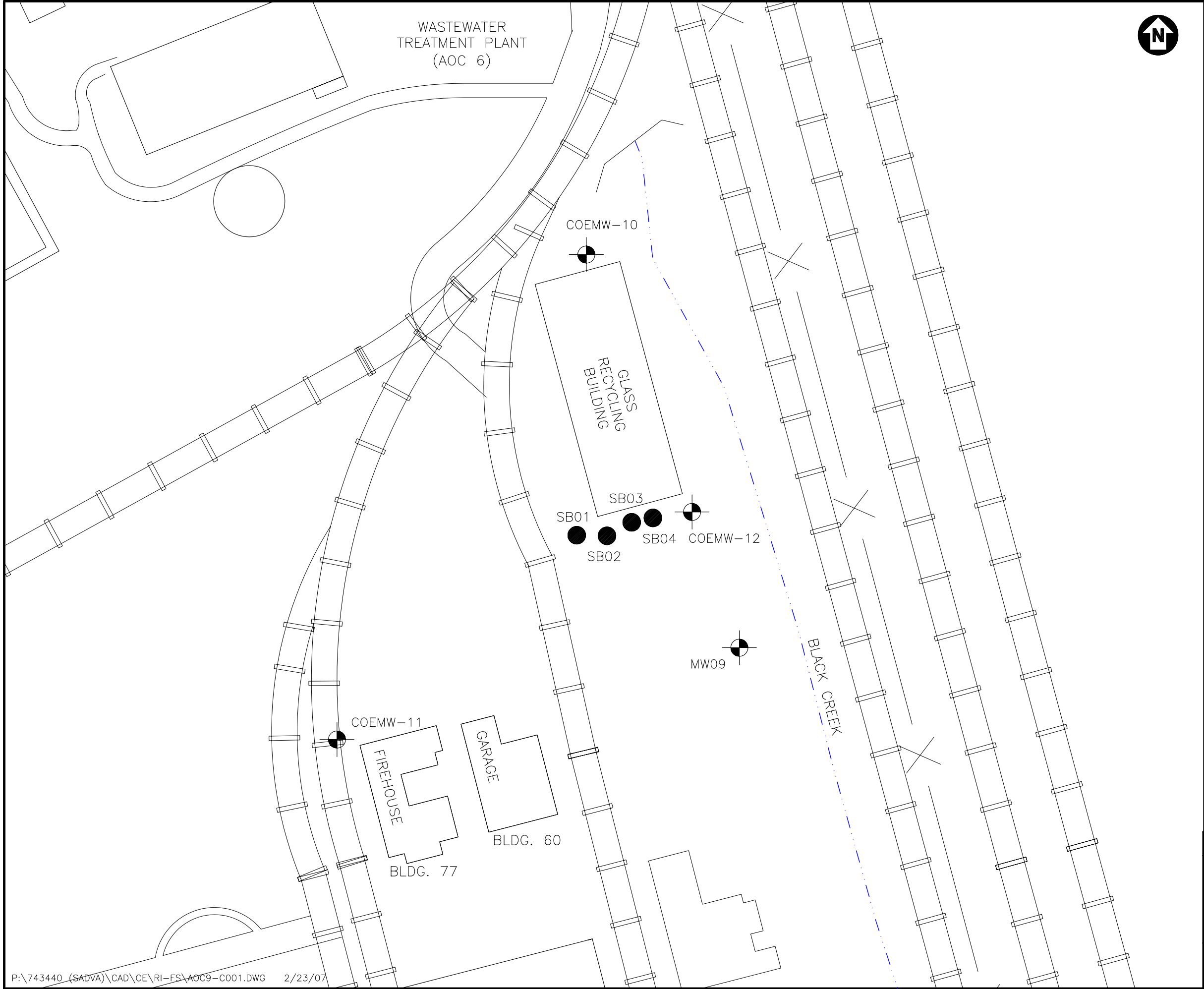


FIGURE – 3.41g

SADVA
GUILDERLAND, NEW YORK
AOC 8 SEDIMENT
SAMPLE RESULTS – ZINC

PARSONS

200 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, NY 13088, PHONE: 315-451-9560



LEGEND

SB04 SOIL BORING

MW09 EXISTING MONITORING WELL

CREEKS/ DRAINAGE DITCH

RAILROAD TRACKS

FENCING

100 50 0 100 200

Approximate Scale in Feet

SOURCE: USACE, 1999.

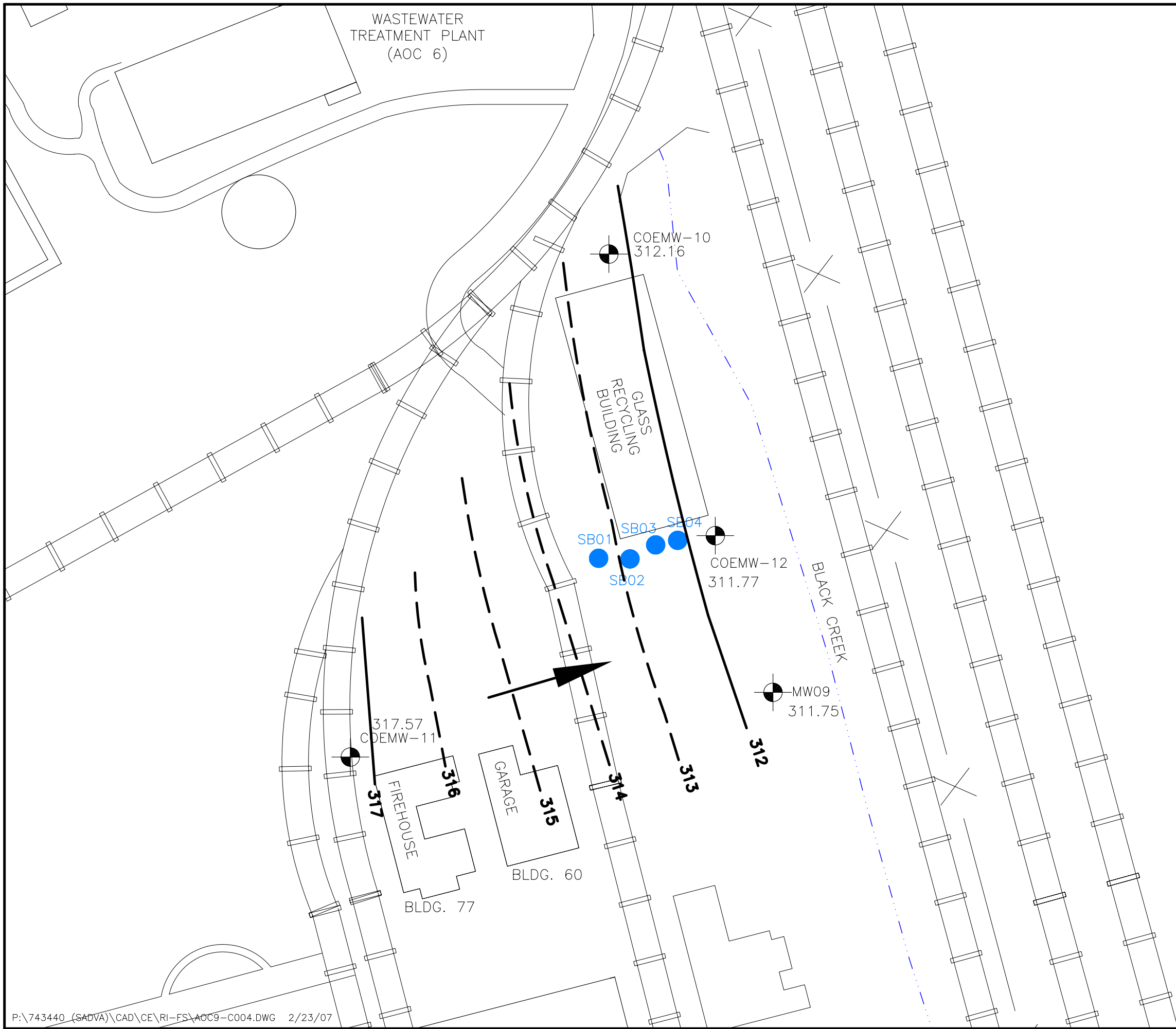
FIGURE 3.42

SADVA
GUILDERLAND, NEW YORK

AOC 9
BUILDING 60 AREA
SITE PLAN

PARSONS

290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, N.Y. 13088, PHONE: 315-451-9560



LEGEND

- SB04 SOIL BORING
- MW09 EXISTING MONITORING WELL
- CREEKS/ DRAINAGE DITCH
- RAILROAD TRACKS
- FENCING
- GROUNDWATER ELEVATION CONTOUR
- INFERRED GROUNDWATER ELEVATION CONTOUR

* ELEVATIONS IN FEET
ABOVE MEAN SEA LEVEL
AS REPORTED BY USACE
IN JANUARY 1999



DIRECTION OF
GROUNDWATER FLOW



Approximate Scale in Feet

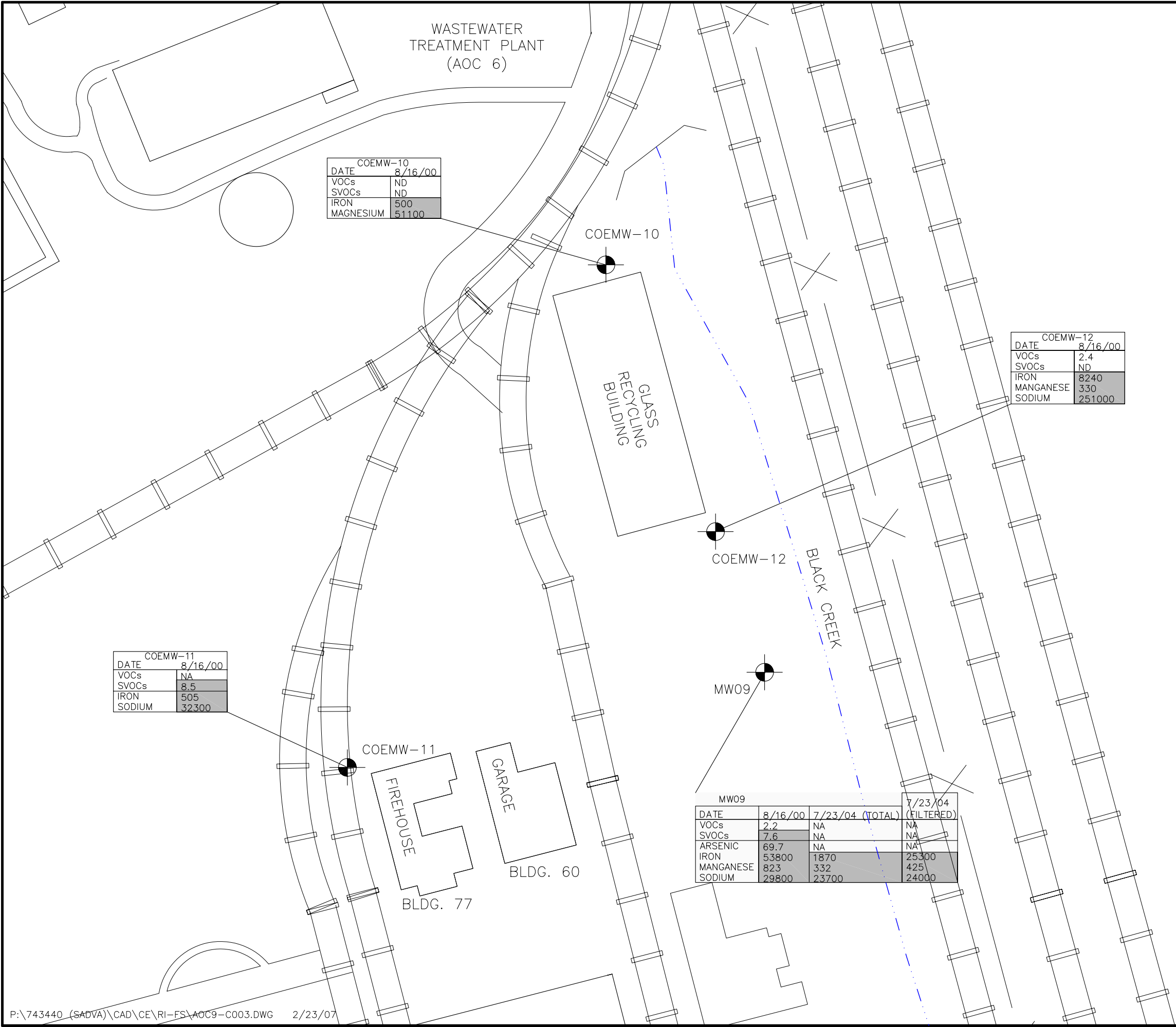
SOURCE: USACE, 1999.

FIGURE 3.44

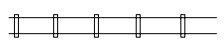
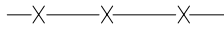
SADVA
GUILDERLAND, NEW YORK
AOC 9
BUILDING 60 AREA
GROUNDWATER ELEVATION MAP

PARSONS

290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, N.Y. 13088, PHONE: 315-451-9560



LEGEND

- MW09  EXISTING MONITORING WELL
-  CREEKS/ DRAINAGE DITCH
-  RAILROAD TRACKS
-  FENCING

NA NOT ANALYZED
ND NOT DETECTED

 373 SAMPLE CONCENTRATION ABOVE NYSDEC GROUNDWATER STANDARD/GUIDANCE VALUE AND BACKGROUND CONCENTRATIONS.

MW09		SAMPLE ID
VOCs	NA	TOTAL VOCs (ug/kg)
SVOCs	NA	TOTAL SVOCs (ug/kg)
IRON	25300	TOTAL METALS (mg/kg)
MANGANESE	425	
SODIUM	24000	

NOTE: NO PESTICIDES OR PCBs WERE DETECTED IN ANY GROUNDWATER SAMPLES.



Approximate Scale in Feet

SOURCE: USACE, 1999.

FIGURE 3.45

SADVA
GUILDERLAND, NEW YORK

AOC 9
BUILDING 60 AREA
GROUNDWATER SAMPLE RESULTS

PARSONS

290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, N.Y. 13088, PHONE: 315-451-9560

Figure 4.1
Graphical Summary of Post-remediation Non-cancer Risk for SADVA AOC 2

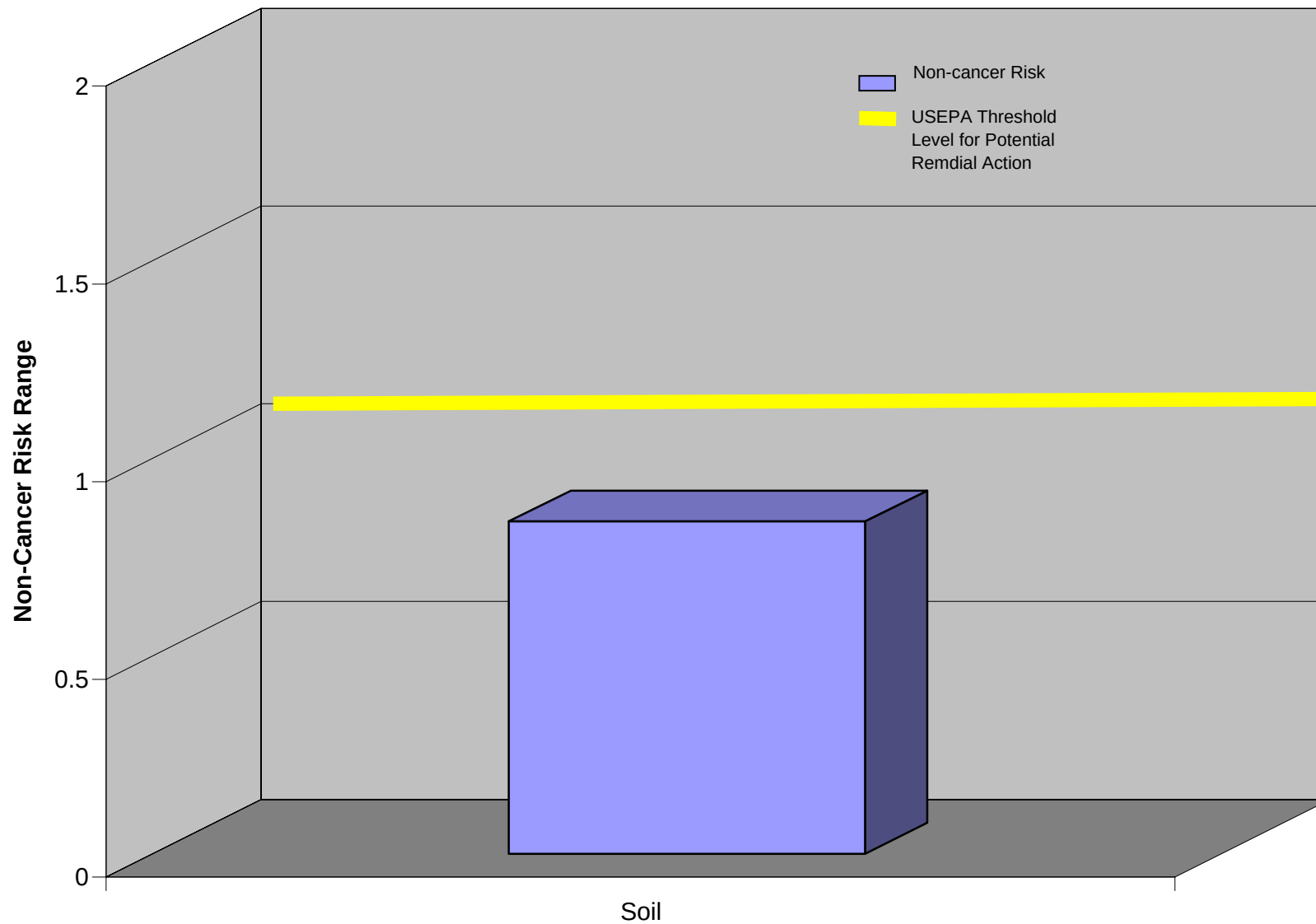


Figure 4.2
Graphical Summary of Post-Remediation Cancer Risk for SADVA AOC 2

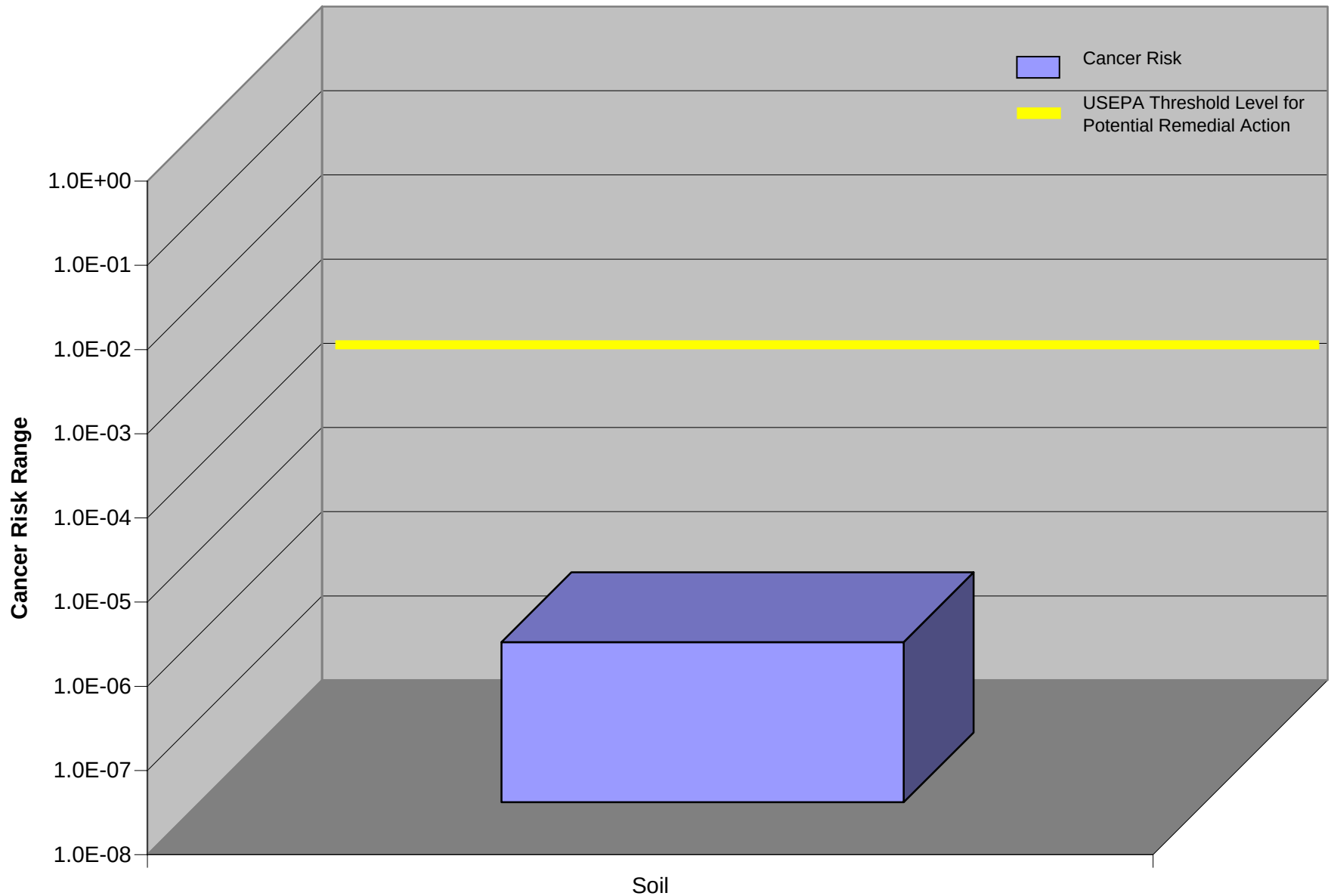


Figure 4.3
Graphical Summary of Post-Remediation Cancer Risk for SADVA AOC 3

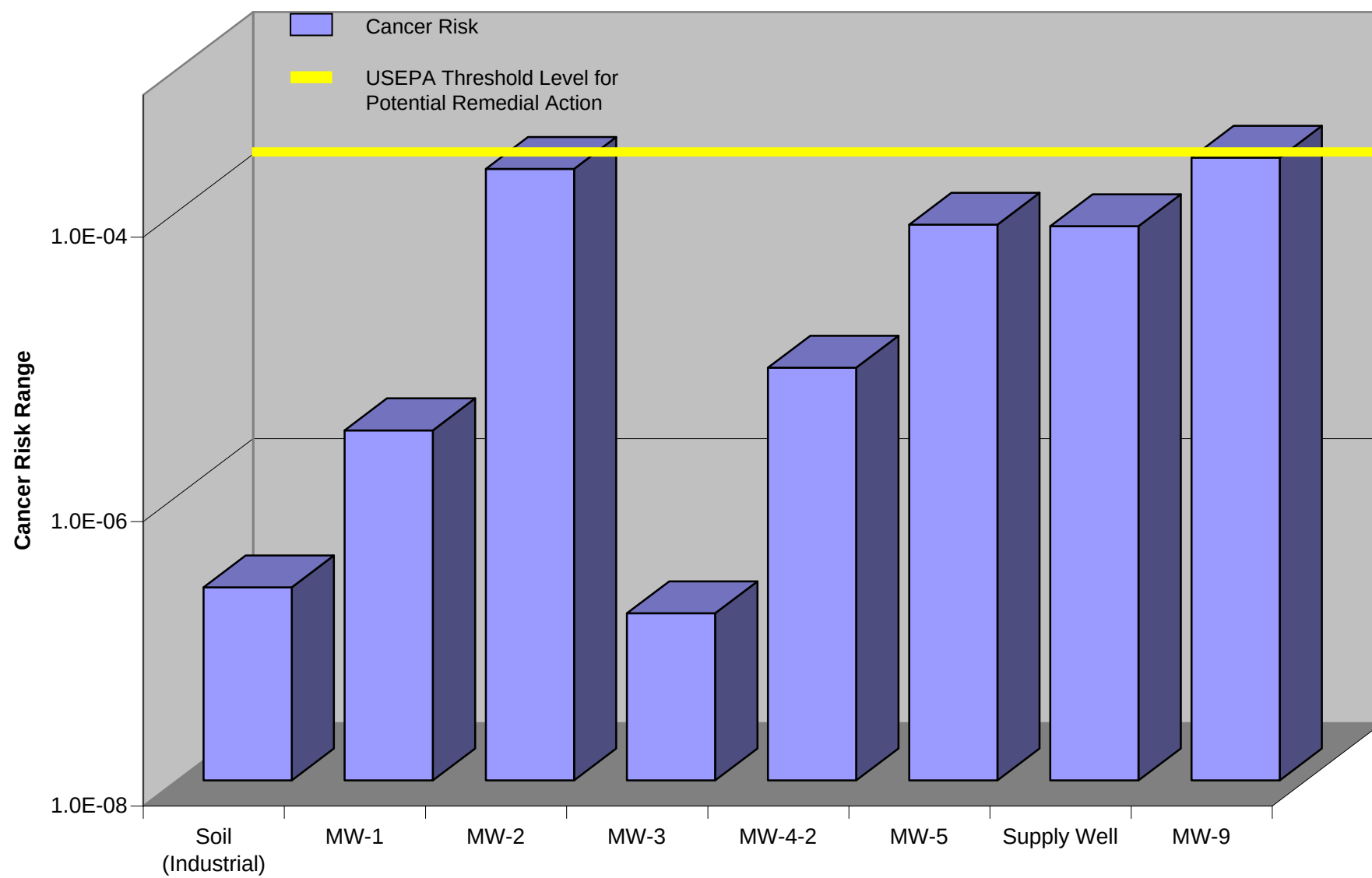


Figure 4.4
Graphical Summary of Post-Remediation Non-cancer Risk for SADVA AOC 3

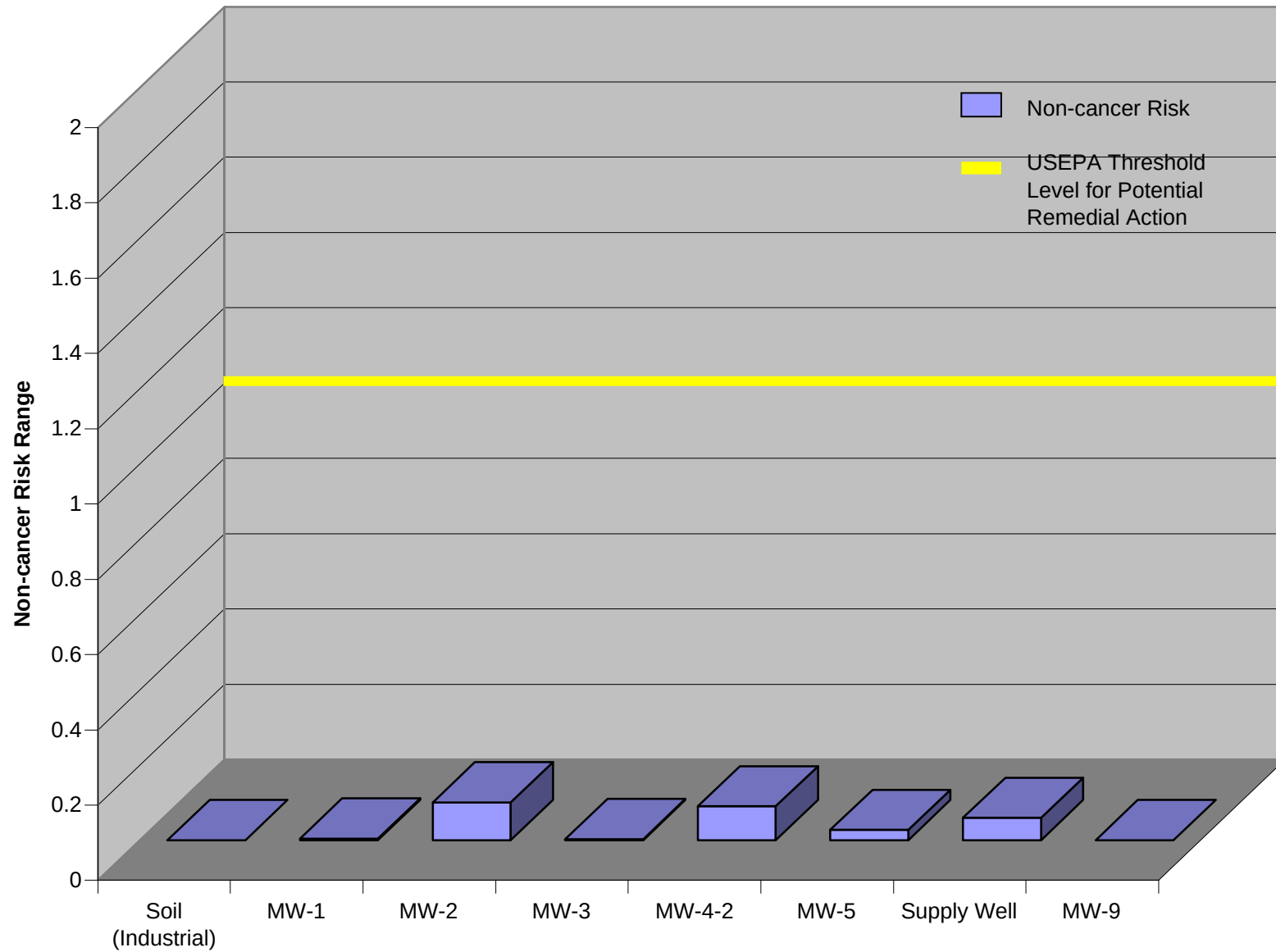


Figure 4.5
Graphical Summary of Non-cancer Risk for SADVA AOCs 1 and 7

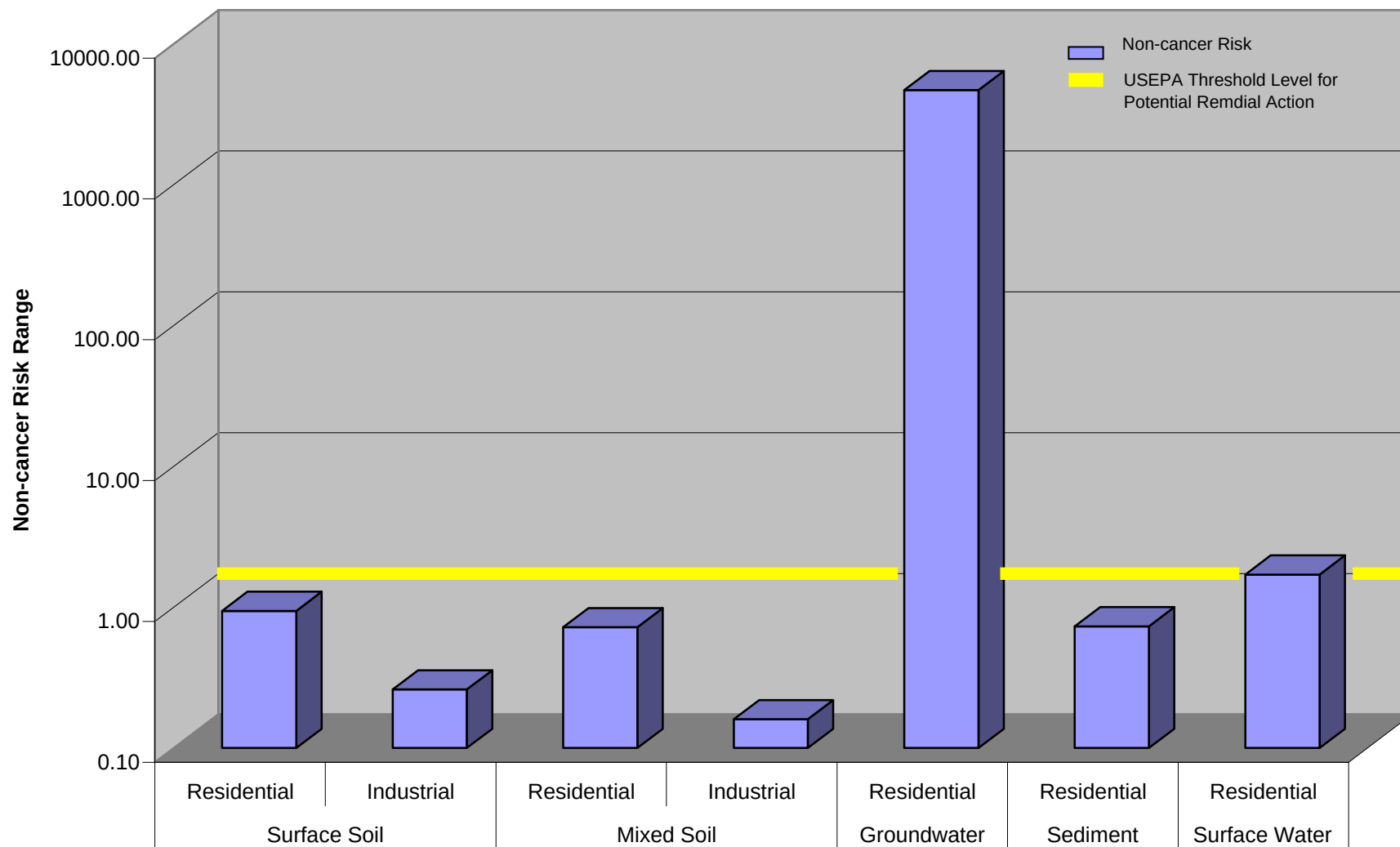


Figure 4.5a
Graphical Summary of Non-cancer Risk for Residential Wells

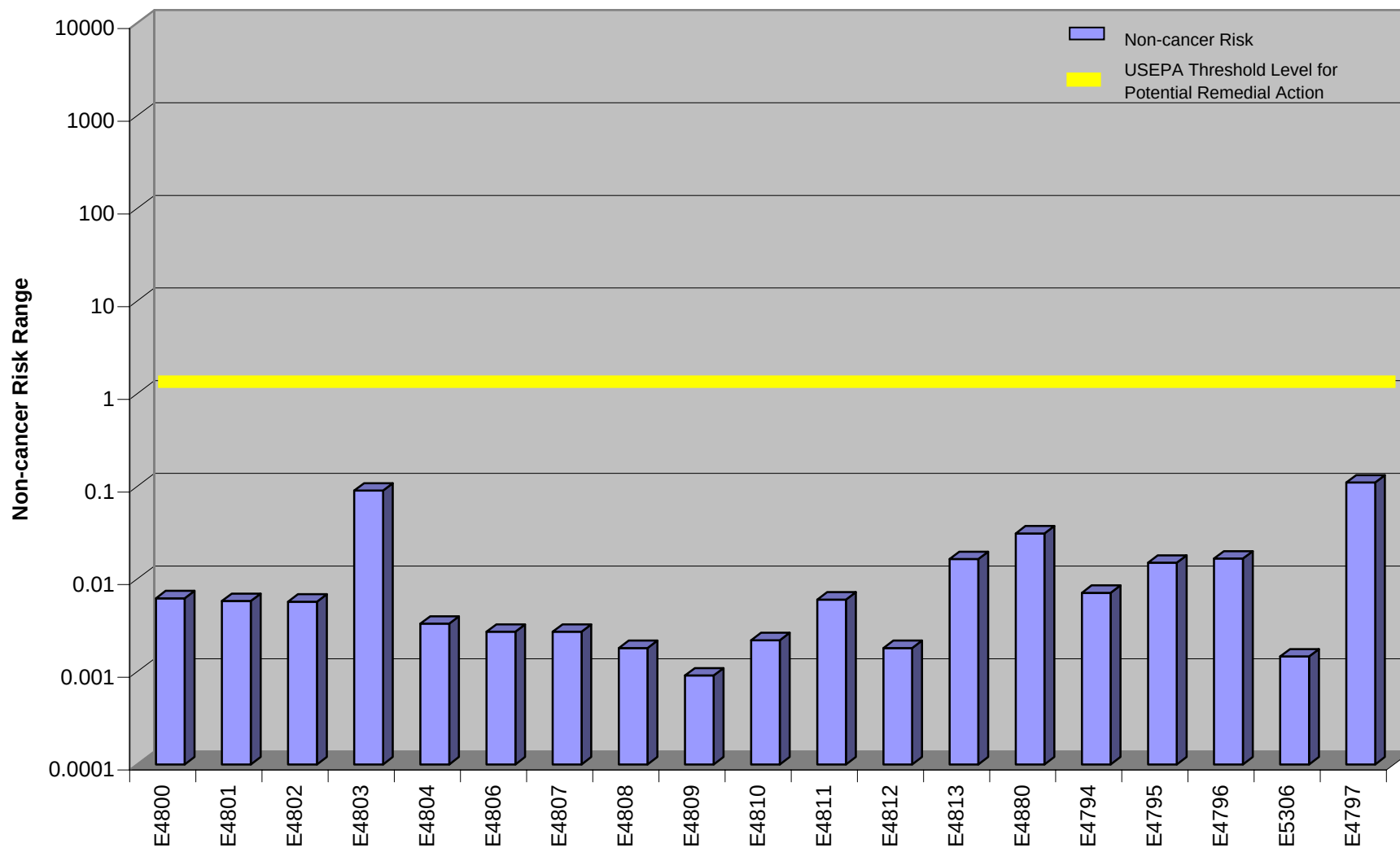


Figure 4.5b
Graphical Summary of Non-cancer Risk for Nonresidential Monitoring Wells

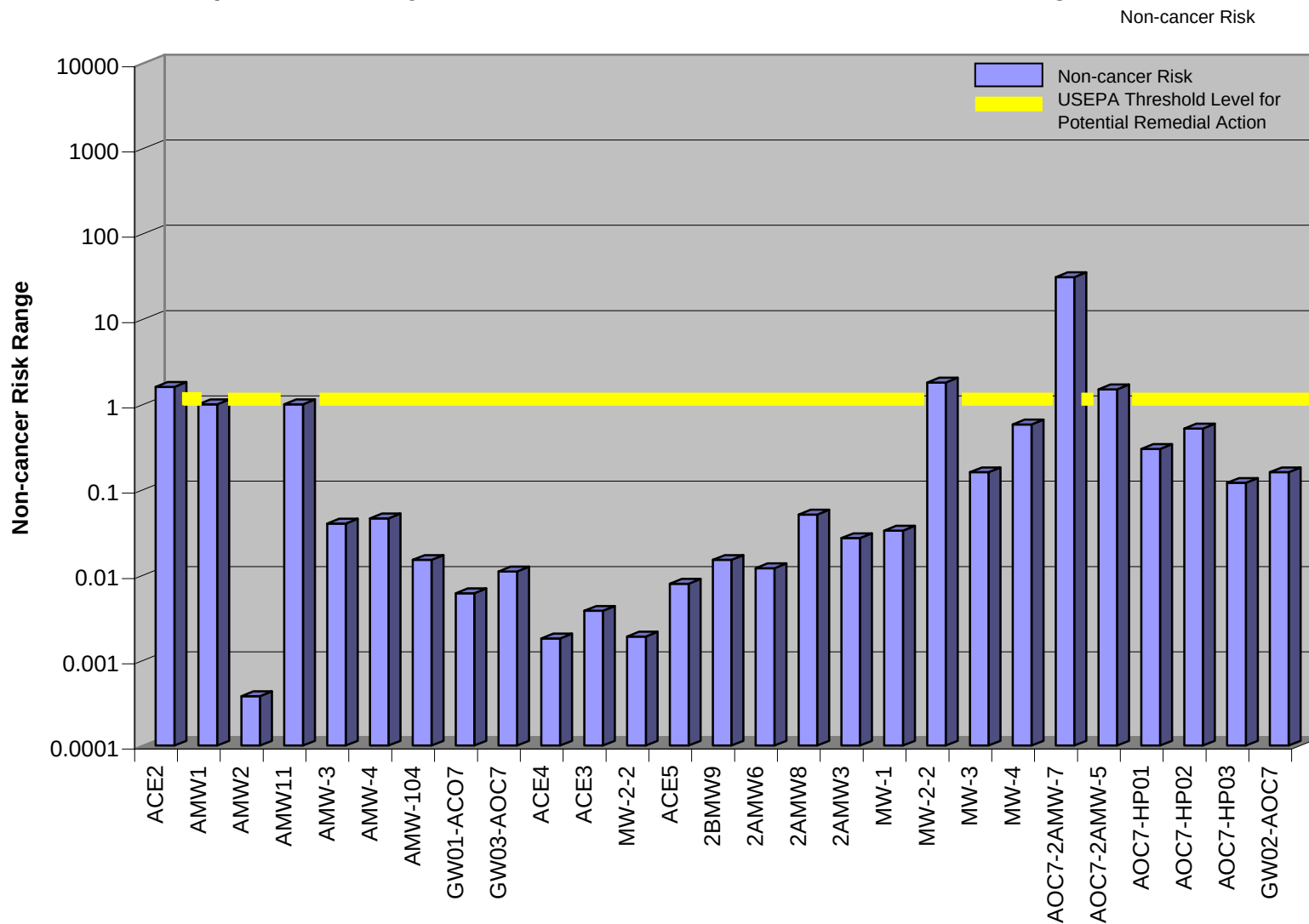


Figure 4.6
Graphical Summary of Cancer Risk for SADVA AOCs 1 and 7

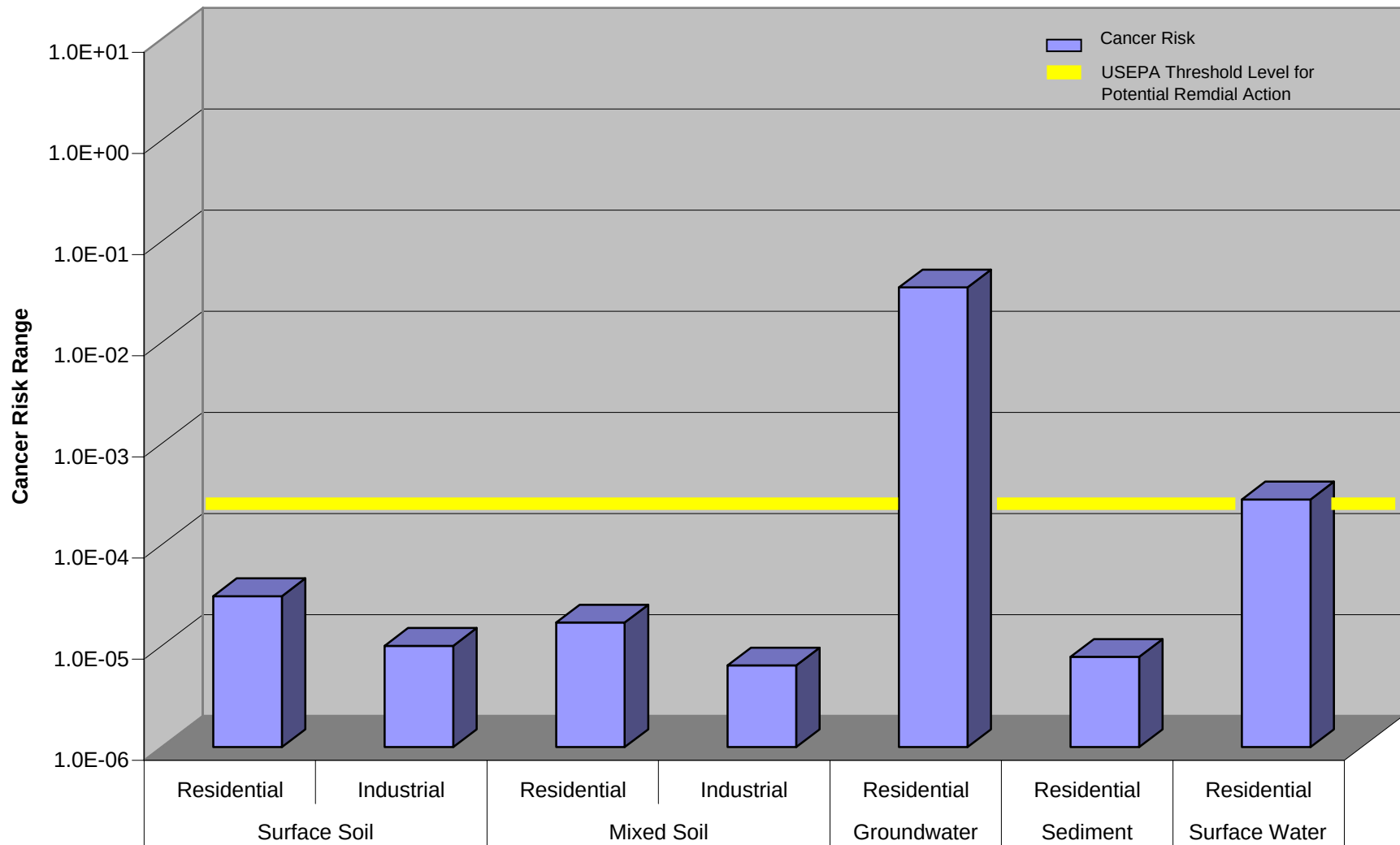


Figure 4.6a
Graphical Summary of Cancer Risk for Residential Wells

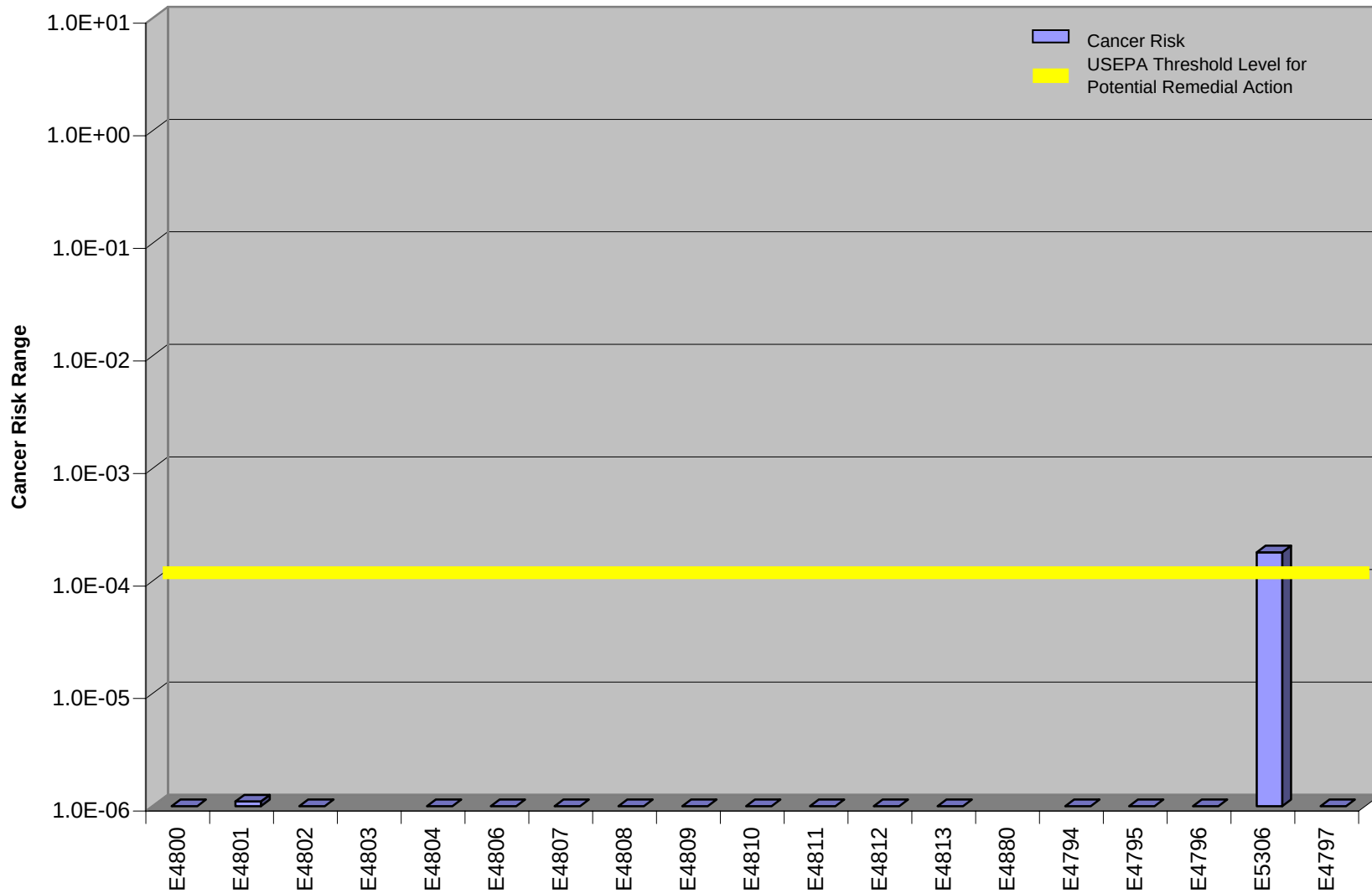


Figure 4.6b
Graphical Summary of Cancer Risk for Nonresidential Monitoring Wells

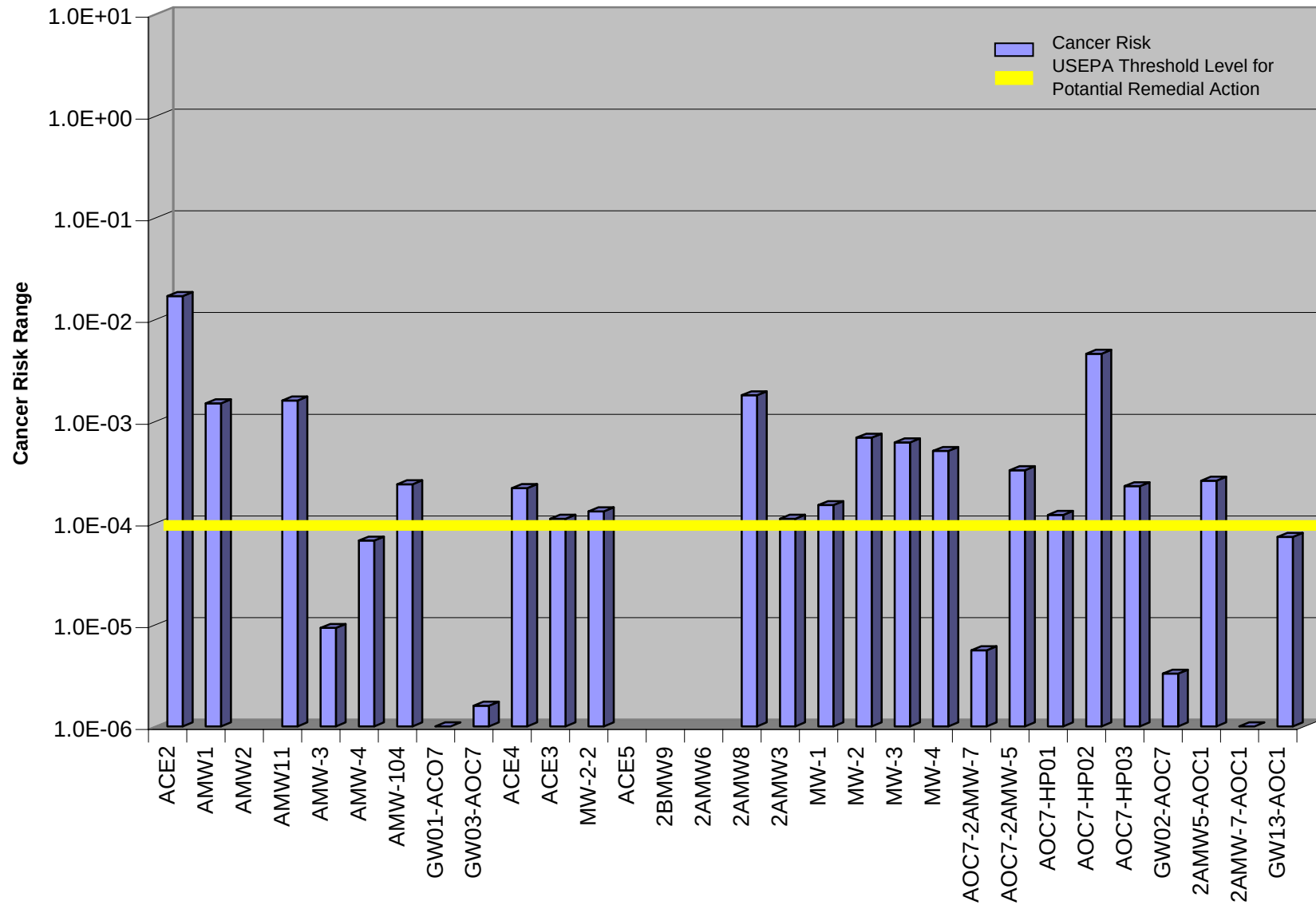


Figure 4.7
Graphical Summary of Non-cancer Risk for SADVA AOC 8

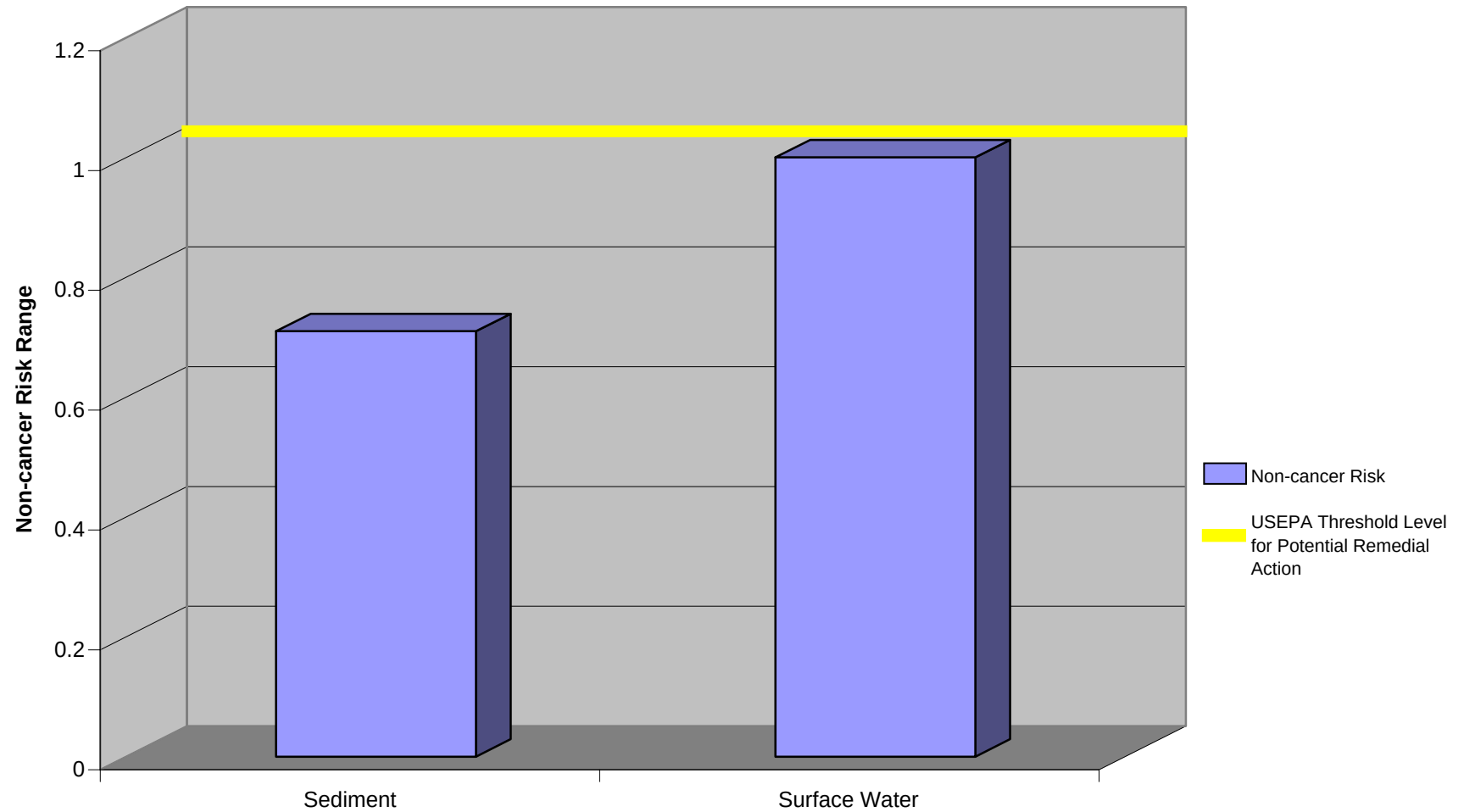


Figure 4.8
Graphical Summary of Cancer Risk for SADVA AOC 8

