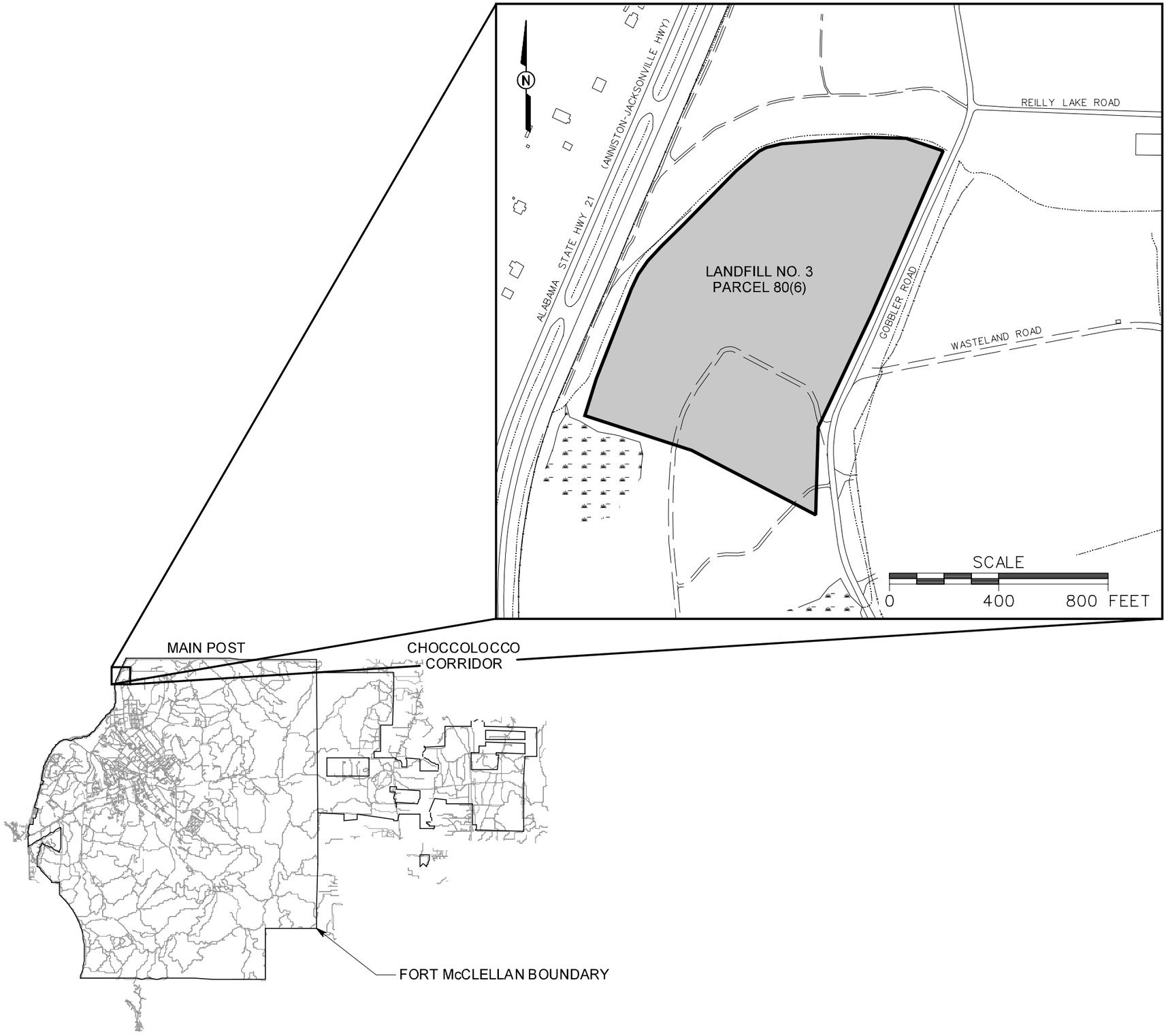
FIGURES



LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- MARSH / WETLANDS
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE

FIGURE 1-1
SITE LOCATION MAP
LANDFILL NO. 3
PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw™ Shaw Environmental, Inc.

DWG. NO.: ...\796886es.206 | PROJ. NO.: 796886
INITIATOR: J. TARR | PROJ. MGR.: J. YACOUB
DRAFT. CHCK. BY: | ENGR. CHCK. BY: S. MORAN
DATE LAST REV.: | DRAWN BY:
STARTING DATE: 04/08/04 | DRAWN BY: D. BOMAR
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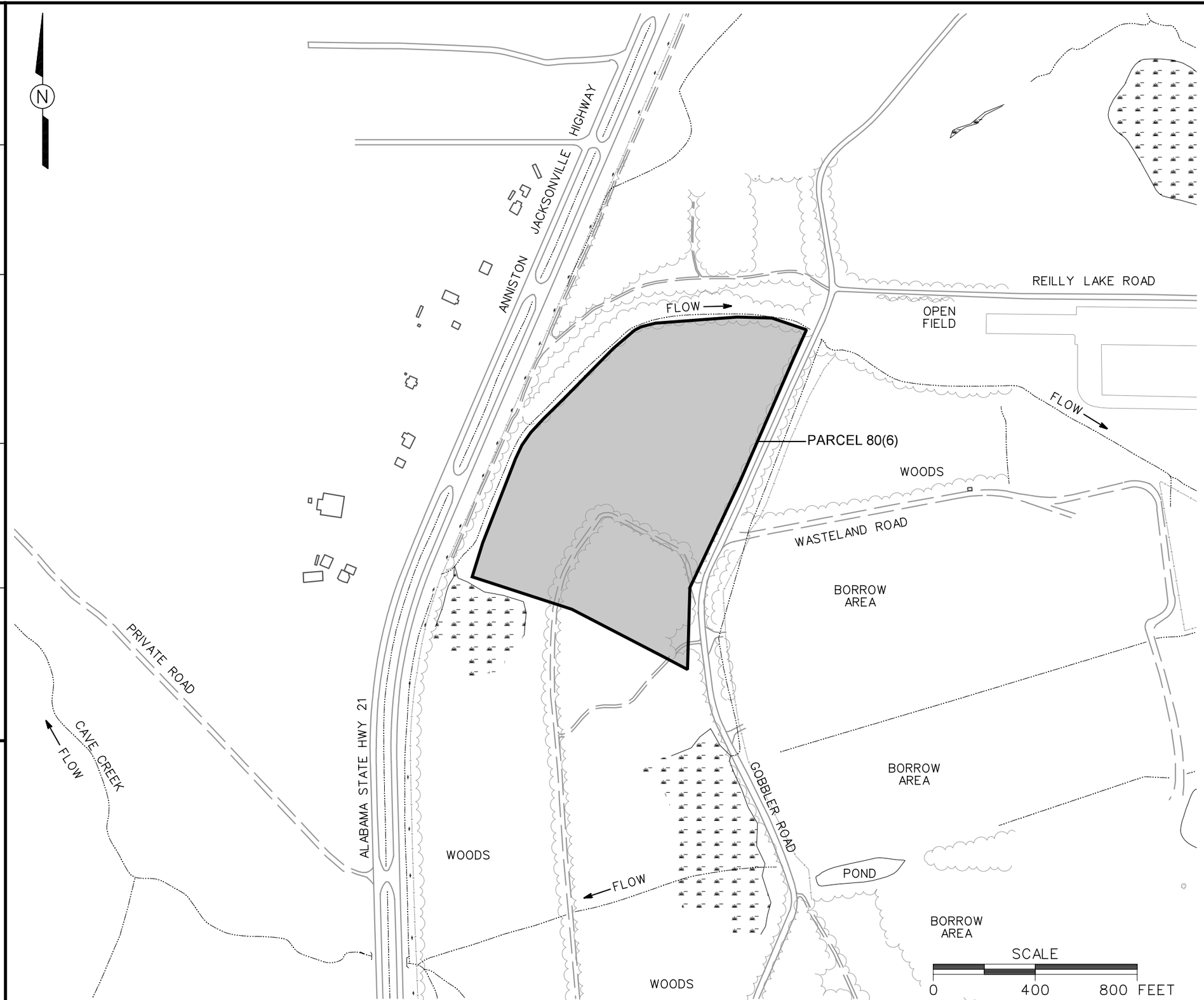

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TREES / TREELINE
- MARSH / WETLANDS
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE

FIGURE 1-2
SITE MAP
LANDFILL NO. 3
PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw™ Shaw Environmental, Inc.

DWG. NO.: ...\796886es.207
PROJ. NO.: 796886
INITIATOR: J. TARR
PROJ. MGR.: J. YACOUB
DRAFT. CHCK. BY:
ENGR. CHCK. BY: S. MORAN
STARTING DATE: 04/08/04
DRAWN BY: D. BOMAR
DATE LAST REV.:
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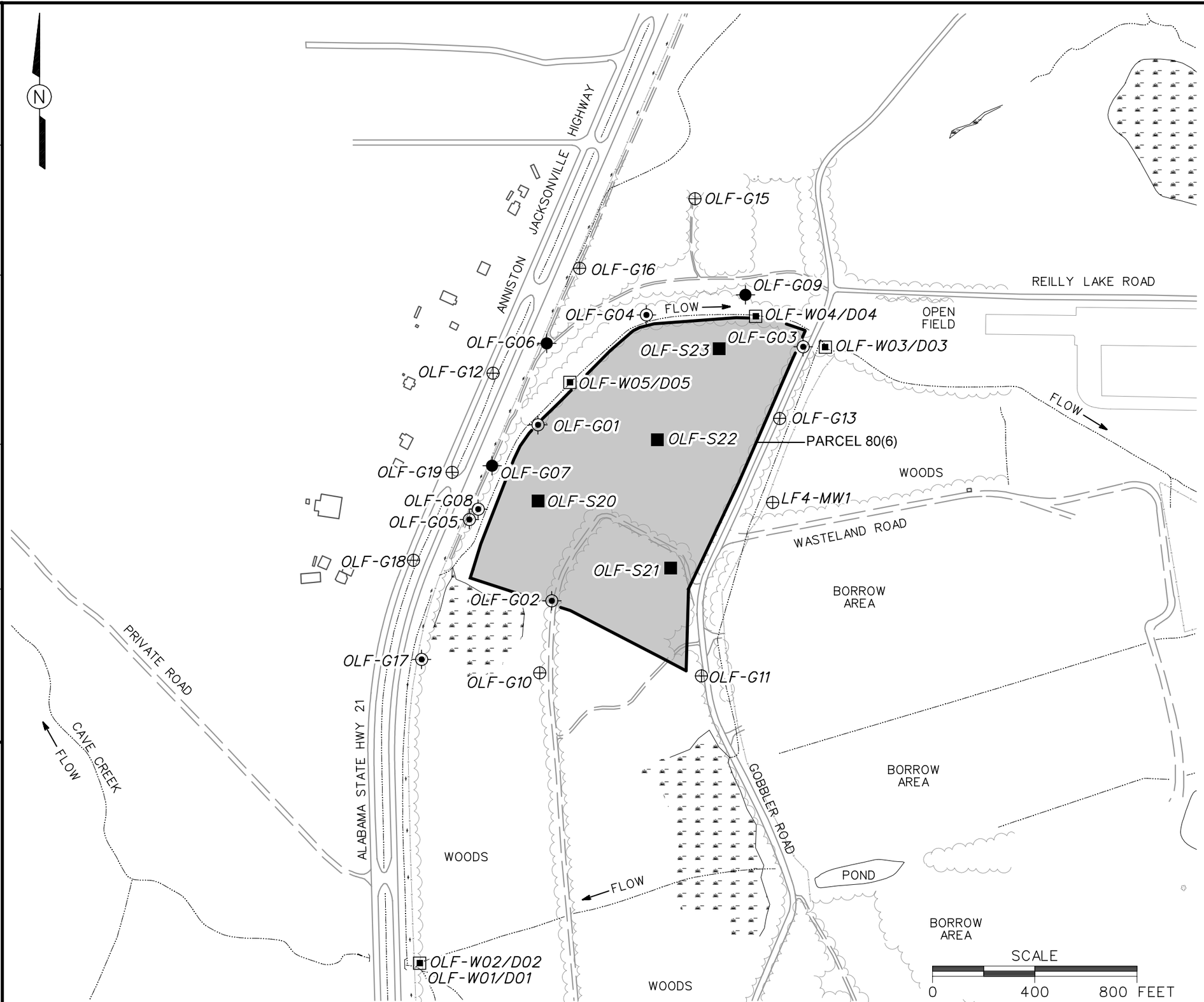

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TREES / TREELINE
- MARSH / WETLANDS
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- RESIDUUM/TRANSITION MONITORING WELL
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION
- SURFACE SOIL SAMPLE LOCATION (SAIC; 1994)
- SURFACE WATER/SEDIMENT SAMPLE LOCATION (SAIC; 1992 AND 1994)

NOTES:

1. OLF-G13 WAS ABANDONED IN MARCH 1999.
2. NO DOCUMENTATION OF SAIC SURFACE AND SUBSURFACE SOIL SAMPLE LOCATIONS OLF-S11, OLF-S13, OLF-S16, AND OLF-S17. THEREFORE, NOT SHOWN.
3. WELLS OLF-G01 THROUGH OLF-G05 (USAEHA; 1986)
4. WELLS OLF-G06 THROUGH OLF-G10 (SAIC; 1992)
5. WELLS OLF-G11 THROUGH OLF-G19 (SAIC; 1994 AND 1995)

FIGURE 2-1
MONITORING WELL AND SAMPLE LOCATION MAP
PREVIOUS INVESTIGATIONS
LANDFILL NO. 3
PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw Environmental, Inc.

DWG. NO.: ...\796886es.208	INITIATOR: J. TARR	DRAFT. CHCK. BY:	STARTING DATE: 04/08/04
PROJ. NO.: 796886	PROJ. MGR.: J. YACOUB	ENGR. CHCK. BY: S. MORAN	DATE LAST REV.:
	DRAWN BY: D. BOMAR		DRAWN BY:

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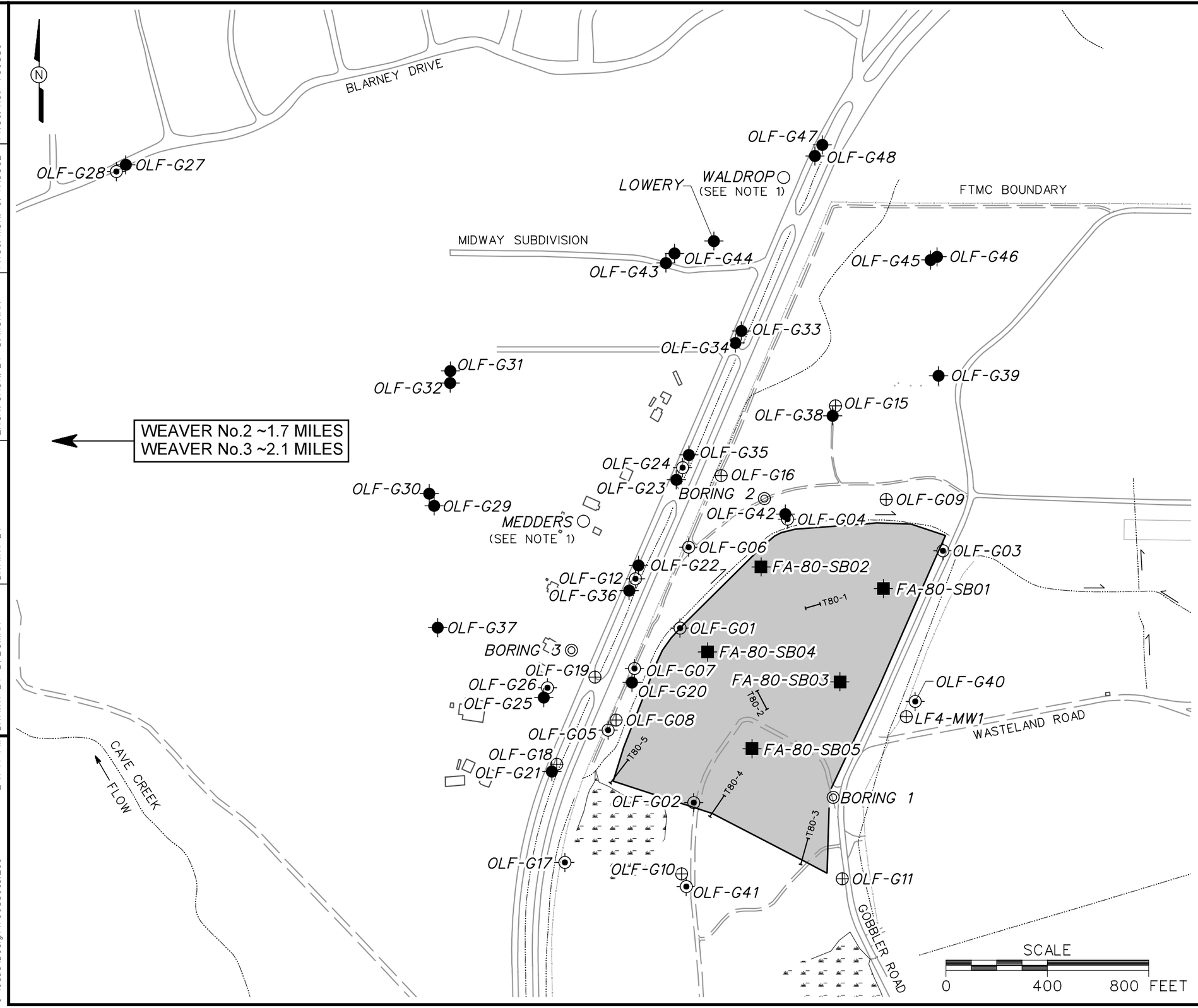

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- MARSH / WETLANDS
- PARCEL BOUNDARY
- TRENCH EXCAVATION
- SURFACE DRAINAGE / CREEK
- FENCE
- RESIDUUM/TRANSITION MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION
- DOMESTIC WELL
- DEEP BORING LOCATION
- FILL MATERIAL BORING LOCATION

NOTE:

1. APPROXIMATE LOCATION.

FIGURE 3-1
SAMPLE LOCATION MAP
LANDFILL NO. 3
PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw Environmental, Inc.

DWG. NO.: ...\796886es.209 | PROJ. NO.: 796886
INITIATOR: J. TARR | PROJ. MGR.: J. YACOUB
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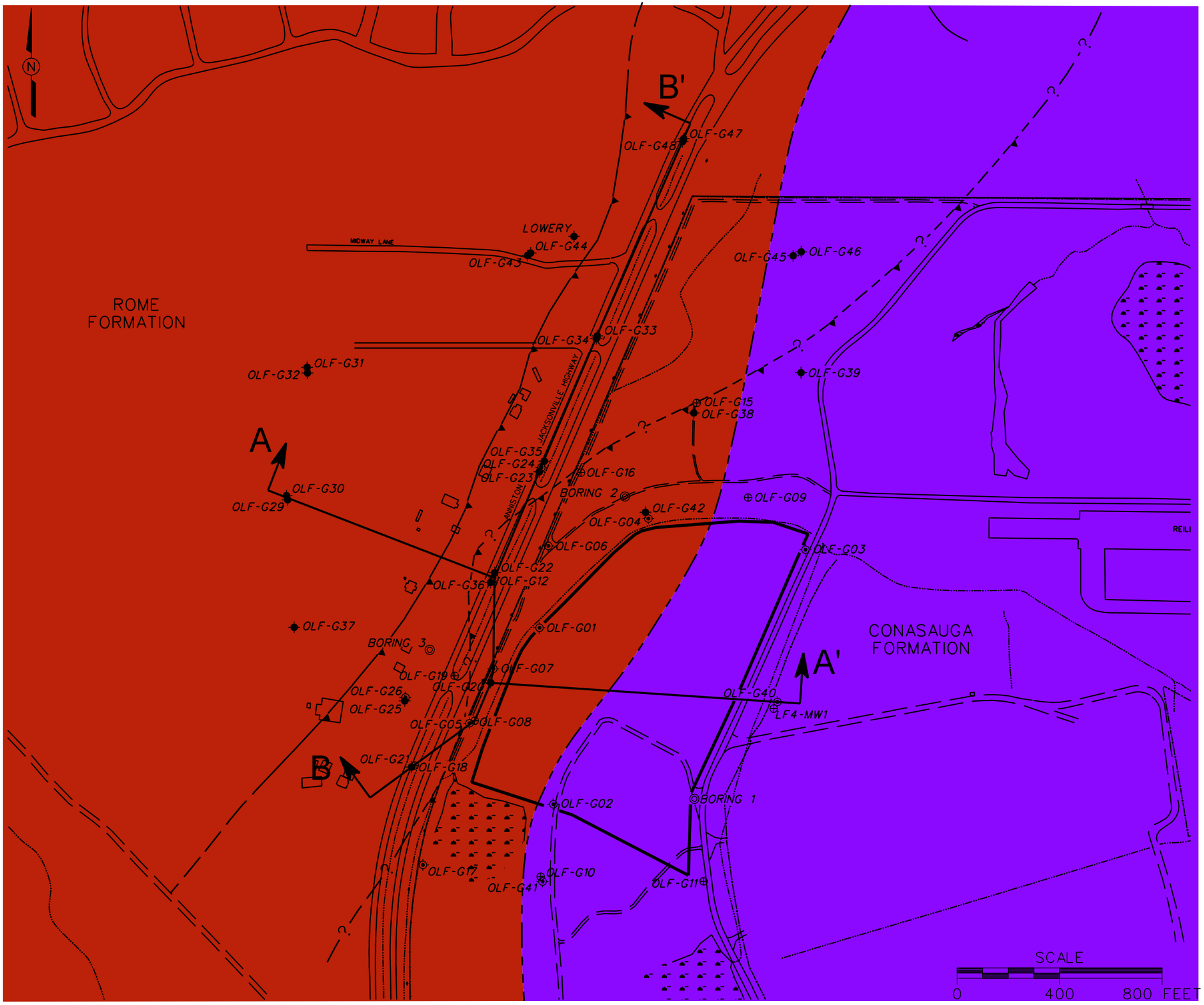

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TREES / TREELINE
- MARSH / WETLANDS
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- CONASAUGA FORMATION
- ROME FORMATION
- INFERRED THRUST FAULT
- INFERRED SPLAY FAULT
- GEOLOGIC CONTACT
- A A' CROSS SECTION LOCATION
- RESIDUUM/TRANSITION MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION
- DEEP BORING LOCATION

FIGURE 4-1
GEOLOGIC AND CROSS SECTION LOCATION MAP
LANDFILL NO. 3
PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw Environmental, Inc.

DWG. NO.: ...\796886es.205	PROJ. NO.: 796886
INITIATOR: B. HEDBERG	PROJ. MGR.: J. YACOUB
DRAFT. CHCK. BY:	ENGR. CHCK. BY: S. MORAN
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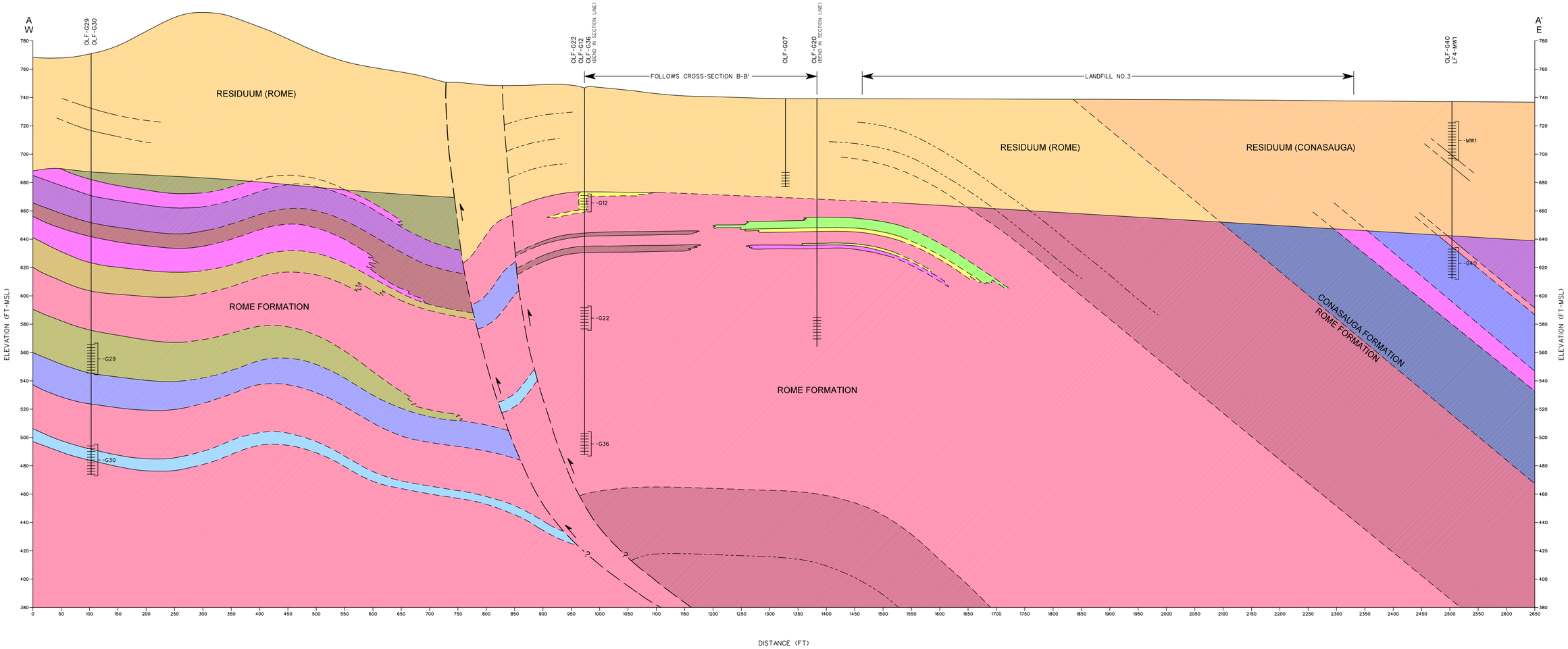

LEGEND:

- CONASAUGA FORMATION UNDIFFERENTIATED
- CONASAUGA FORMATION RESIDUUM
- ROME FORMATION UNDIFFERENTIATED
- ROME FORMATION RESIDUUM
- SANDSTONE, MUDSTONE AND SANDSTONE, INTERBEDDED
- SILTSTONE
- MUDSTONE
- CLAYSTONE
- LIMESTONE
- LIMESTONE AND DOLOMITIC LIMESTONE, INTERBEDDED
- LIMESTONE, DOLOMITIC LIMESTONE AND MUDSTONE, INTERBEDDED
- DOLOMITE
- DOLOMITE AND SILTSTONE, INTERBEDDED
- DOLOMITE AND MUDSTONE, INTERBEDDED
- DOLOMITE, MUDSTONE AND SILTSTONE, INTERBEDDED
- MUDSTONE AND SILTSTONE, INTERBEDDED
- THRUST FAULT (DASHED WHERE INFERRED)
- GEOLOGIC CONTACTS (DASHED WHERE INFERRED)
- INFERRED BEDDING

VERTICAL 0 20 40 FEET

HORIZONTAL 0 50 100 FEET

FIGURE 4-2
GEOLOGIC CROSS-SECTION A-A'
LANDFILL NO. 3
PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw Environmental, Inc.

STARTING DATE: 03/24/04 | DATE LAST REV.: | DRAFT. CHCK. BY: | INITIATOR: B. HEDBERG | DWG. NO.: \796886ee.210
DRAWN BY: D. BOMAR | DRAWN BY: | ENGR. CHCK. BY: S. MORAN | PROJ. MGR.: J. YACOUB | PROJ. NO.: 796886

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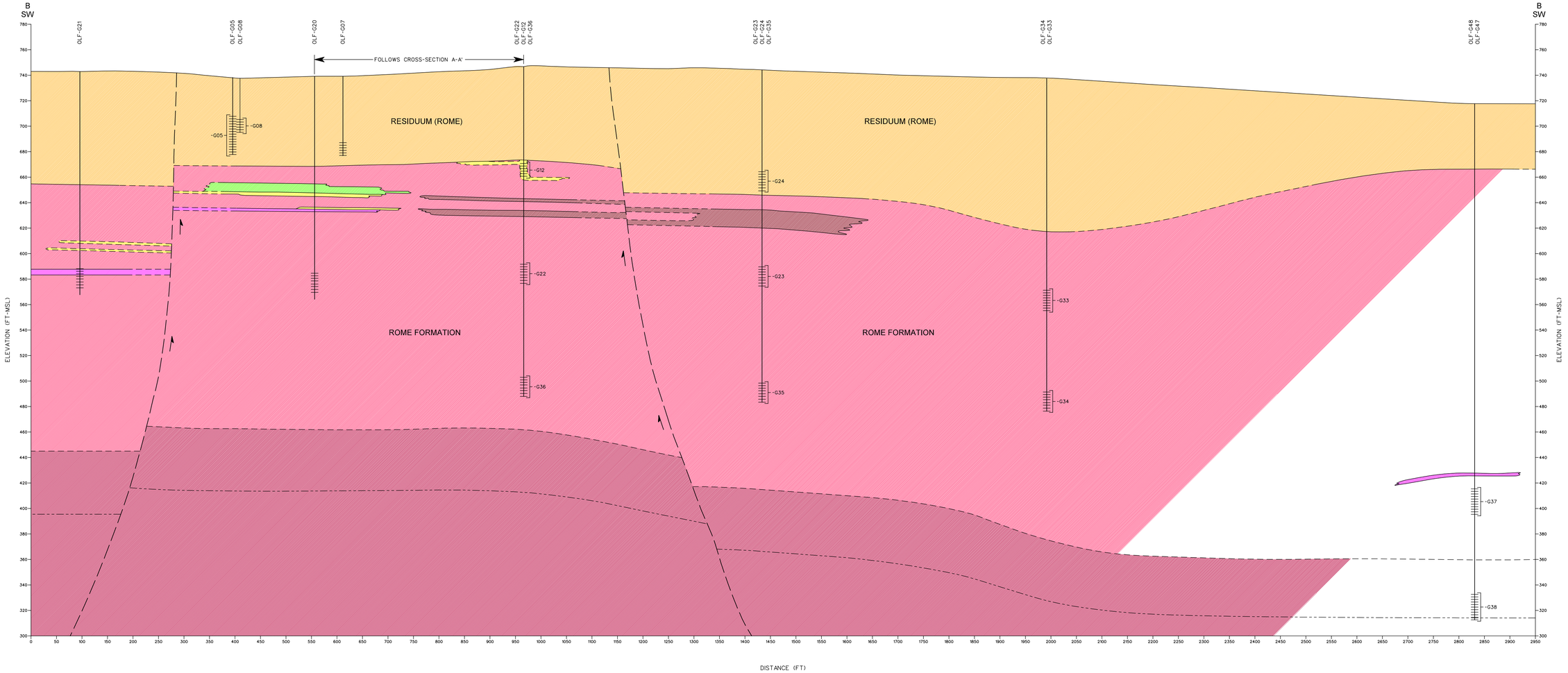

LEGEND:

- CONASAUGA FORMATION UNDIFFERENTIATED
- CONASAUGA FORMATION RESIDUUM
- ROME FORMATION UNDIFFERENTIATED
- ROME FORMATION RESIDUUM
- SANDSTONE, MUDSTONE AND SANDSTONE, INTERBEDDED
- SILTSTONE
- MUDSTONE
- CLAYSTONE
- LIMESTONE
- LIMESTONE AND DOLOMITIC LIMESTONE, INTERBEDDED
- LIMESTONE, DOLOMITIC LIMESTONE AND MUDSTONE, INTERBEDDED
- DOLOMITE
- DOLOMITE AND SILTSTONE, INTERBEDDED
- DOLOMITE AND MUDSTONE, INTERBEDDED
- DOLOMITE, MUDSTONE AND SILTSTONE, INTERBEDDED
- MUDSTONE AND SILTSTONE, INTERBEDDED
- THRUST FAULT (DASHED WHERE INFERRED)
- GEOLOGIC CONTACTS (DASHED WHERE INFERRED)
- INFERRED BEDDING

VERTICAL 0 20 40 FEET

HORIZONTAL 0 50 100 FEET

FIGURE 4-3
GEOLOGIC CROSS-SECTION B-B'
LANDFILL NO. 3
PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw Environmental, Inc.

DWG. NO.: ...\796886es.211
PROJ. NO.: 796886
INITIATOR: B. HEDBERG
PROJ. MGR.: J. YACOUB
DRAFT. CHCK. BY:
ENGR. CHCK. BY: S. MORAN
DATE LAST REV.:
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STARTING DATE: 03/24/04
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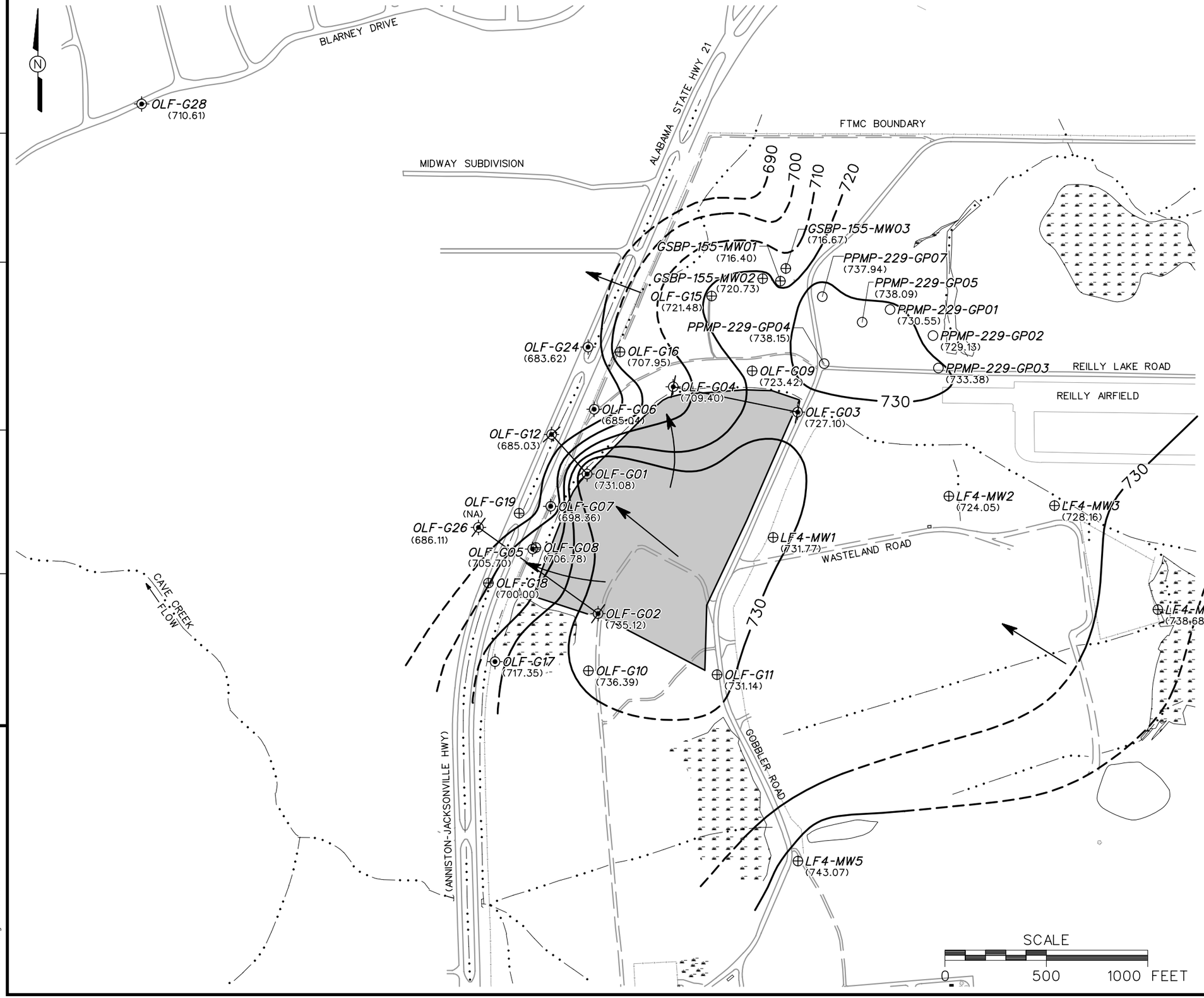

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- 720 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- (716.40) — GROUNDWATER ELEVATION (FT MSL) (MARCH 2003)
- GROUNDWATER FLOW DIRECTION
- MARSH / WETLANDS
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- RESIDUUM/TRANSITION MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- TEMPORARY RESIDUUM MONITORING WELL LOCATION
- NA — NO MEASUREMENT TAKEN
- TRANSECT FOR HORIZONTAL HYDRAULIC GRADIENT

FIGURE 4-4
GROUNDWATER ELEVATION MAP
RESIDUUM MONITORING WELLS
MARCH 2003
LANDFILL NO. 3
PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw™ Shaw Environmental, Inc.

DWG. NO.: ...\796886es.212	PROJ. NO.: 796886		
INITIATOR: N. BADON	PROJ. MGR.: J. YACOUB		
DRAFT. CHCK. BY:	ENGR. CHCK. BY: S. MORAN		
DATE LAST REV.:	DRAWN BY:		
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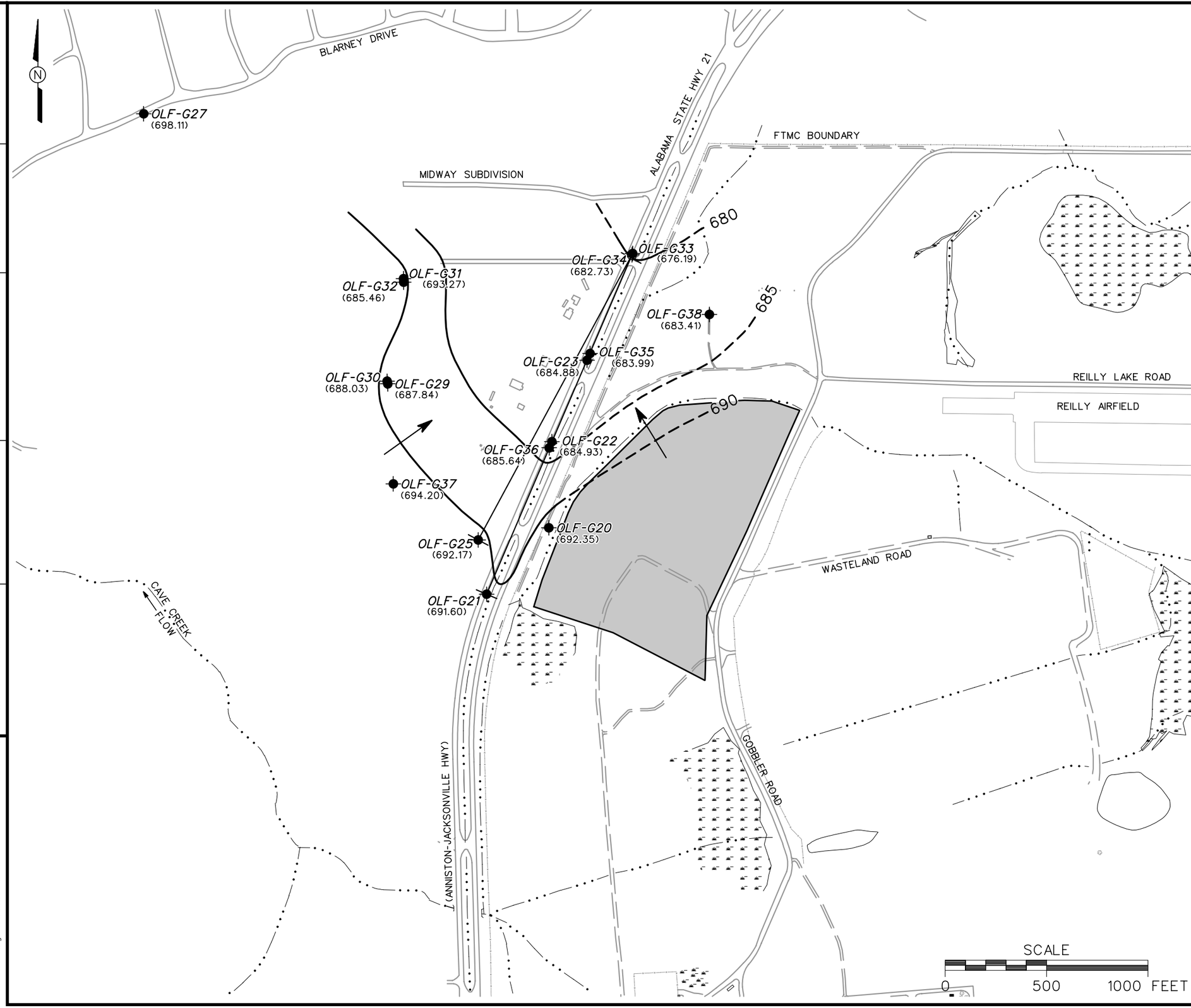

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- 680 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- (672.36) — GROUNDWATER ELEVATION (FT MSL) (MARCH 2003)
- GROUNDWATER FLOW DIRECTION
- MARSH / WETLANDS
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- BEDROCK MONITORING WELL LOCATION
- TRANSECT FOR HORIZONTAL HYDRAULIC GRADIENT

FIGURE 4-5
GROUNDWATER ELEVATION MAP
BEDROCK MONITORING WELLS
MARCH 2003
LANDFILL NO. 3
PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw Environmental, Inc.

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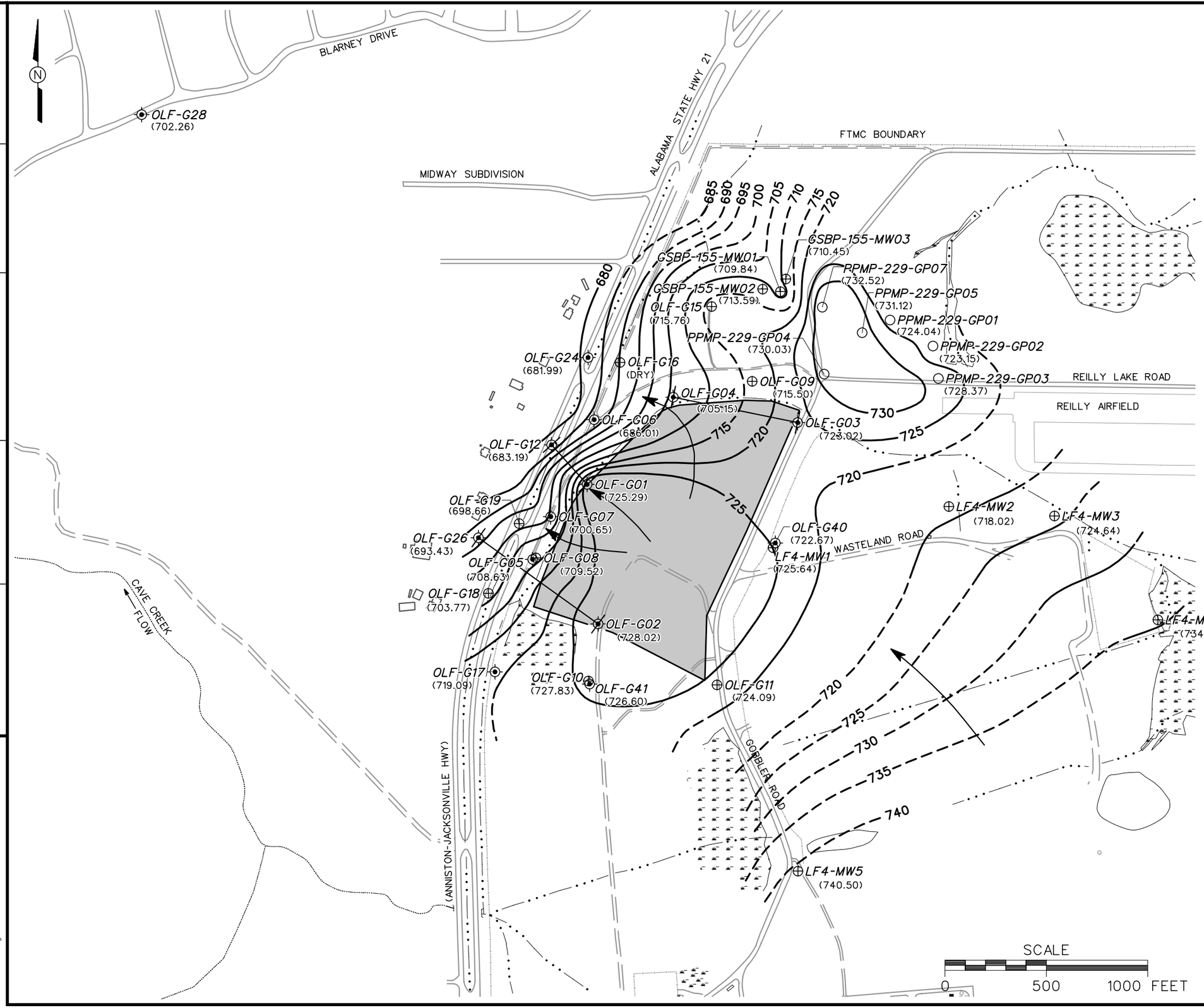


LEGEND

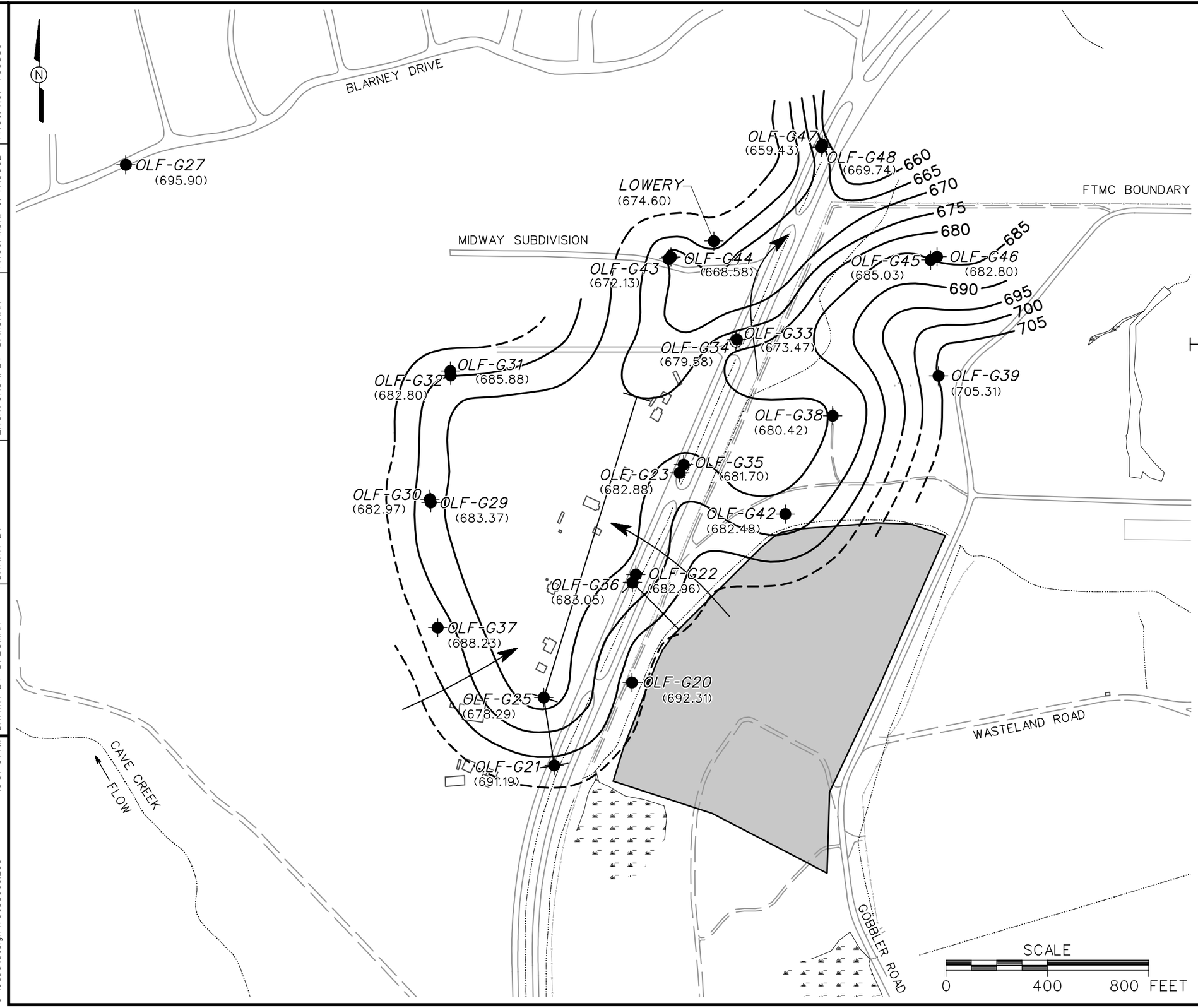
- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- 720 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- (716.40) — GROUNDWATER ELEVATION (FT MSL) (SEPTEMBER 2003)
- GROUNDWATER FLOW DIRECTION
- MARSH / WETLANDS
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- RESIDUUM/TRANSITION MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- TEMPORARY RESIDUUM MONITORING WELL LOCATION
- TRANSECT FOR HORIZONTAL HYDRAULIC GRADIENT

FIGURE 4-6
GROUNDWATER ELEVATION MAP
RESIDUUM MONITORING WELLS
SEPTEMBER 2003
LANDFILL NO. 3
PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw™ Shaw Environmental, Inc.

DRAFT. CHCK. BY: | ENGR. CHCK. BY: S. MORAN | INITIATOR: B. HEDBERG | PROJ. MGR.: J. YACOUB | DWG. NO.: ...\796886es.201 | PROJ. NO.: 796886
DATE LAST REV.: | DRAWN BY: | STARTING DATE: 04/23/04 | DRAWN BY: D. BOMAR | 4/9/2004 10:00:16 AM | dbomar c:\cadd\design\796886es.201



LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- 680 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- (672.36) — GROUNDWATER ELEVATION (FT MSL) (SEPTEMBER 2003)
- GROUNDWATER FLOW DIRECTION
- MARSH / WETLANDS
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- BEDROCK MONITORING WELL LOCATION
- TRANSECT FOR HORIZONTAL HYDRAULIC GRADIENT

FIGURE 4-7
GROUNDWATER ELEVATION MAP
BEDROCK MONITORING WELLS
SEPTEMBER 2003
LANDFILL NO. 3
PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw™ Shaw Environmental, Inc.

DWG. NO.: ...\796886es.200	DRAFT. CHCK. BY:	INITIATOR: B. HEDBERG	STARTING DATE: 03/01/04
PROJ. NO.: 796886	ENGR. CHCK. BY: S. MORAN	PROJ. MGR.: J. YACOUB	DRAWN BY: D. BOMAR
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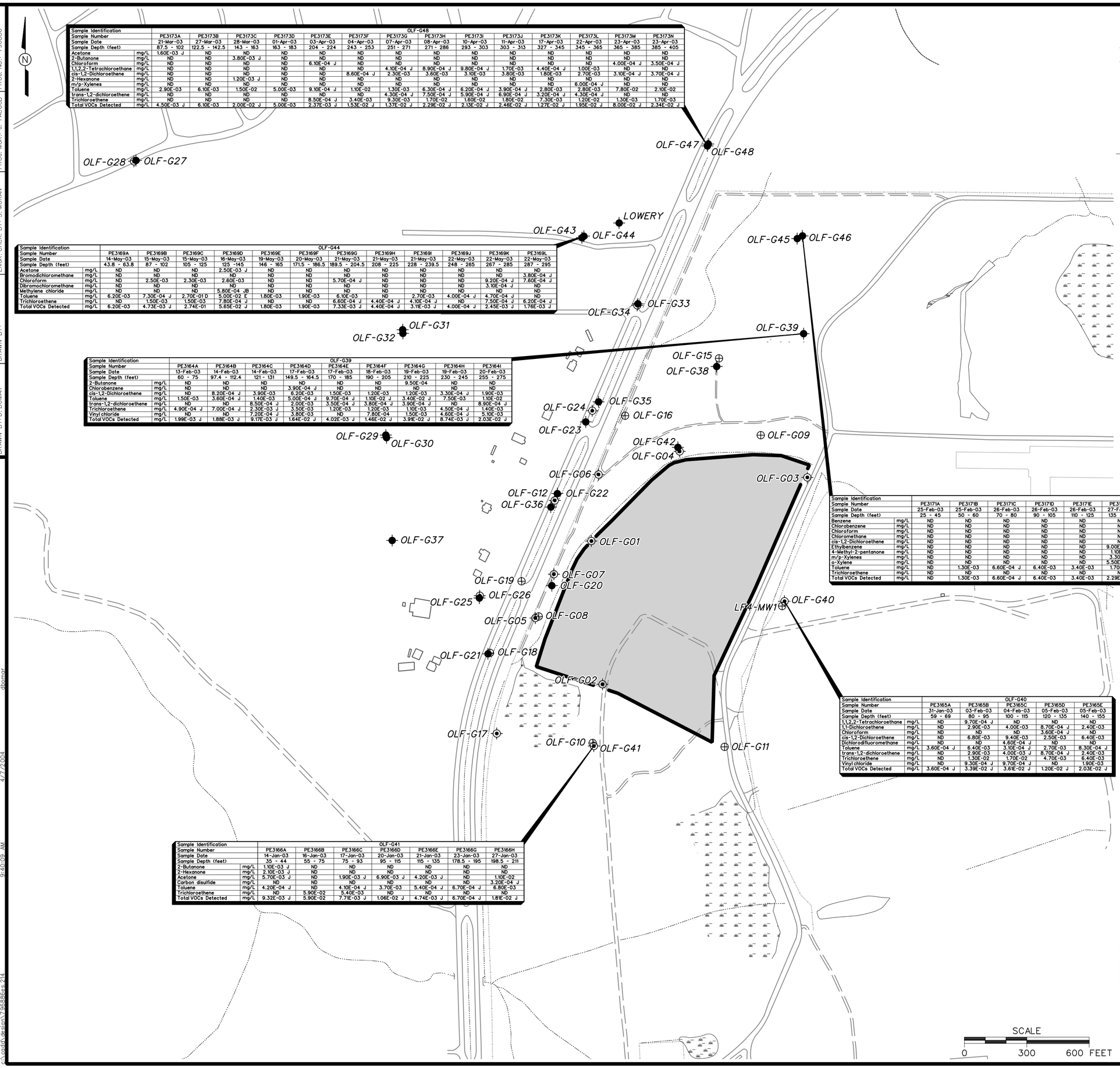


Sample Identification		OLF-G48													
Sample Number		PE3173A	PE3173B	PE3173C	PE3173D	PE3173E	PE3173F	PE3173G	PE3173H	PE3173I	PE3173J	PE3173K	PE3173L	PE3173M	PE3173N
Sample Date		21-Mar-03	27-Mar-03	28-Mar-03	01-Apr-03	03-Apr-03	04-Apr-03	07-Apr-03	08-Apr-03	10-Apr-03	11-Apr-03	17-Apr-03	22-Apr-03	23-Apr-03	23-Apr-03
Sample Depth (feet)		87.5 - 102	122.5 - 142.5	143 - 163	163 - 183	204 - 224	243 - 253	251 - 271	271 - 286	293 - 303	303 - 313	327 - 345	345 - 365	365 - 385	385 - 405
Acetone	mg/L	1.60E-03 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	mg/L	ND	ND	3.80E-03 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	mg/L	ND	ND	ND	ND	6.10E-04 J	ND	ND	ND	ND	ND	ND	ND	4.00E-04 J	3.50E-04 J
1,1,2,2-Tetrachloroethane	mg/L	ND	ND	ND	ND	ND	ND	4.10E-04 J	8.90E-04 J	9.80E-04 J	1.70E-03	4.40E-04 J	1.00E-03	ND	ND
cis-1,2-Dichloroethene	mg/L	ND	ND	ND	ND	ND	8.60E-04 J	2.30E-03	3.60E-03	3.10E-03	3.80E-03	1.80E-03	2.70E-03	3.10E-04 J	3.70E-04 J
2-Hexanone	mg/L	ND	ND	1.20E-03 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m/p-Xylenes	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.00E-04 J	ND	ND
Toluene	mg/L	2.90E-03	6.10E-03	1.50E-02	5.00E-03	9.10E-04 J	1.10E-02	1.30E-03	6.30E-04 J	6.20E-04 J	3.90E-04 J	2.80E-03	2.80E-03	7.80E-02	2.10E-02
trans-1,2-dichloroethene	mg/L	ND	ND	ND	ND	ND	ND	4.30E-04 J	7.50E-04 J	5.90E-04 J	6.90E-04 J	3.20E-04 J	4.30E-04 J	ND	ND
Trichloroethene	mg/L	ND	ND	ND	ND	8.50E-04 J	3.40E-03	9.30E-03	1.70E-02	1.60E-02	1.80E-02	7.30E-03	1.20E-02	1.30E-03	1.70E-03
Total VOCs Detected	mg/L	4.50E-03 J	6.10E-03	2.00E-02 J	5.00E-03	2.37E-03 J	1.53E-02 J	1.37E-02 J	2.29E-02 J	2.13E-02 J	2.46E-02 J	1.27E-02 J	1.95E-02 J	8.00E-02 J	2.34E-02 J

Sample Identification		OLF-G44											
Sample Number		PE3169A	PE3169B	PE3169C	PE3169D	PE3169E	PE3169F	PE3169G	PE3169H	PE3169I	PE3169J	PE3169K	PE3169L
Sample Date		14-May-03	15-May-03	15-May-03	16-May-03	19-May-03	20-May-03	21-May-03	21-May-03	21-May-03	22-May-03	22-May-03	22-May-03
Sample Depth (feet)		43.8 - 63.8	87 - 102	105 - 125	125 -145	146 - 165	171.5 - 186.5	189.5 - 204.5	208 - 225	228 - 239.5	248 - 265	267 - 285	287 - 295
Acetone	mg/L	ND	ND	ND	2.50E-03 J	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.80E-04 J
Chloroform	mg/L	ND	2.50E-03	2.30E-03	2.60E-03	ND	ND	5.70E-04 J	ND	ND	ND	9.20E-04 J	7.60E-04 J
Dibromochloromethane	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.10E-04 J	ND
Methylene chloride	mg/L	ND	ND	ND	5.80E-04 JB	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	mg/L	6.20E-03	7.30E-04 J	2.70E-01 D	5.00E-02 E	1.80E-03	1.90E-03	6.10E-03	ND	2.70E-03	4.00E-04 J	4.70E-04 J	ND
Trichloroethene	mg/L	ND	1.50E-03	1.50E-03	7.80E-04 J	ND	ND	6.60E-04 J	4.40E-04 J	4.10E-04 J	ND	7.50E-04 J	6.20E-04 J
Total VOCs Detected	mg/L	6.20E-03	4.73E-03 J	2.74E-01	5.65E-02 J	1.80E-03	1.90E-03	7.33E-03 J	4.40E-04 J	3.11E-03 J	4.00E-04 J	2.45E-03 J	1.76E-03 J

Sample Identification		OLF-G39								
Sample Number		PE3164A	PE3164B	PE3164C	PE3164D	PE3164E	PE3164F	PE3164G	PE3164H	PE3164I
Sample Date		13-Feb-03	14-Feb-03	14-Feb-03	17-Feb-03	17-Feb-03	18-Feb-03	19-Feb-03	19-Feb-03	20-Feb-03
Sample Depth (feet)		60 - 75	97.4 - 112.4	121 - 131	149.5 - 164.5	170 - 185	190 - 205	210 - 225	230 - 245	255 - 275
2-Butanone	mg/L	ND	ND	ND	ND	ND	ND	9.50E-04	ND	ND
Chlorobenzene	mg/L	ND	ND	ND	3.90E-04 J	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	mg/L	ND	8.20E-04 J	3.90E-03	6.20E-03	1.50E-03	1.20E-03	1.20E-03	3.30E-04 J	1.90E-03
Toluene	mg/L	1.50E-03	3.60E-04 J	1.40E-03	5.00E-04 J	9.70E-04 J	1.10E-02 J	3.40E-02 J	7.50E-03	1.10E-02
trans-1,2-dichloroethene	mg/L	ND	ND	8.50E-04 J	2.00E-03	3.50E-04 J	3.80E-04 J	3.90E-04 J	ND	8.90E-04 J
Trichloroethene	mg/L	4.90E-04 J	7.00E-04 J	2.30E-03 J	3.50E-03	1.20E-03	1.20E-03	1.10E-03	4.50E-04 J	1.40E-03
Vinyl chloride	mg/L	ND	ND	7.20E-04 J	3.80E-03	ND	7.80E-04	1.50E-03	4.60E-04 J	5.10E-03
Total VOCs Detected	mg/L	1.99E-03 J	1.88E-03 J	9.17E-03 J	1.64E-02 J	4.02E-03 J	1.46E-02 J	3.91E-02 J	8.74E-03 J	2.03E-02 J

Sample Identification		OLF-G46											
Sample Number		PE3171A	PE3171B	PE3171C	PE3171D	PE3171E	PE3171F	PE3171G	PE3171H	PE3171I	PE3171J	PE3171K	PE3171L
Sample Date		25-Feb-03	25-Feb-03	26-Feb-03	26-Feb-03	26-Feb-03	27-Feb-03	28-Feb-03	06-Mar-03	07-Mar-03	10-Mar-03	11-Mar-03	12-Mar-03
Sample Depth (feet)		25 - 45	50 - 60	70 - 80	90 - 105	110 - 125	135 - 145	150 - 165	163 - 185	183 - 205	203 - 225	230 - 250	235 - 250
Benzene	mg/L	ND	ND	ND	ND	ND	ND	3.10E-04 J	ND	ND	ND	ND	ND
Chlorobenzene	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.40E-03	ND
Chloroform	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.30E-04 J	ND
Chloromethane	mg/L	ND	ND	ND	ND	ND	ND	8.30E-04 J	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	mg/L	ND	ND	ND	ND	ND	ND	ND	3.80E-04 J	ND	ND	ND	ND
Ethylbenzene	mg/L	ND	ND	ND	ND	ND	9.00E-04 J	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	mg/L	ND	ND	ND	ND	ND	1.10E-03	ND	ND	ND	ND	ND	ND
m/p-Xylenes	mg/L	ND	ND	ND	ND	ND	3.30E-03	9.40E-04 J	ND	ND	ND	ND	ND
o-Xylene	mg/L	ND	ND	ND	ND	ND	5.50E-04 J	ND	ND	ND	ND	ND	ND
Toluene	mg/L	ND	1.30E-03	6.60E-04 J	6.40E-03	3.40E-03	1.70E-02	1.30E-02	6.00E-04 J	4.00E-04	ND	2.20E-03	3.80E-04 J
Trichloroethene	mg/L	ND	ND	ND	ND	ND	ND	ND	4.00E-04 J	ND	ND	6.30E-04 J	ND
Total VOCs Detected	mg/L	ND	1.30E-03	6.60E-04 J	6.40E-03	3.40E-03	2.29E-02 J	1.51E-02 J	1.38E-03 J	4.00E-04	ND	4.56E-03 J	3.80E-04 J

Sample Identification		OLF-G40				
Sample Number		PE3165A	PE3165B	PE3165C	PE3165D	PE3165E
Sample Date		31-Jan-03	03-Feb-03	04-Feb-03	05-Feb-03	05-Feb-03
Sample Depth (feet)		59 - 69	80 - 95	100 - 115	120 - 135	140 - 155
1,1,2,2-Tetrachloroethane	mg/L	ND	9.70E-04 J	ND	ND	ND
1,1-Dichloroethene	mg/L	ND	2.90E-03	4.00E-03	8.70E-04 J	2.40E-03
Chloroform	mg/L	ND	ND	ND	3.60E-04 J	ND
cis-1,2-Dichloroethene	mg/L	ND	6.80E-03	9.40E-03	2.50E-03	6.40E-03
Dichlorodifluoromethane	mg/L	ND	ND	4.60E-04 J	ND	ND
Toluene	mg/L	3.60E-04 J	6.40E-03	3.10E-04 J	2.70E-03	8.30E-04 J
trans-1,2-dichloroethene	mg/L	ND	2.90E-03	4.00E-03 J	8.70E-04 J	2.40E-03
Trichloroethene	mg/L	ND	1.30E-02	1.70E-02	4.70E-03	6.40E-03
Vinyl chloride	mg/L	ND	9.30E-04 J	9.70E-04 J	ND	1.90E-03
Total VOCs Detected	mg/L	3.60E-04 J	3.39E-02 J	3.61E-02 J	1.20E-02 J	2.03E-02 J

Sample Identification		OLF-G41						
Sample Number		PE3166A	PE3166B	PE3166C	PE3166D	PE3166E	PE3166G	PE3166H
Sample Date		14-Jan-03	16-Jan-03	17-Jan-03	20-Jan-03	21-Jan-03	23-Jan-03	27-Jan-03
Sample Depth (feet)		35 - 44	55 - 75	75 - 93	95 - 115	115 - 135	178.5 - 195	198.5 - 211
2-Butanone	mg/L	1.10E-03 J	ND	ND	ND	ND	ND	ND
2-Hexanone	mg/L	2.10E-03 J	ND	ND	ND	ND	ND	ND
Acetone	mg/L	5.70E-03 J	ND	1.90E-03 J	6.90E-03 J	4.20E-03 J	ND	1.10E-02
Carbon disulfide	mg/L	ND	ND	ND	ND	ND	ND	3.20E-04 J
Toluene	mg/L	4.20E-04 J	ND	4.10E-04 J	3.70E-03	5.40E-04 J	6.70E-04 J	6.80E-03
Trichloroethene	mg/L	ND	5.90E-02	5.40E-03	ND	ND	ND	ND
Total VOCs Detected	mg/L	9.32E-03 J	5.90E-02	7.71E-03 J	1.06E-02 J	4.74E-03 J	6.70E-04 J	1.81E-02 J

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- MARSH / WETLANDS
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- RESIDUUM/TRANSITION MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION
- J — COMPOUND WAS POSITIVELY IDENTIFIED; REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- B — ANALYTE DETECTED IN LABORATORY OR FIELD BLANK AT CONCENTRATION GREATER THAN THE REPORTING LIMIT (AND GREATER THAN ZERO)
- D — REPORTED RESULT IS FROM DILUTION OF THE ORIGINAL SAMPLE
- E — RESULT EXCEEDS CALIBRATION RANGE; REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- ND — NOT DETECTED
- mg/L — MILLIGRAMS PER LITER
- VOC — VOLATILE ORGANIC COMPOUND

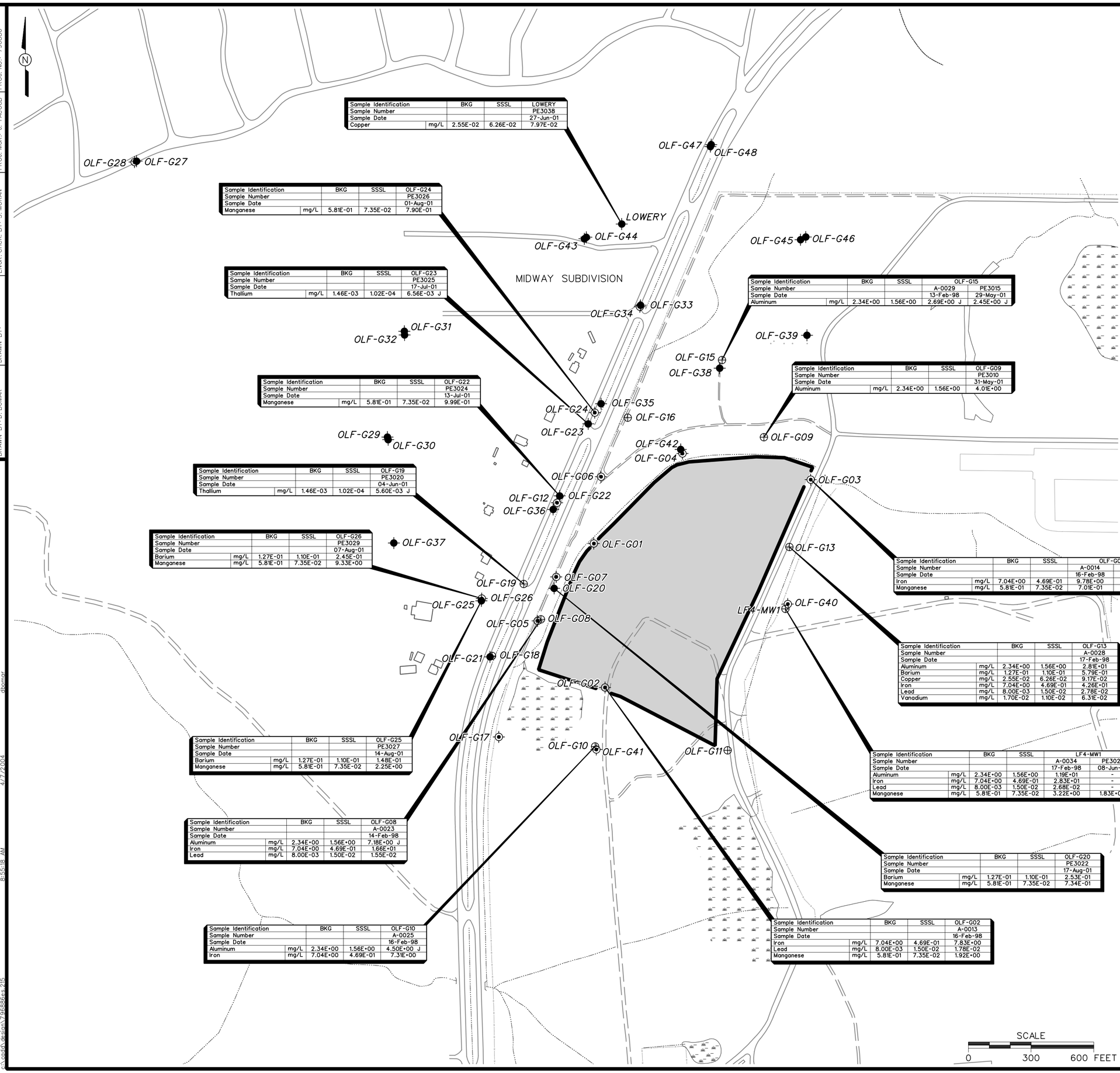
SCALE
0 300 600 FEET

FIGURE 5-1
TOTAL VOCs DETECTED IN DISCRETE GROUNDWATER SAMPLES LANDFILL NO. 3 PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw™ Shaw Environmental, Inc.

DWG. NO.: ...\796886es214
PROJ. NO.: 796886
INITIATOR: J. TARR
PROJ. MGR.: J. YACOUB
DRAFT. CHCK. BY:
ENGR. CHCK. BY: S. MORAN
DATE LAST REV.:
DRAWN BY: D. BOMAR
STARTING DATE: 04/01/04
DRAWN BY: dbomar
4/7/2004
9:40:09 AM
p:\cadd\design\796886es214



Sample Identification		BKG	SSSL	LOWERY
Sample Number				PE3038
Sample Date				27-Jun-01
Copper	mg/L	2.55E-02	6.26E-02	7.97E-02

Sample Identification		BKG	SSSL	OLF-G24
Sample Number				PE3026
Sample Date				01-Aug-01
Manganese	mg/L	5.81E-01	7.35E-02	7.90E-01

Sample Identification		BKG	SSSL	OLF-G23
Sample Number				PE3025
Sample Date				17-Jul-01
Thallium	mg/L	1.46E-03	1.02E-04	6.56E-03 J

Sample Identification		BKG	SSSL	OLF-G22
Sample Number				PE3024
Sample Date				13-Jul-01
Manganese	mg/L	5.81E-01	7.35E-02	9.99E-01

Sample Identification		BKG	SSSL	OLF-G19
Sample Number				PE3020
Sample Date				04-Jun-01
Thallium	mg/L	1.46E-03	1.02E-04	5.60E-03 J

Sample Identification		BKG	SSSL	OLF-G26
Sample Number				PE3029
Sample Date				07-Aug-01
Barium	mg/L	1.27E-01	1.10E-01	2.45E-01
Manganese	mg/L	5.81E-01	7.35E-02	9.33E+00

Sample Identification		BKG	SSSL	OLF-G25
Sample Number				PE3027
Sample Date				14-Aug-01
Barium	mg/L	1.27E-01	1.10E-01	1.48E-01
Manganese	mg/L	5.81E-01	7.35E-02	2.25E+00

Sample Identification		BKG	SSSL	OLF-G08
Sample Number				A-0023
Sample Date				14-Feb-98
Aluminum	mg/L	2.34E+00	1.56E+00	7.18E+00 J
Iron	mg/L	7.04E+00	4.69E-01	1.66E+01
Lead	mg/L	8.00E-03	1.50E-02	1.55E-02

Sample Identification		BKG	SSSL	OLF-G10
Sample Number				A-0025
Sample Date				16-Feb-98
Aluminum	mg/L	2.34E+00	1.56E+00	4.50E+00 J
Iron	mg/L	7.04E+00	4.69E-01	7.31E+00

Sample Identification		BKG	SSSL	OLF-G15	
Sample Number				A-0029	PE3015
Sample Date				13-Feb-98	29-May-01
Aluminum	mg/L	2.34E+00	1.56E+00	2.69E+00 J	2.45E+00 J

Sample Identification		BKG	SSSL	OLF-G09
Sample Number				PE3010
Sample Date				31-May-01
Aluminum	mg/L	2.34E+00	1.56E+00	4.01E+00

Sample Identification		BKG	SSSL	OLF-G03	
Sample Number				A-0014	PE3004
Sample Date				16-Feb-98	31-May-01
Iron	mg/L	7.04E+00	4.69E-01	9.78E+00	1.66E+01
Manganese	mg/L	5.81E-01	7.35E-02	7.01E-01	8.62E-01

Sample Identification		BKG	SSSL	OLF-G13
Sample Number				A-0028
Sample Date				17-Feb-98
Aluminum	mg/L	2.34E+00	1.56E+00	2.81E+01
Barium	mg/L	1.27E-01	1.10E-01	5.79E-01
Copper	mg/L	2.55E-02	6.26E-02	9.17E-02
Iron	mg/L	7.04E+00	4.69E-01	4.26E+01
Lead	mg/L	8.00E-03	1.50E-02	2.78E-02
Vanadium	mg/L	1.70E-02	1.10E-02	6.31E-02

Sample Identification		BKG	SSSL	LF4-MW1	
Sample Number				A-0034	PE3021
Sample Date				17-Feb-98	08-Jun-01
Aluminum	mg/L	2.34E+00	1.56E+00	1.19E+01	-
Iron	mg/L	7.04E+00	4.69E-01	2.83E+01	-
Lead	mg/L	8.00E-03	1.50E-02	2.68E-02	-
Manganese	mg/L	5.81E-01	7.35E-02	3.22E+00	1.83E+00

Sample Identification		BKG	SSSL	OLF-G20
Sample Number				PE3022
Sample Date				17-Aug-01
Barium	mg/L	1.27E-01	1.10E-01	2.53E-01
Manganese	mg/L	5.81E-01	7.35E-02	7.34E-01

Sample Identification		BKG	SSSL	OLF-G02
Sample Number				A-0013
Sample Date				16-Feb-98
Iron	mg/L	7.04E+00	4.69E-01	7.83E+00
Lead	mg/L	8.00E-03	1.50E-02	1.78E-02
Manganese	mg/L	5.81E-01	7.35E-02	1.92E+00

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- MARSH / WETLANDS
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- RESIDUUM/TRANSITION MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION
- BKG — BACKGROUND
- SSSL — SITE-SPECIFIC SCREENING LEVEL
- J — COMPOUND WAS POSITIVELY IDENTIFIED; REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- \- — NOT DETECTED ABOVE SSSL AND BACKGROUND
- mg/L — MILLIGRAMS PER LITER

NOTE:

1. "B"-FLAGGED DATA NOT SHOWN.

SCALE
0 300 600 FEET

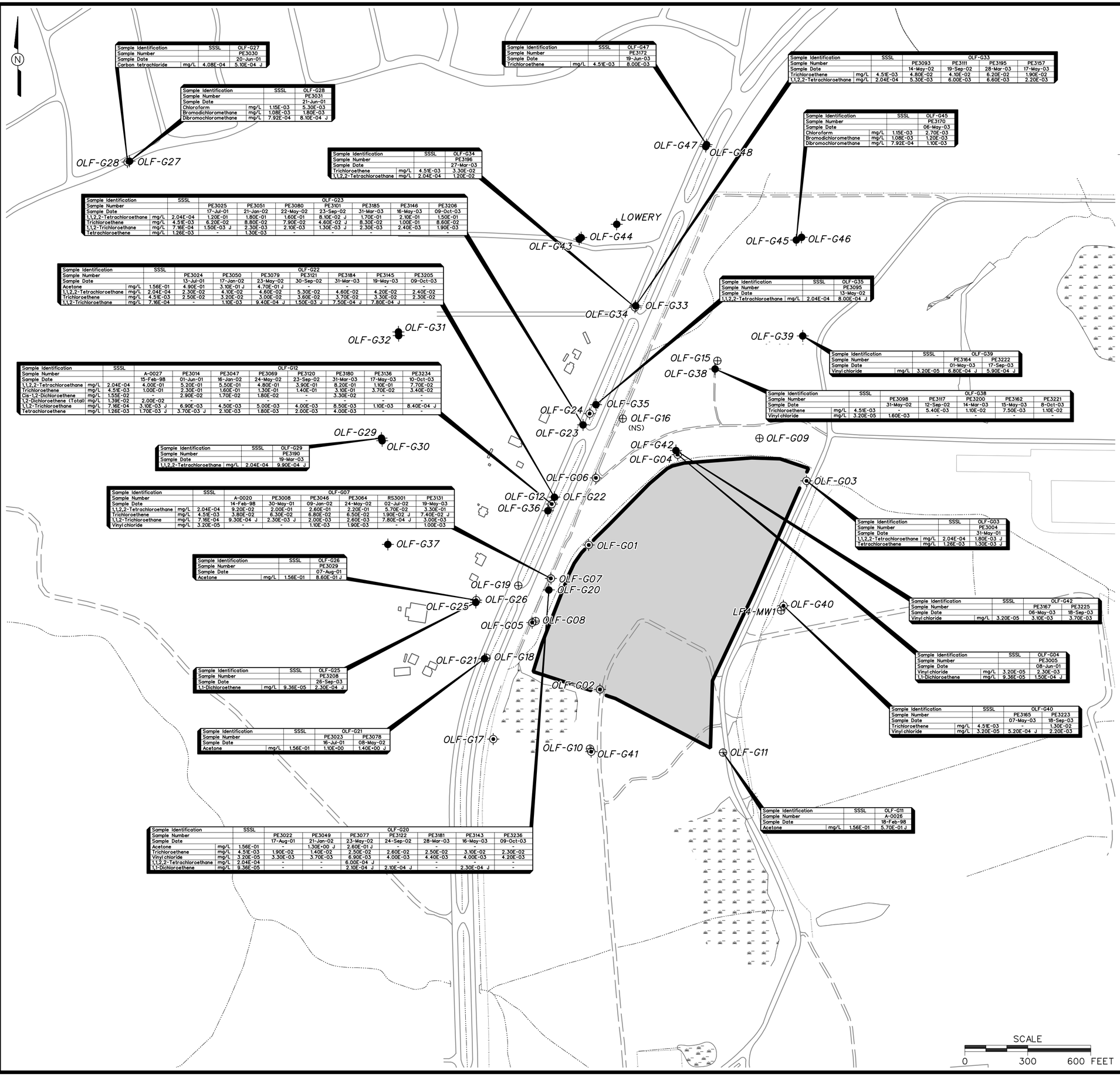
FIGURE 5-2
METALS EXCEEDING SSSLs AND BACKGROUND IN GROUNDWATER LANDFILL NO. 3 PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw™ Shaw Environmental, Inc.

STARTING DATE: 04/01/04 | DATE LAST REV.: | DRAFT. CHCK. BY: | INITIATOR: J. TARR | DWG. NO.: ...\796886es215
DRAWN BY: D. BOMAR | DRAWN BY: | ENGR. CHCK. BY: S. MORAN | PROJ. MGR.: J. YACOUB | PROJ. NO.: 796886

c:\cadd\design\796886es215 8:55:18 AM 4/7/2004 dbomar



Sample Identification		SSSL	OLF-G27
Sample Number			PE3030
Sample Date			20-Jun-01
Carbon tetrachloride	mg/L	4.08E-04	5.10E-04 J

Sample Identification		SSSL	OLF-G28
Sample Number			PE3031
Sample Date			21-Jun-01
Chloroform	mg/L	1.15E-03	5.30E-03
Bromodichloromethane	mg/L	1.08E-03	1.80E-03
Dibromochloromethane	mg/L	7.92E-04	8.10E-04 J

Sample Identification		SSSL	OLF-G47
Sample Number			PE3172
Sample Date			19-Jun-03
Trichloroethene	mg/L	4.51E-03	8.00E-03

Sample Identification		SSSL	OLF-G33			
Sample Number			PE3093	PE3111	PE3195	PE3157
Sample Date			14-May-02	19-Sep-02	28-Mar-03	17-May-03
Trichloroethene	mg/L	4.51E-03	4.80E-02	4.10E-02	6.20E-02	1.90E-02
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	5.30E-03	6.00E-03	6.60E-03	2.20E-03

Sample Identification		SSSL	OLF-G45
Sample Number			PE3170
Sample Date			06-May-03
Chloroform	mg/L	1.15E-03	2.70E-03
Bromodichloromethane	mg/L	1.08E-03	1.20E-03
Dibromochloromethane	mg/L	7.92E-04	1.10E-03

Sample Identification		SSSL	OLF-G34
Sample Number			PE3196
Sample Date			27-Mar-03
Trichloroethene	mg/L	4.51E-03	3.30E-02
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	1.20E-02

Sample Identification		SSSL	OLF-G23						
Sample Number			PE3025	PE3051	PE3080	PE3101	PE3185	PE3146	PE3206
Sample Date			17-Jul-01	21-Jan-02	22-May-02	23-Sep-02	31-Mar-03	16-May-03	09-Oct-03
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	1.20E-01	1.80E-01	1.60E-01	8.10E-02 J	1.70E-01	2.10E-01	1.50E-01
Trichloroethene	mg/L	4.51E-03	6.20E-02	8.80E-02	7.90E-02	4.60E-02 J	8.30E-02	1.00E-01	8.60E-02
1,1,2-Trichloroethane	mg/L	7.16E-04	1.50E-03 J	2.30E-03	2.10E-03	1.30E-03 J	2.30E-03	2.40E-03	1.90E-03
Tetrachloroethene	mg/L	1.26E-03	-	1.30E-03	-	-	-	-	-

Sample Identification		SSSL	OLF-G22						
Sample Number			PE3024	PE3050	PE3079	PE3121	PE3184	PE3145	PE3205
Sample Date			13-Jul-01	17-Jan-02	23-May-02	30-Sep-02	31-Mar-03	19-May-03	09-Oct-03
Acetone	mg/L	1.56E-01	4.90E-01	3.10E-01 J	4.70E-01 J	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	2.30E-02	4.10E-02	4.60E-02	5.30E-02	4.60E-02	4.20E-02	2.40E-02
Trichloroethene	mg/L	4.51E-03	2.50E-02	3.20E-02	3.00E-02	3.60E-02	3.70E-02	3.30E-02	2.30E-02
1,1,2-Trichloroethane	mg/L	7.16E-04	-	1.10E-03	9.40E-04 J	1.50E-03 J	7.50E-04 J	7.80E-04 J	-

Sample Identification		SSSL	OLF-G35
Sample Number			PE3095
Sample Date			13-May-02
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	8.00E-04 J

Sample Identification		SSSL	OLF-G39	
Sample Number			PE3164	PE3222
Sample Date			01-May-03	17-Sep-03
Vinyl chloride	mg/L	3.20E-05	6.80E-04 J	5.90E-04 J

Sample Identification		SSSL	OLF-G12						
Sample Number			A-0027	PE3014	PE3047	PE3069	PE3120	PE3180	PE3136	PE3234
Sample Date			15-Feb-98	01-Jun-01	16-Jan-02	24-May-02	23-Sep-02	31-Mar-03	17-May-03	10-Oct-03
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	4.00E-01	5.70E-01	5.50E-01	4.80E-01	3.90E-01	8.20E-01	1.10E-01	7.70E-02
Trichloroethene	mg/L	4.51E-03	1.00E-01	2.30E-01	1.60E-01	1.30E-01	1.40E-01	3.10E-01	3.70E-02	3.40E-02
Cis-1,2-Dichloroethene	mg/L	1.55E-02	-	2.90E-02	1.70E-02	1.80E-02	-	3.30E-02	-	-
1,2-Dichloroethene (Total)	mg/L	1.39E-02	2.00E-02	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/L	7.16E-04	3.10E-03 J	6.90E-03	4.50E-03	5.00E-03	4.00E-03	8.50E-03	1.10E-03	8.40E-04 J
Tetrachloroethene	mg/L	1.26E-03	1.70E-03 J	3.70E-03 J	2.10E-03	1.80E-03	2.00E-03	4.00E-03	-	-

Sample Identification		SSSL	OLF-G38				
Sample Number			PE3098	PE3117	PE3200	PE3162	PE3221
Sample Date			31-May-02	12-Sep-02	14-Mar-03	15-May-03	8-Oct-03
Trichloroethene	mg/L	4.51E-03	-	5.40E-03	1.10E-02	7.50E-03	1.10E-02
Vinyl chloride	mg/L	3.20E-05	1.60E-03	-	-	-	-

Sample Identification		SSSL	OLF-G29
Sample Number			PE3190
Sample Date			19-Mar-03
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	9.90E-04 J

Sample Identification		SSSL	OLF-G07					
Sample Number			A-0020	PE3008	PE3046	PE3064	RS3001	PE3131
Sample Date			14-Feb-98	30-May-01	09-Jan-02	24-May-02	02-Jul-02	19-May-03
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	9.20E-02	2.00E-01	2.60E-01	2.20E-01	5.70E-02	3.30E-01
Trichloroethene	mg/L	4.51E-03	3.80E-02	6.30E-02	6.80E-02	6.50E-02	1.90E-02 J	7.40E-02 J
1,1,2-Trichloroethane	mg/L	7.16E-04	9.30E-04 J	2.30E-03 J	2.00E-03	2.60E-03	7.80E-04 J	3.00E-03
Vinyl chloride	mg/L	3.20E-05	-	-	1.10E-03	1.90E-03	-	1.00E-03

Sample Identification		SSSL	OLF-G03
Sample Number			PE3004
Sample Date			31-May-01
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	1.80E-03 J
Tetrachloroethene	mg/L	1.26E-03	1.30E-03 J

Sample Identification		SSSL	OLF-G26
Sample Number			PE3029
Sample Date			07-Aug-01
Acetone	mg/L	1.56E-01	8.60E-01 J

Sample Identification		SSSL	OLF-G42	
Sample Number			PE3167	PE3225
Sample Date			06-May-03	18-Sep-03
Vinyl chloride	mg/L	3.20E-05	3.10E-03	3.70E-03

Sample Identification		SSSL	OLF-G04
Sample Number			PE3005
Sample Date			08-Jun-01
Vinyl chloride	mg/L	3.20E-05	2.30E-03
1,1-Dichloroethene	mg/L	9.36E-05	1.50E-04 J

Sample Identification		SSSL	OLF-G25
Sample Number			PE3208
Sample Date			26-Sep-03
1,1-Dichloroethene	mg/L	9.36E-05	2.30E-04 J

Sample Identification		SSSL	OLF-G40	
Sample Number			PE3165	PE3223
Sample Date			07-May-03	18-Sep-03
Trichloroethene	mg/L	4.51E-03	-	1.30E-02
Vinyl chloride	mg/L	3.20E-05	5.20E-04 J	2.20E-03

Sample Identification		SSSL	OLF-G21	
Sample Number			PE3023	PE3078
Sample Date			16-Jul-01	08-May-02
Acetone	mg/L	1.56E-01	1.10E-00	1.40E+00 J

Sample Identification		SSSL	OLF-G11
Sample Number			A-0026
Sample Date			18-Feb-98
Acetone	mg/L	1.56E-01	5.70E-01 J

Sample Identification		SSSL	OLF-G20						
Sample Number				PE3022	PE3049	PE3077	PE3122	PE3181	PE3143	PE3236
Sample Date				17-Aug-01	21-Jan-02	23-May-02	24-Sep-02	28-Mar-03	16-May-03	09-Oct-03
Acetone	mg/L	1.56E-01		-	1.30E+00 J	2.60E-01 J	-	-	-	-
Trichloroethene	mg/L	4.51E-03		1.90E-02	1.40E-02	2.50E-02	2.60E-02	2.50E-02	3.10E-02	2.30E-02
Vinyl chloride	mg/L	3.20E-05		3.30E-03	3.70E-03	6.90E-03	4.00E-03	4.40E-03	4.00E-03	4.20E-03
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04		-	-	6.00E-04 J	-	-	-	-
1,1-Dichloroethene	mg/L	9.36E-05		-	-	2.10E-04 J	2.10E-04 J	-	2.30E-04 J	-

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- MARSH / WETLANDS
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- RESIDUUM/TRANSITION MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION
- SSSL — SITE-SPECIFIC SCREENING LEVEL
- J — COMPOUND WAS POSITIVELY IDENTIFIED; REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- (NS) — NOT SAMPLED
- \- — COMPOUND WAS EITHER NOT DETECTED OR CONCENTRATION WAS BELOW SSSL
- mg/L — MILLIGRAMS PER LITER

NOTE:

1. "B"-FLAGGED DATA NOT SHOWN.

FIGURE 5-3
VOCs EXCEEDING SSSLs IN GROUNDWATER LANDFILL NO. 3 PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw™ Shaw Environmental, Inc.

STARTING DATE: 04/01/04 | DATE LAST REV.: | DRAFT. CHCK. BY: | INITIATOR: J. TARR | DWG. NO.: ...\796886es216
DRAWN BY: D. BOMAR | DRAWN BY: | ENGR. CHCK. BY: S. MORAN | PROJ. MGR.: J. YACOUB | PROJ. NO.: 796886

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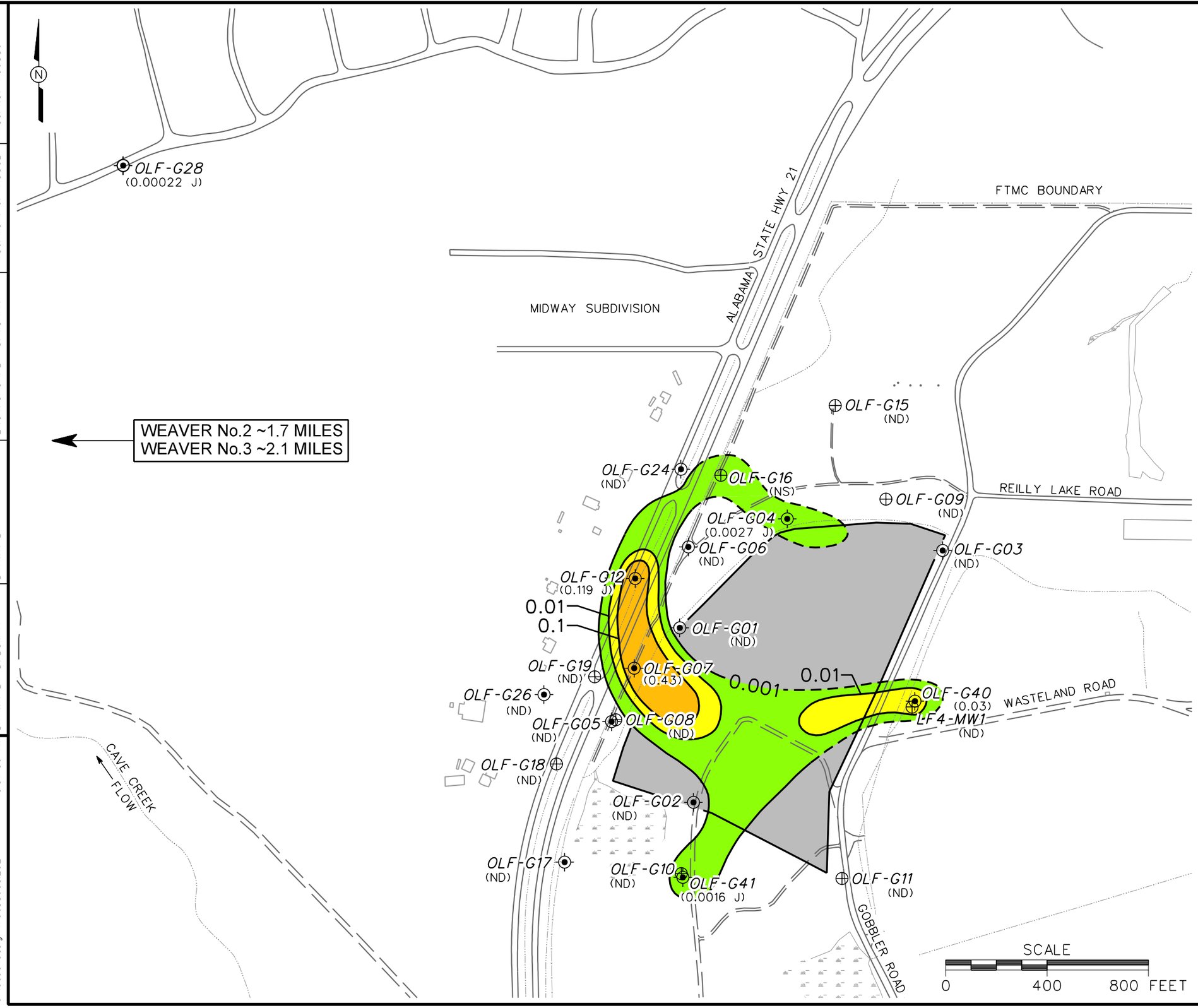

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- MARSH / WETLANDS
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- RESIDUUM/TRANSITION MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- (0.43) TOTAL CHLORINATED VOCs CONCENTRATION (mg/L) (SEPT/OCT 2003)
- 0.1 CONCENTRATION IN MILLIGRAMS PER LITER (mg/L) (DASHED WHERE INFERRED)
- mg/L MILLIGRAMS PER LITER
- (ND) NOT DETECTED
- (NS) NOT SAMPLED
- J COMPOUND WAS POSITIVELY IDENTIFIED; REPORTED VALUE IS AN ESTIMATED CONCENTRATION

NOTES:

1. COMMON LAB CONTAMINANTS METHYLENE CHLORIDE, ACETONE AND ANY OTHER BLANK QUALIFIED DATA EXCLUDED.
2. CONCENTRATION SHOWN IS FROM MOST RECENT DATE SAMPLED.

FIGURE 5-4
TOTAL CHLORINATED VOCs
ISOPLETH MAP
RESIDUUM WELLS (2003)
LANDFILL NO. 3
PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw Environmental, Inc.

DWG. NO.: ...\796886es.202
PROJ. NO.: 796886
INITIATOR: B. HEDBERG
PROJ. MGR.: J. YACOUB
DRAFT. CHCK. BY:
ENGR. CHCK. BY: S. MORAN
DATE LAST REV.:
DRAWN BY:
STARTING DATE: 03/22/04
DRAWN BY: D. BOMAR
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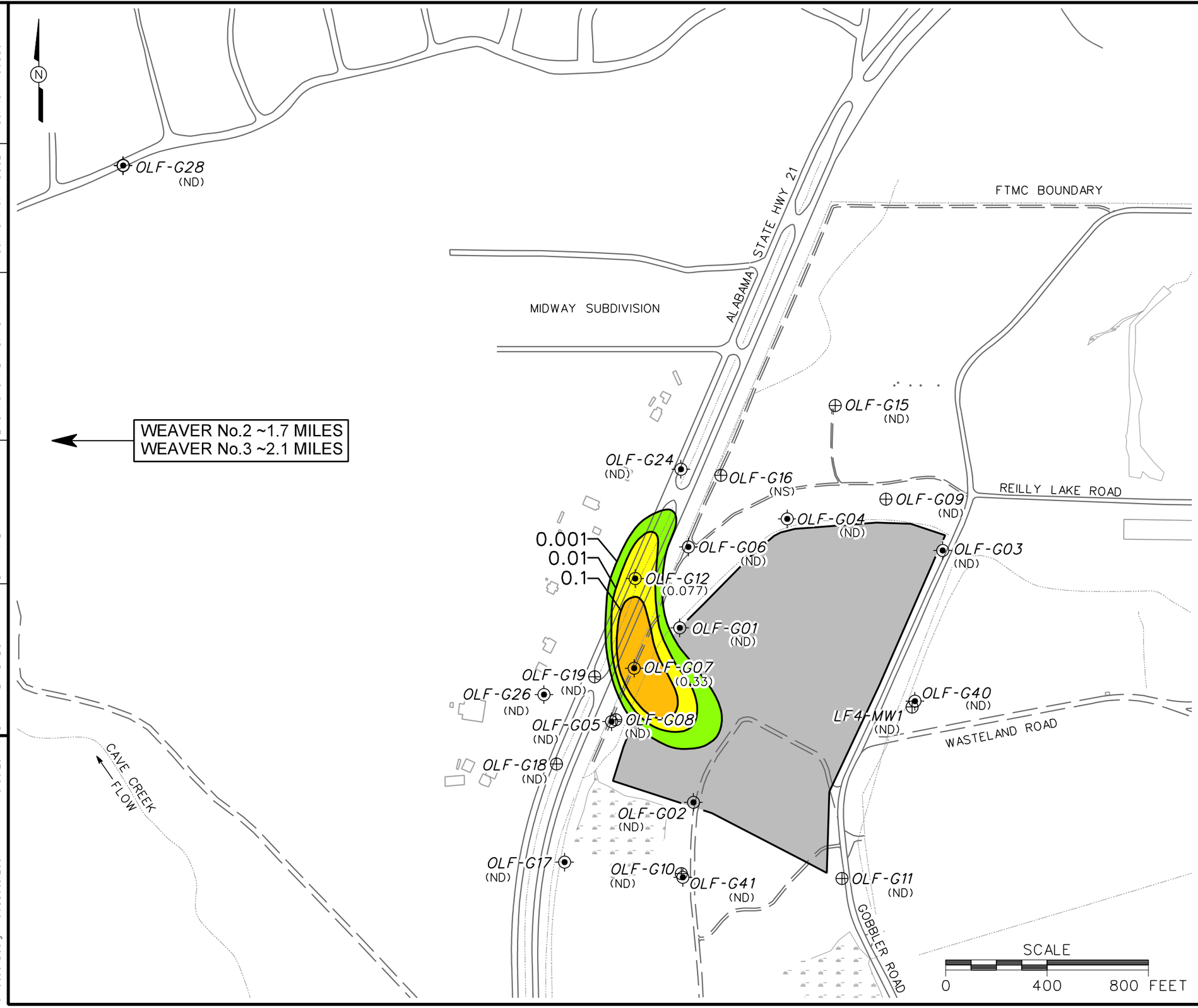

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- MARSH / WETLANDS
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- RESIDUUM/TRANSITION MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- (0.43) 1,1,2,2-TETRACHLOROETHENE CONCENTRATION (mg/L) (SEPT/OCT 2003)
- 0.1 CONCENTRATION IN MILLIGRAMS PER LITER (mg/L) (DASHED WHERE INFERRED)
- mg/L MILLIGRAMS PER LITER
- (ND) NOT DETECTED
- (NS) NOT SAMPLED
- J COMPOUND WAS POSITIVELY IDENTIFIED; REPORTED VALUE IS AN ESTIMATED CONCENTRATION

NOTES:

1. COMMON LAB CONTAMINANTS METHYLENE CHLORIDE, ACETONE AND ANY OTHER BLANK QUALIFIED DATA EXCLUDED.
2. CONCENTRATION SHOWN IS FROM MOST RECENT DATE SAMPLED.

FIGURE 5-5
1,1,2,2-TETRACHLOROETHANE
ISOPLETH MAP
RESIDUUM WELLS (2003)
LANDFILL NO. 3
PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

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PROJ. NO.: 796886
INITIATOR: B. HEDBERG
PROJ. MGR.: J. YACOUB
DRAFT. CHCK. BY:
ENGR. CHCK. BY: S. MORAN
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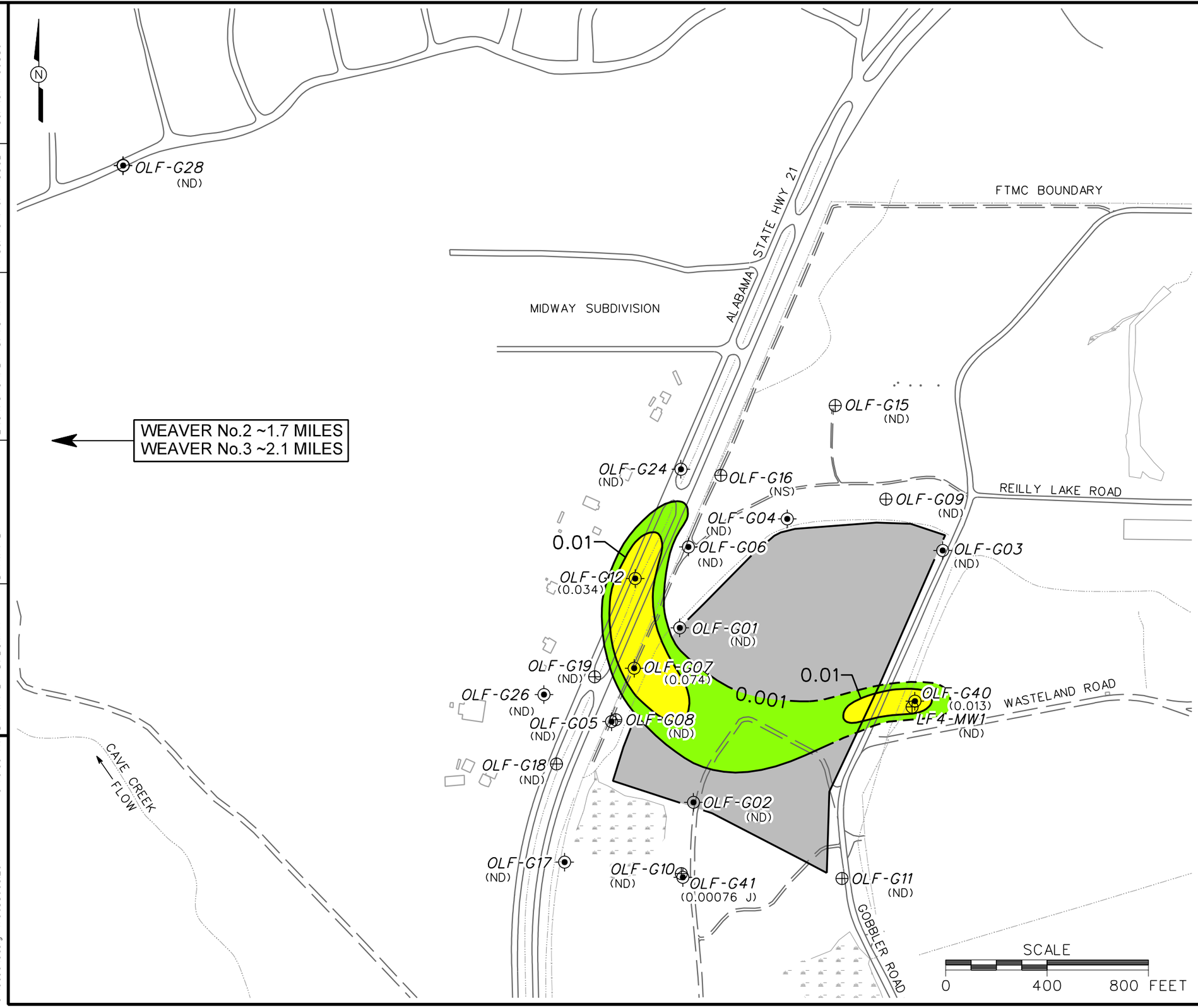

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- MARSH / WETLANDS
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- RESIDUUM/TRANSITION MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- (0.43) TRICHLOROETHENE CONCENTRATION (mg/L) (SEPT/OCT 2003)
- 0.1 CONCENTRATION IN MILLIGRAMS PER LITER (mg/L) (DASHED WHERE INFERRED)
- mg/L MILLIGRAMS PER LITER
- (ND) NOT DETECTED
- (NS) NOT SAMPLED
- J COMPOUND WAS POSITIVELY IDENTIFIED; REPORTED VALUE IS AN ESTIMATED CONCENTRATION

NOTES:

1. COMMON LAB CONTAMINANTS METHYLENE CHLORIDE, ACETONE AND ANY OTHER BLANK QUALIFIED DATA EXCLUDED.
2. CONCENTRATION SHOWN IS FROM MOST RECENT DATE SAMPLED.

FIGURE 5-6
TRICHLOROETHENE ISOPLETH MAP
RESIDUUM WELLS (2003)
LANDFILL NO. 3
PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

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PROJ. NO.: 796886
INITIATOR: B. HEDBERG
PROJ. MGR.: J. YACOUB
DRAFT. CHCK. BY:
ENGR. CHCK. BY: S. MORAN
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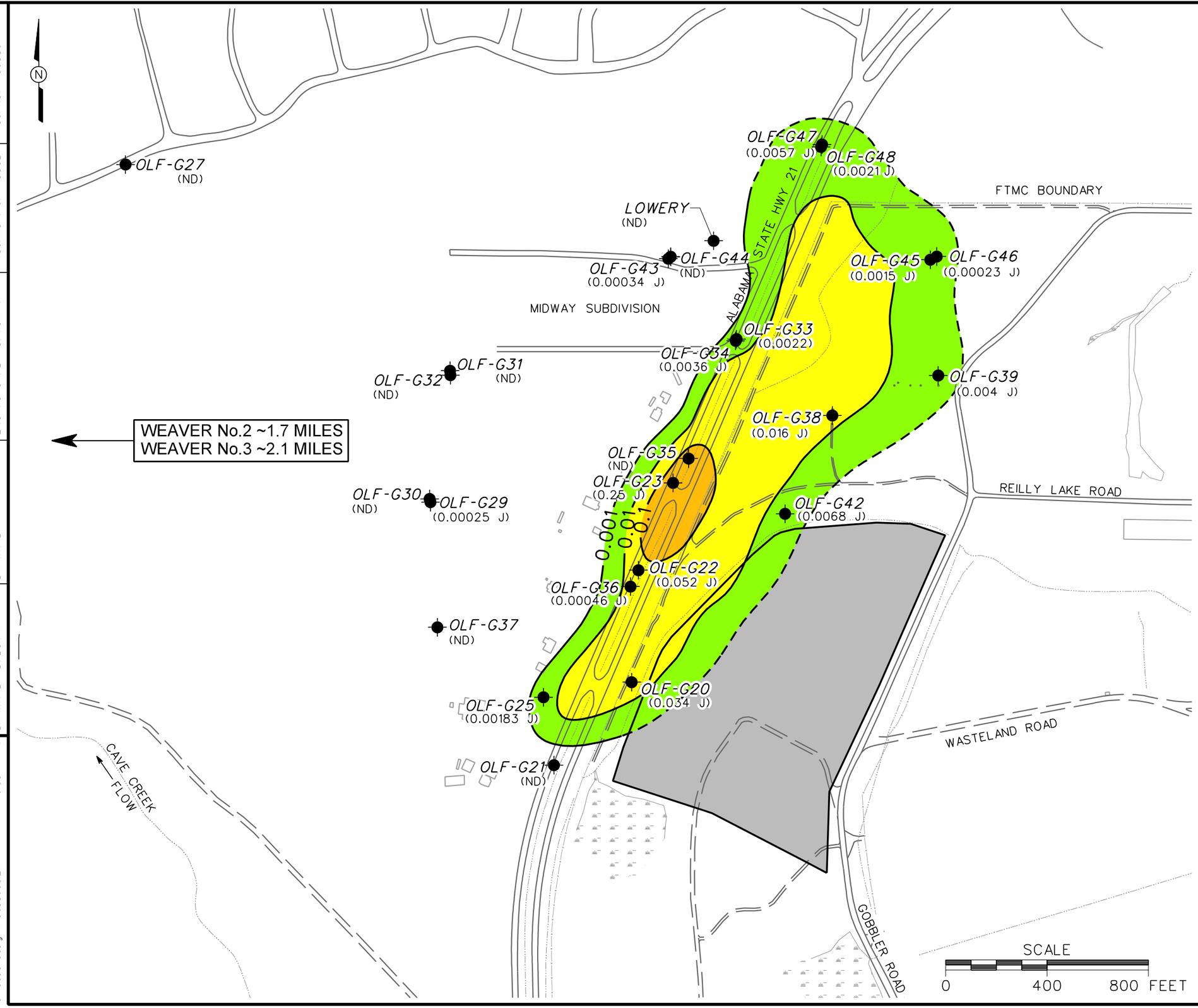

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- MARSH / WETLANDS
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- BEDROCK MONITORING WELL LOCATION
- (0.43) TOTAL CHLORINATED VOC CONCENTRATION (mg/L) (SEPT/OCT 2003)
- 0.1 CONCENTRATION IN MILLIGRAMS PER LITER (mg/L) (DASHED WHERE INFERRED)
- mg/L MILLIGRAMS PER LITER
- (ND) NOT DETECTED
- J COMPOUND WAS POSITIVELY IDENTIFIED; REPORTED VALUE IS AN ESTIMATED CONCENTRATION

NOTES:

1. COMMON LAB CONTAMINANTS METHYLENE CHLORIDE, ACETONE AND ANY OTHER BLANK QUALIFIED DATA EXCLUDED.
2. CONCENTRATION SHOWN IS FROM MOST RECENT DATE SAMPLED.

FIGURE 5-7
TOTAL CHLORINATED VOCs
ISOPLETH MAP
BEDROCK WELLS (2003)
LANDFILL NO. 3
PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

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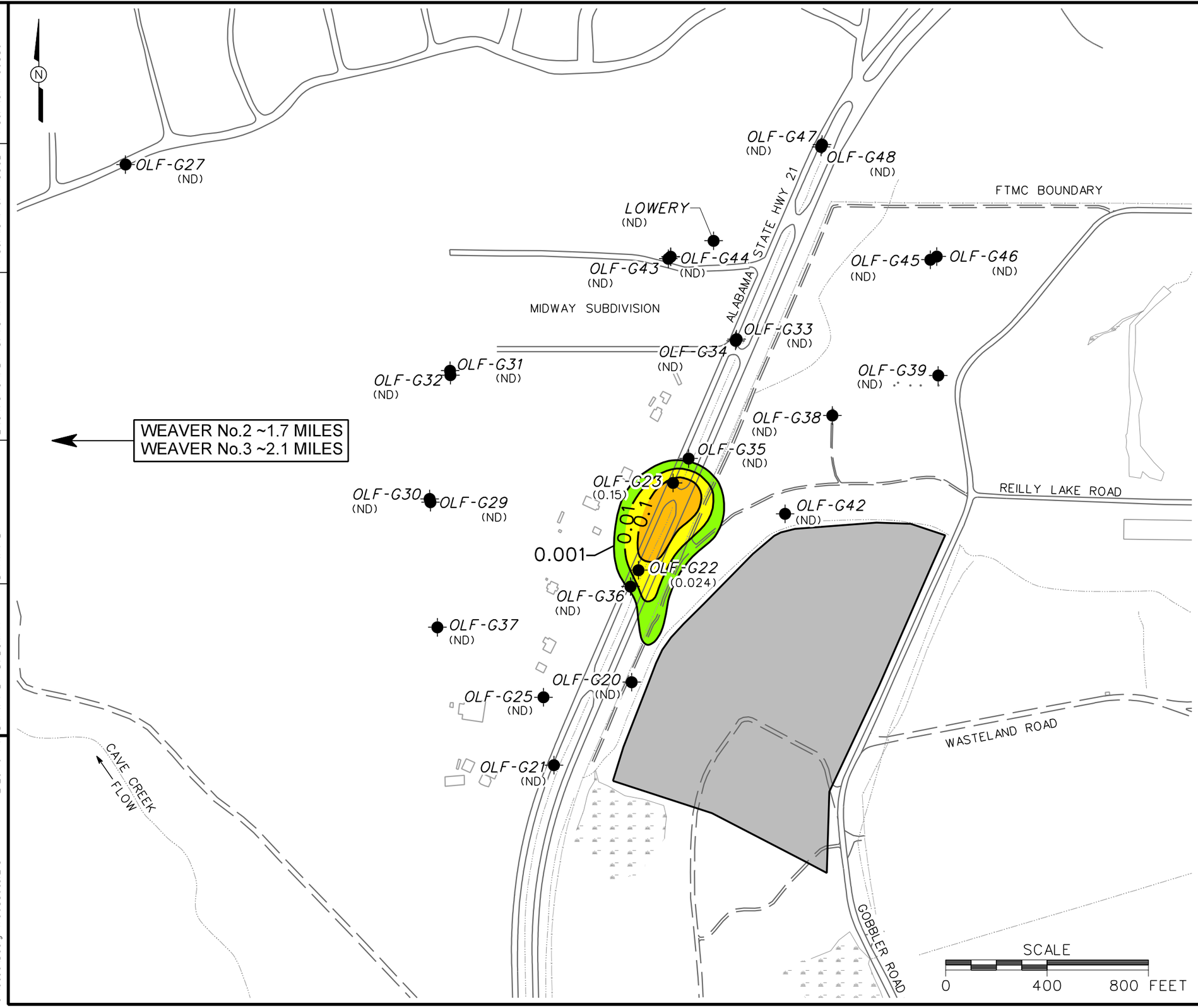

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- MARSH / WETLANDS
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- BEDROCK MONITORING WELL LOCATION
- (0.43) 1,1,2,2-TETRACHLOROETHENE CONCENTRATION (mg/L) (SEPT/OCT 2003)
- 0.1 CONCENTRATION IN MILLIGRAMS PER LITER (mg/L) (DASHED WHERE INFERRED)
- mg/L MILLIGRAMS PER LITER
- (ND) NOT DETECTED
- J COMPOUND WAS POSITIVELY IDENTIFIED; REPORTED VALUE IS AN ESTIMATED CONCENTRATION

NOTES:

1. COMMON LAB CONTAMINANTS METHYLENE CHLORIDE, ACETONE AND ANY OTHER BLANK QUALIFIED DATA EXCLUDED.
2. CONCENTRATION SHOWN IS FROM MOST RECENT DATE SAMPLED.

FIGURE 5-8
1,1,2,2-TETRACHLOROETHANE
ISOPLETH MAP
BEDROCK WELLS (2003)
LANDFILL NO. 3
PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

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INITIATOR: B. HEDBERG	PROJ. MGR.: J. YACOUB		
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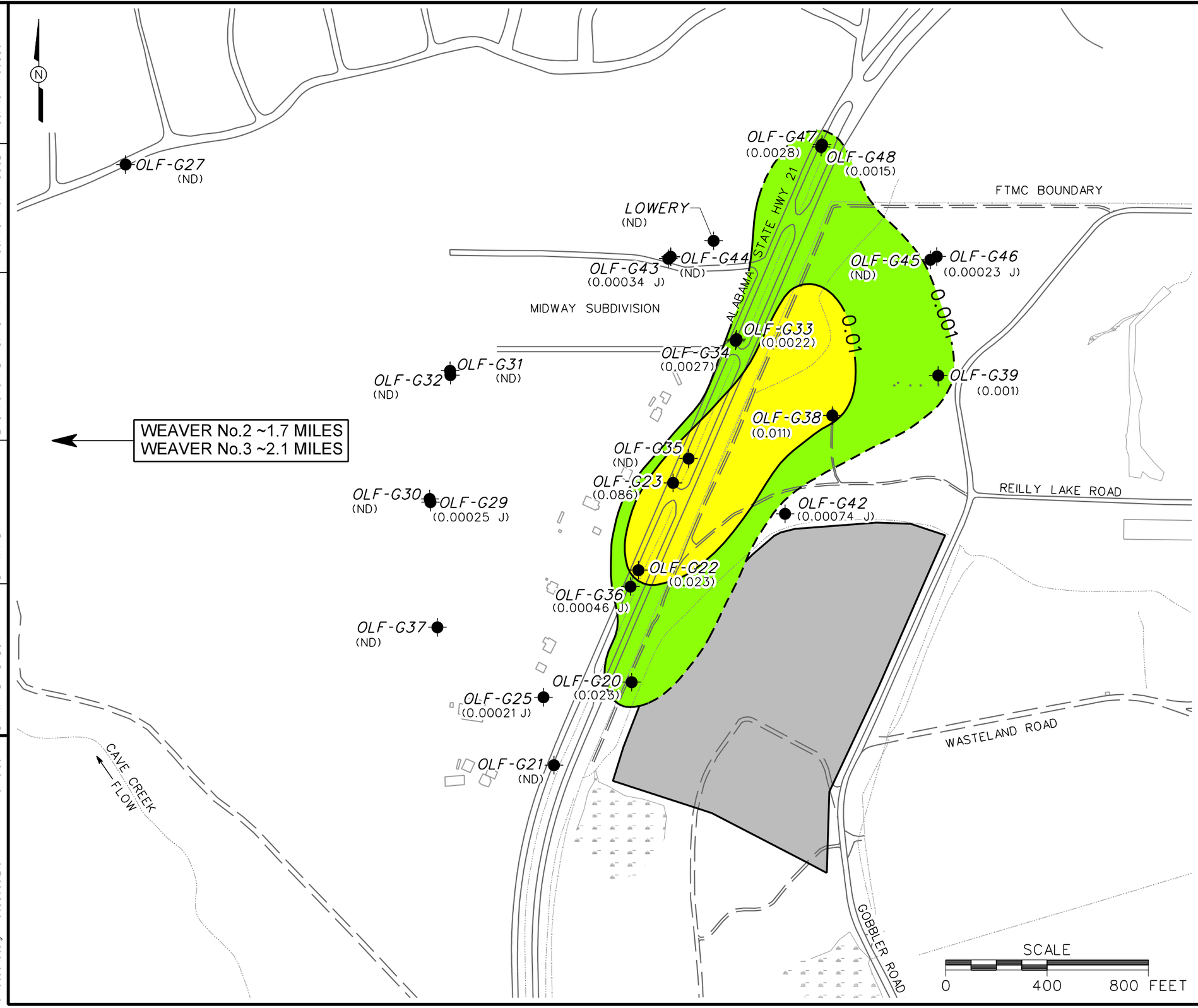

LEGEND

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- MARSH / WETLANDS
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- BEDROCK MONITORING WELL LOCATION
- (0.43) TRICHLOROETHENE CONCENTRATION (mg/L) (SEPT/OCT 2003)
- 0.1 CONCENTRATION IN MILLIGRAMS PER LITER (mg/L) (DASHED WHERE INFERRED)
- mg/L MILLIGRAMS PER LITER
- (ND) NOT DETECTED
- J COMPOUND WAS POSITIVELY IDENTIFIED; REPORTED VALUE IS AN ESTIMATED CONCENTRATION

NOTES:

1. COMMON LAB CONTAMINANTS METHYLENE CHLORIDE, ACETONE AND ANY OTHER BLANK QUALIFIED DATA EXCLUDED.
2. CONCENTRATION SHOWN IS FROM MOST RECENT DATE SAMPLED.

FIGURE 5-9
TRICHLOROETHENE ISOPLETH MAP
BEDROCK WELLS (2003)
LANDFILL NO. 3
PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw Environmental, Inc.

DWG. NO.: ...\796886es.219 | PROJ. NO.: 796886
INITIATOR: B. HEDBERG | PROJ. MGR.: J. YACOUB
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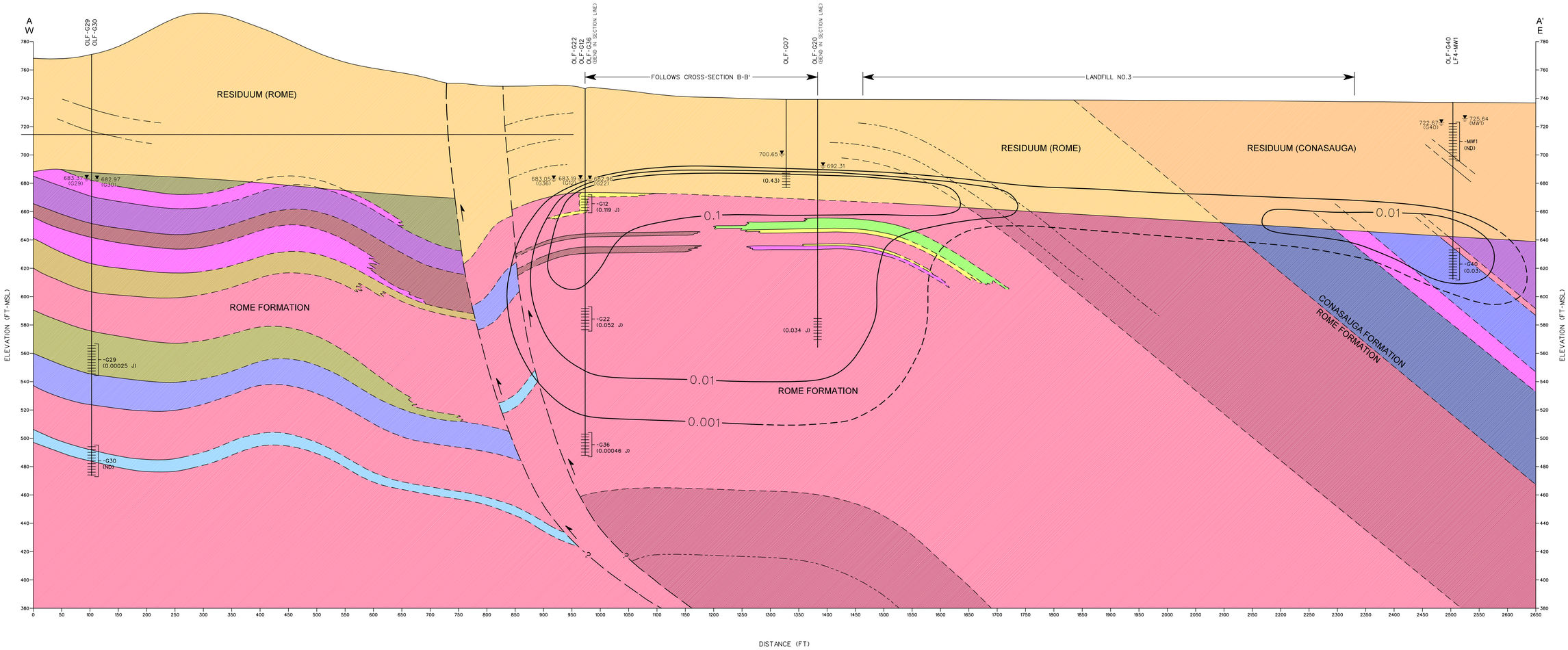

LEGEND:

- CONASAUGA FORMATION UNDIFFERENTIATED
- CONASAUGA FORMATION RESIDUUM
- ROME FORMATION UNDIFFERENTIATED
- ROME FORMATION RESIDUUM
- SANDSTONE, MUDSTONE AND SANDSTONE, INTERBEDDED
- SILTSTONE
- MUDSTONE
- CLAYSTONE
- LIMESTONE
- LIMESTONE AND DOLOMITIC LIMESTONE, INTERBEDDED
- LIMESTONE, DOLOMITIC LIMESTONE AND MUDSTONE, INTERBEDDED
- DOLOMITE
- DOLOMITE AND SILTSTONE, INTERBEDDED
- DOLOMITE AND MUDSTONE, INTERBEDDED
- DOLOMITE, MUDSTONE AND SILTSTONE, INTERBEDDED
- MUDSTONE AND SILTSTONE, INTERBEDDED

- THRUST FAULT (DASHED WHERE INFERRED)
- GEOLOGIC CONTACTS (DASHED WHERE INFERRED)
- INFERRED BEDDING
- 0.1 TOTAL CHLORINATED VOC CONCENTRATIONS IN GROUNDWATER (mg/L)
- (0.43) CONCENTRATION IN MILLIGRAMS PER LITER (mg/L)
- (ND) NOT DETECTED
- J COMPOUND WAS POSITIVELY IDENTIFIED; REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- WATER TABLE
- (0.43) GROUNDWATER ELEVATION (FT MSL) (SEPTEMBER 2003)

VERTICAL 0 20 40 FEET

HORIZONTAL 0 50 100 FEET

FIGURE 5-10
GEOLOGIC CROSS-SECTION A-A'
TOTAL CHLORINATED VOCs (2003)
LANDFILL NO. 3
PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

Shaw Environmental, Inc.

STARTING DATE: 04/07/04 | DATE LAST REV.: | DRAFT. CHCK. BY: | INITIATOR: B. HEDBERG | DWG. NO.: \796886es.220
DRAWN BY: D. BOMAR | DRAWN BY: | ENGR. CHCK. BY: S. MORAN | PROJ. MGR.: J. YACOUB | PROJ. NO.: 796886

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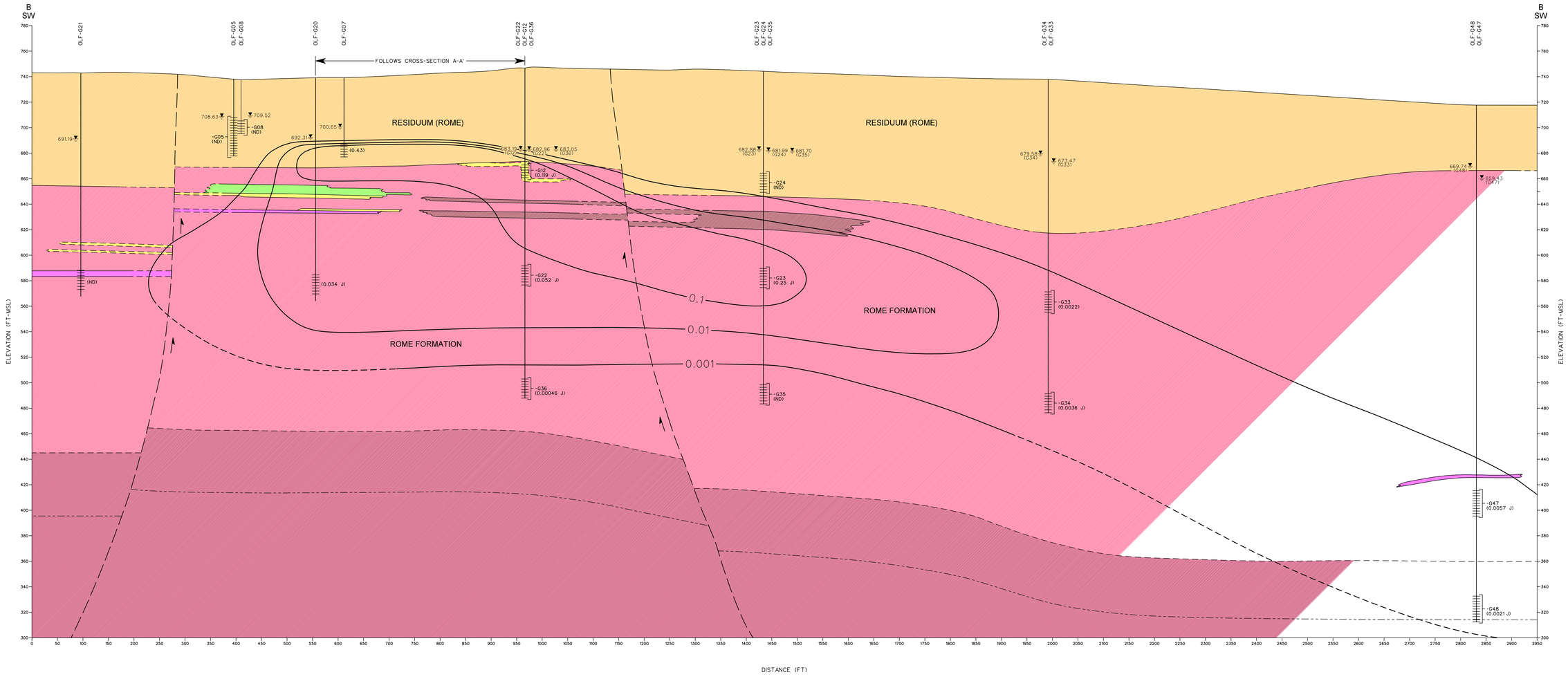

LEGEND:

- CONASAUGA FORMATION UNDIFFERENTIATED
- CONASAUGA FORMATION RESIDUUM
- ROME FORMATION UNDIFFERENTIATED
- ROME FORMATION RESIDUUM
- SANDSTONE, MUDSTONE AND SANDSTONE, INTERBEDDED
- SILTSTONE
- MUDSTONE
- CLAYSTONE
- LIMESTONE
- LIMESTONE AND DOLOMITIC LIMESTONE, INTERBEDDED
- LIMESTONE, DOLOMITIC LIMESTONE AND MUDSTONE, INTERBEDDED
- DOLOMITE
- DOLOMITE AND SILTSTONE, INTERBEDDED
- DOLOMITE AND MUDSTONE, INTERBEDDED
- DOLOMITE, MUDSTONE AND SILTSTONE, INTERBEDDED
- MUDSTONE AND SILTSTONE, INTERBEDDED

THRUST FAULT (DASHED WHERE INFERRED)

GEOLOGIC CONTACTS (DASHED WHERE INFERRED)

INFERRED BEDDING

0.1 TOTAL CHLORINATED VOC CONCENTRATIONS IN GROUNDWATER (mg/L)

(0.43) CONCENTRATION IN MILLIGRAMS PER LITER (mg/L)

(ND) NOT DETECTED

J COMPOUND WAS POSITIVELY IDENTIFIED; REPORTED VALUE IS AN ESTIMATED CONCENTRATION

WATER TABLE

(0.43) GROUNDWATER ELEVATION (FT MSL) (SEPTEMBER 2003)

FIGURE 5-11
GEOLOGIC CROSS-SECTION B-B'
TOTAL CHLORINATED VOCs (2003)
LANDFILL NO. 3
PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

VERTICAL 0 20 40 FEET

HORIZONTAL 0 50 100 FEET

Shaw Shaw Environmental, Inc.

STARTING DATE: 04/07/04 | DATE LAST REV.: | DRAFT. CHCK. BY: | INITIATOR: B. HEDBERG | DWG. NO.: \796886ex.21
DRAWN BY: D. BOMAR | DRAWN BY: | ENGR. CHCK. BY: S. MORAN | PROJ. MGR.: J. YACOUB | PROJ. NO.: 796886

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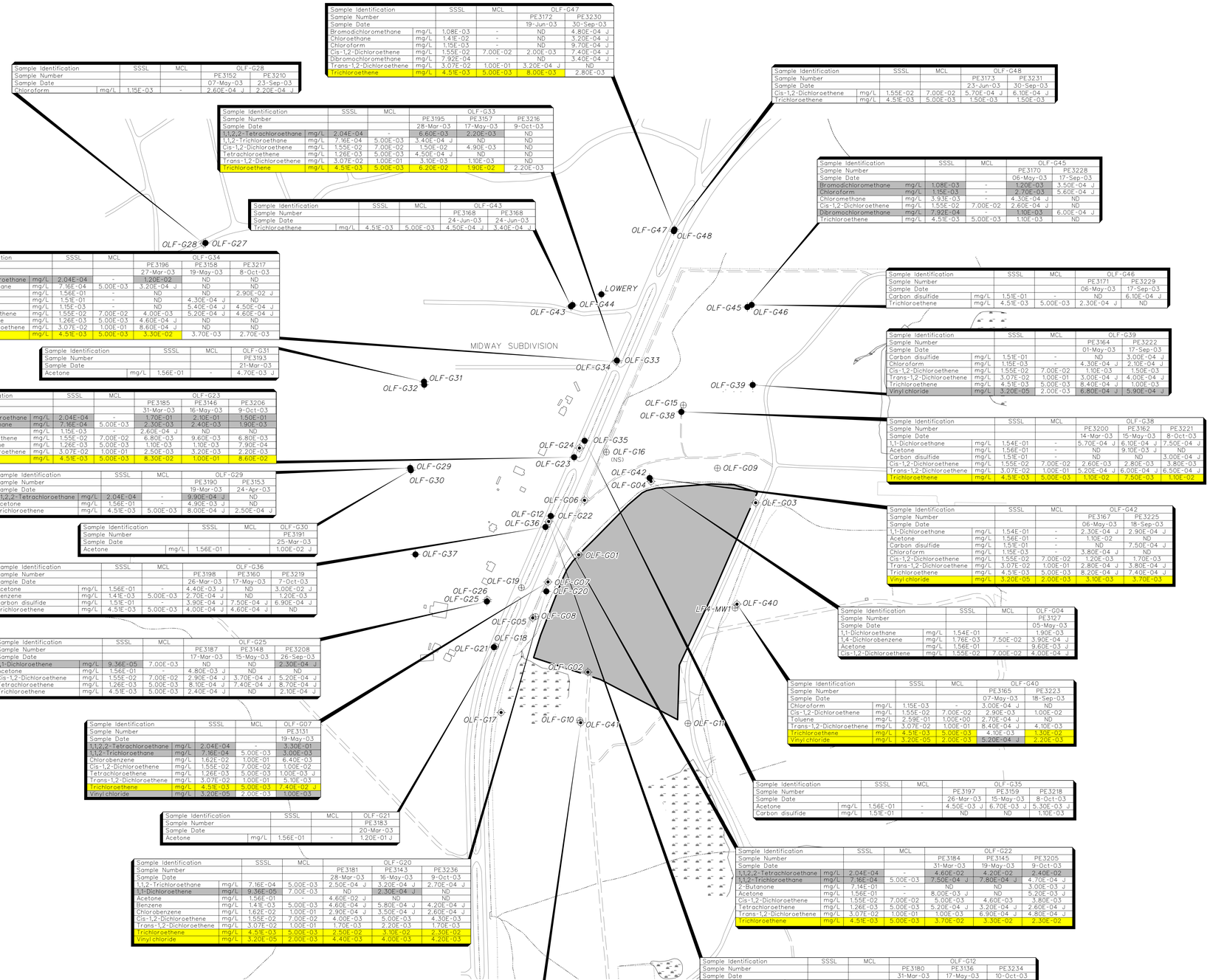

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Sample Number				PE3152	PE3210
Sample Date				07-May-03	23-Sep-03
Chloroform	mg/L	1.15E-03	-	2.60E-04 J	2.20E-04 J

Sample Identification		SSSL	MCL	OLF-G33		
Sample Number				PE3195	PE3157	PE3216
Sample Date				28-Mar-03	17-May-03	9-Oct-03
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	-	6.60E-03	2.20E-03	ND
1,1,2-Trichloroethane	mg/L	7.16E-04	5.00E-03	3.40E-04 J	ND	ND
Cis-1,2-Dichloroethene	mg/L	1.55E-02	7.00E-02	1.50E-02	4.90E-03	ND
Tetrachloroethene	mg/L	1.26E-03	5.00E-03	4.50E-04 J	ND	ND
Trans-1,2-Dichloroethene	mg/L	3.07E-02	1.00E-01	3.10E-03	1.10E-03	ND
Trichloroethene	mg/L	4.51E-03	5.00E-03	6.20E-02	1.90E-02	2.20E-03

Sample Identification		SSSL	MCL	OLF-G43	
Sample Number				PE3168	PE3168
Sample Date				24-Jun-03	24-Jun-03
Trichloroethene	mg/L	4.51E-03	5.00E-03	4.50E-04 J	3.40E-04 J

Sample Identification		SSSL	MCL	OLF-G34		
Sample Number				PE3196	PE3158	PE3217
Sample Date				27-Mar-03	19-May-03	8-Oct-03
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	-	1.20E-02	ND	ND
1,1,2-Trichloroethane	mg/L	7.16E-04	5.00E-03	3.20E-04 J	ND	ND
Acetone	mg/L	1.56E-01	-	ND	ND	2.90E-02 J
Carbon disulfide	mg/L	1.51E-01	-	ND	4.30E-04 J	ND
Chloroform	mg/L	1.15E-03	-	ND	5.40E-04 J	4.50E-04 J
Cis-1,2-Dichloroethene	mg/L	1.55E-02	7.00E-02	4.00E-03	5.20E-04 J	4.60E-04 J
Tetrachloroethene	mg/L	1.26E-03	5.00E-03	4.60E-04 J	ND	ND
Trans-1,2-Dichloroethene	mg/L	3.07E-02	1.00E-01	8.60E-04 J	ND	ND
Trichloroethene	mg/L	4.51E-03	5.00E-03	3.30E-02	3.70E-03	2.70E-03

Sample Identification		SSSL	MCL	OLF-G31
Sample Number				PE3193
Sample Date				21-Mar-03
Acetone	mg/L	1.56E-01	-	4.70E-03 J

Sample Identification		SSSL	MCL	OLF-G23		
Sample Number				PE3185	PE3146	PE3206
Sample Date				31-Mar-03	16-May-03	9-Oct-03
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	-	1.70E-01	2.10E-01	1.50E-01
1,1,2-Trichloroethane	mg/L	7.16E-04	5.00E-03	2.30E-03	2.40E-03	1.90E-03
Chloroform	mg/L	1.15E-03	-	2.60E-04 J	ND	ND
Cis-1,2-Dichloroethene	mg/L	1.55E-02	7.00E-02	6.80E-03	9.60E-03	6.80E-03
Tetrachloroethene	mg/L	1.26E-03	5.00E-03	1.10E-03	1.10E-03	7.90E-04
Trans-1,2-Dichloroethene	mg/L	3.07E-02	1.00E-01	2.50E-03	3.20E-03	2.20E-03
Trichloroethene	mg/L	4.51E-03	5.00E-03	8.30E-02	1.00E-01	8.60E-02

Sample Identification		SSSL	MCL	OLF-G29	
Sample Number				PE3190	PE3153
Sample Date				19-Mar-03	24-Apr-03
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	-	9.90E-04 J	ND
Acetone	mg/L	1.56E-01	-	4.90E-03 J	ND
Trichloroethene	mg/L	4.51E-03	5.00E-03	8.00E-04 J	2.50E-04 J

Sample Identification		SSSL	MCL	OLF-G30
Sample Number				PE3191
Sample Date				25-Mar-03
Acetone	mg/L	1.56E-01	-	1.00E-02 J

Sample Identification		SSSL	MCL	OLF-G36		
Sample Number				PE3198	PE3160	PE3219
Sample Date				26-Mar-03	17-May-03	7-Oct-03
Acetone	mg/L	1.56E-01	-	4.40E-03 J	ND	3.00E-02 J
Benzene	mg/L	1.41E-03	5.00E-03	2.70E-04 J	ND	1.20E-03
Carbon disulfide	mg/L	1.51E-01	-	3.90E-04 J	7.50E-04 J	6.90E-04 J
Trichloroethene	mg/L	4.51E-03	5.00E-03	4.00E-04 J	4.60E-04 J	ND

Sample Identification		SSSL	MCL	OLF-G25		
Sample Number				PE3187	PE3148	PE3208
Sample Date				17-Mar-03	15-May-03	26-Sep-03
1,1-Dichloroethene	mg/L	9.36E-05	7.00E-03	ND	ND	2.30E-04 J
Acetone	mg/L	1.56E-01		4.80E-03 J	ND	ND
Cis-1,2-Dichloroethene	mg/L	1.55E-02	7.00E-02	2.90E-04 J	3.70E-04 J	5.20E-04 J
Tetrachloroethene	mg/L	1.26E-03	5.00E-03	8.10E-04 J	7.40E-04 J	8.70E-04 J
Trichloroethene	mg/L	4.51E-03	5.00E-03	2.40E-04 J	ND	2.10E-04 J

Sample Identification		SSSL	MCL	OLF-G07
Sample Number				PE3131
Sample Date				19-May-03
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	-	3.30E-01
1,1,2-Trichloroethane	mg/L	7.16E-04	5.00E-03	3.00E-03
Chlorobenzene	mg/L	1.62E-02	1.00E-01	6.40E-03
Cis-1,2-Dichloroethene	mg/L	1.55E-02	7.00E-02	1.00E-02
Tetrachloroethene	mg/L	1.26E-03	5.00E-03	1.00E-03 J
Trans-1,2-Dichloroethene	mg/L	3.07E-02	1.00E-01	5.10E-03
Trichloroethene	mg/L	4.51E-03	5.00E-03	7.40E-02 J
Vinyl chloride	mg/L	3.20E-05	2.00E-03	1.00E-03

Sample Identification		SSSL	MCL	OLF-G21
Sample Number				PE3183
Sample Date				20-Mar-03
Acetone	mg/L	1.56E-01	-	1.20E-01 J

Sample Identification		SSSL	MCL	OLF-G20		
Sample Number				PE3181	PE3143	PE3236
Sample Date				28-Mar-03	16-May-03	9-Oct-03
1,1,2-Trichloroethane	mg/L	7.16E-04	5.00E-03	2.50E-04 J	3.20E-04 J	2.70E-04 J
1,1-Dichloroethene	mg/L	9.36E-05	7.00E-03	ND	2.30E-04 J	ND
Acetone	mg/L	1.56E-01	-	4.60E-02 J	ND	ND
Benzene	mg/L	1.41E-03	5.00E-03	4.60E-04 J	5.80E-04 J	4.20E-04 J
Chlorobenzene	mg/L	1.62E-02	1.00E-01	2.90E-04 J	3.50E-04 J	2.60E-04 J
Cis-1,2-Dichloroethene	mg/L	1.55E-02	7.00E-02	4.00E-03	5.00E-03	4.30E-03
Trans-1,2-Dichloroethene	mg/L	3.07E-02	1.00E-01	1.70E-03	2.20E-03	1.70E-03
Trichloroethene	mg/L	4.51E-03	5.00E-03	2.50E-02	3.10E-02	2.30E-02
Vinyl chloride	mg/L	3.20E-05	2.00E-03	4.40E-03	4.00E-03	4.20E-03

Sample Identification		SSSL	MCL	OLF-G41
Sample Number				PE3166
Sample Date				30-Apr-03
Bromodichloromethane	mg/L	1.08E-03	-	2.20E-04 J
Chloroform	mg/L	1.15E-03		6.20E-04 J
Trichloroethene	mg/L	4.51E-03	5.00E-03	7.60E-04 J

Sample Identification		SSSL	MCL	OLF-G47	
Sample Number				PE3172	PE3230
Sample Date				19-Jun-03	30-Sep-03
Bromodichloromethane	mg/L	1.08E-03	-	ND	4.80E-04 J
Chloroethane	mg/L	1.41E-02	-	ND	3.20E-04 J
Chloroform	mg/L	1.15E-03		ND	9.70E-04 J
Cis-1,2-Dichloroethene	mg/L	1.55E-02	7.00E-02	2.00E-03	7.40E-04 J
Dibromochloromethane	mg/L	7.92E-04	-	ND	3.40E-04 J
Trans-1,2-Dichloroethene	mg/L	3.07E-02	1.00E-01	3.20E-04 J	ND
Trichloroethene	mg/L	4.51E-03	5.00E-03	8.00E-03	2.80E-03

Sample Identification		SSSL	MCL	OLF-G48	
Sample Number				PE3173	PE3231
Sample Date				23-Jun-03	30-Sep-03
Cis-1,2-Dichloroethene	mg/L	1.55E-02	7.00E-02	5.70E-04 J	6.10E-04 J
Trichloroethene	mg/L	4.51E-03	5.00E-03	1.50E-03	1.50E-03

Sample Identification		SSSL	MCL	OLF-G45	
Sample Number				PE3170	PE3228
Sample Date				06-May-03	17-Sep-03
Bromodichloromethane	mg/L	1.08E-03	-	1.20E-03	3.50E-04 J
Chloroform	mg/L	1.15E-03	-	2.70E-03	5.60E-04 J
Chloromethane	mg/L	3.93E-03	-	4.30E-04 J	ND
Cis-1,2-Dichloroethene	mg/L	1.55E-02	7.00E-02	2.60E-04 J	ND
Dibromochloromethane	mg/L	7.92E-04	-	1.10E-03	6.00E-04 J
Trichloroethene	mg/L	4.51E-03	5.00E-03	1.10E-03	ND

Sample Identification		SSSL	MCL	OLF-G46	
Sample Number				PE3171	PE3229
Sample Date				06-May-03	17-Sep-03
Carbon disulfide	mg/L	1.51E-01	-	ND	6.10E-04 J
Trichloroethene	mg/L	4.51E-03	5.00E-03	2.30E-04 J	ND

Sample Identification		SSSL	MCL	OLF-G39	
Sample Number				PE3164	PE3222
Sample Date				01-May-03	17-Sep-03
Carbon disulfide	mg/L	1.51E-01	-	ND	3.00E-04 J
Chloroform	mg/L	1.15E-03	-	4.30E-04 J	2.10E-04 J
Cis-1,2-Dichloroethene	mg/L	1.55E-02	7.00E-02	1.10E-03	1.50E-03
Trans-1,2-Dichloroethene	mg/L	3.07E-02	1.00E-01	3.00E-04 J	4.00E-04 J
Trichloroethene	mg/L	4.51E-03	5.00E-03	8.40E-04 J	1.00E-03
Vinyl chloride	mg/L	3.20E-05	2.00E-03	6.80E-04 J	5.90E-04 J

Sample Identification		SSSL	MCL	OLF-G38		
Sample Number				PE3200	PE3162	PE3221
Sample Date				14-Mar-03	15-May-03	8-Oct-03
1,1-Dichloroethane	mg/L	1.54E-01	-	5.70E-04 J	6.10E-04 J	7.50E-04 J
Acetone	mg/L	1.56E-01	-	ND	9.10E-03 J	ND
Carbon disulfide	mg/L	1.51E-01	-	ND	ND	3.00E-04 J
Cis-1,2-Dichloroethene	mg/L	1.55E-02	7.00E-02	2.60E-03	2.80E-03	3.80E-03
Trans-1,2-Dichloroethene	mg/L	3.07E-02	1.00E-01	5.20E-04 J	6.00E-04 J	6.50E-04 J
Trichloroethene	mg/L	4.51E-03	5.00E-03	1.10E-02	7.50E-03	1.10E-02

Sample Identification		SSSL	MCL	OLF-G42	
Sample Number				PE3167	PE3225
Sample Date				06-May-03	18-Sep-03
1,1-Dichloroethane	mg/L	1.54E-01	-	2.30E-04 J	2.90E-04 J
Acetone	mg/L	1.56E-01	-	1.10E-02	ND
Carbon disulfide	mg/L	1.51E-01	-	ND	7.50E-04 J
Chloroform	mg/L	1.15E-03	-	3.80E-04 J	ND
Cis-1,2-Dichloroethene	mg/L	1.55E-02	7.00E-02	1.20E-03	1.70E-03
Trans-1,2-Dichloroethene	mg/L	3.07E-02	1.00E-01	2.80E-04 J	3.80E-04 J
Trichloroethene	mg/L	4.51E-03	5.00E-03	8.20E-04 J	7.40E-04 J
Vinyl chloride	mg/L	3.20E-05	2.00E-03	3.10E-03	3.70E-03

Sample Identification		SSSL	MCL	OLF-G04
Sample Number				PE3127
Sample Date				05-May-03
1,1-Dichloroethane	mg/L	1.54E-01	-	1.90E-03
1,4-Dichlorobenzene	mg/L	1.76E-03	7.50E-02	3.90E-04 J
Acetone	mg/L	1.56E-01	-	9.60E-03 J
Cis-1,2-Dichloroethene	mg/L	1.55E-02	7.00E-02	4.00E-04 J

Sample Identification		SSSL	MCL	OLF-G40	
Sample Number				PE3165	PE3223
Sample Date				07-May-03	18-Sep-03
Chloroform	mg/L	1.15E-03	-	3.00E-04 J	ND
Cis-1,2-Dichloroethene	mg/L	1.55E-02	7.00E-02	2.90E-03	1.00E-02
Toluene	mg/L	2.59E-01	1.00E+00	2.70E-04 J	ND
Trans-1,2-Dichloroethene	mg/L	3.07E-02	1.00E-01	8.40E-04 J	4.10E-03
Trichloroethene	mg/L	4.51E-03	5.00E-03	4.10E-03	1.30E-02
Vinyl chloride	mg/L	3.20E-05	2.00E-03	5.20E-04 J	2.20E-03

Sample Identification		SSSL	MCL	OLF-G35		
Sample Number				PE3197	PE3159	PE3218
Sample Date				26-Mar-03	15-May-03	8-Oct-03
Acetone	mg/L	1.56E-01	-	4.50E-03 J	6.70E-03 J	5.30E-03 J
Carbon disulfide	mg/L	1.51E-01	-	ND	ND	1.10E-03

Sample Identification		SSSL	MCL	OLF-G22		
Sample Number				PE3184	PE3145	PE3205
Sample Date				31-Mar-03	19-May-03	9-Oct-03
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	-	4.60E-02	4.20E-02	2.40E-02
1,1,2-Trichloroethane	mg/L	7.16E-04	5.00E-03	7.50E-04 J	7.80E-04 J	4.70E-04 J
2-Butanone	mg/L	7.14E-01	-	ND	ND	3.00E-03 J
Acetone	mg/L	1.56E-01	-	8.00E-03 J	ND	5.20E-03 J
Cis-1,2-Dichloroethene	mg/L	1.55E-02	7.00E-02	5.00E-03	4.60E-03	3.80E-03
Tetrachloroethene	mg/L	1.26E-03	5.00E-03	5.20E-04 J	3.20E-04 J	2.60E-04 J
Trans-1,2-Dichloroethene	mg/L	3.07E-02	1.00E-01	1.00E-03	6.90E-04 J	4.80E-04 J
Trichloroethene	mg/L	4.51E-03	5.00E-03	3.70E-02	3.30E-02	2.30E-02

Sample Identification		SSSL	MCL	OLF-G12		
Sample Number				PE3180	PE3136	PE3234
Sample Date				31-Mar-03	17-May-03	10-Oct-03
1,1,2,2-Tetrachloroethane	mg/L	2.04E-04	-	8.20E-01	1.10E-01	7.70E-02
1,1,2-Trichloroethane	mg/L	7.16E-04	5.00E-03	8.50E-03	1.10E-03	8.40E-04 J
1,4-Dichlorobenzene	mg/L	1.76E-03	7.50E-02	2.20E-04 J	ND	ND
Chloroform	mg/L	1.15E-03	-	2.40E-04 J	ND	ND
Cis-1,2-Dichloroethene	mg/L	1.55E-02	7.00E-02	3.30E-02	5.40E-03	4.90E-03
Tetrachloroethene	mg/L	1.26E-03	5.00E-03	4.00E-03	4.30E-04 J	4.30E-04 J
Trans-1,2-Dichloroethene	mg/L	3.07E-02	1.00E-01	1.30E-02	1.90E-03	1.60E-03
Trichloroethene	mg/L	4.51E-03	5.00E-03	3.10E-01	3.70E-02	3.40E-02

LEGEND:

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- MARSH / WETLANDS
- PARCEL BOUNDARY
- SURFACE DRAINAGE / CREEK
- FENCE
- UTILITY POLE
- RESIDUUM/TRANSITION MONITORING WELL LOCATION
- RESIDUUM MONITORING WELL LOCATION
- BEDROCK MONITORING WELL LOCATION
- J — COMPOUND WAS POSITIVELY IDENTIFIED; REPORTED VALUE IS AN ESTIMATED CONCENTRATION
- MCL — MAXIMUM CONTAMINANT LEVEL
- NS — NOT SAMPLED, WELL WAS DRY
- ND — NOT DETECTED
- mg/L — MILLIGRAMS PER LITER
- \- — EPA HAS NOT ESTABLISHED AN MCL
- SSSL — SITE-SPECIFIC SCREENING LEVEL
- CONCENTRATION EXCEEDS SSSL AND MCL
- CONCENTRATION EXCEEDS SSSL

NOTE:

1. "B"-FLAGGED DATA NOT SHOWN.

FIGURE 5-12
VOCs DETECTED IN GROUNDWATER
2003 QUARTERLY MONITORING RESULTS
LANDFILL NO. 3
PARCEL 80(6)

U. S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT
FORT McCLELLAN
CALHOUN COUNTY, ALABAMA
Contract No. DACA21-96-D-0018

SCALE
0 300 600 FEET

Shaw Environmental, Inc.

DWG. NO.: ...\796886es.222 | PROJ. NO.: 796886
INITIATOR: J. TARR | PROJ. MGR.:
DRAFT. CHCK. BY: J. TARR | ENGR. CHCK. BY:
DATE LAST REV.: | DRAWN BY:
STARTING DATE: 03/30/04 | DRAWN BY: L. STOUT

dbamor 4/5/2004
c:\cadd\design\796886es.222 5:22:38 PM
24 x 36