

Table 3-1

**Sampling Locations and Rationale**  
**11th Chemical Motor Pool Area, Parcels 29(7), 30(7), and 74(7)**  
**Fort McClellan, Calhoun County, Alabama**

Sample Location	Sample Media	Sample Location Rationale
FTA-29-GP01	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil and groundwater samples were collected near the drain outside the fenced area in the northeast corner of the site.
FTA-29-GP02	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil and groundwater samples were collected in the center of the removed underground storage tank (UST) excavation area along the fence near the eastern border of the site.
FTA-29-GP03(SS) FTA-29-GP03(W)	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil and groundwater samples were collected in the vicinity of the abandoned waste oil tank excavation area located between the concrete truck ramps 3260 and 3261.
FTA-29-GP04	Surface Soil Subsurface Soil Groundwater	Surface soil, subsurface soil and groundwater samples were collected in the grassy area between the washrack and the oil/water (O/W) separator, northeast of Building 3262
FTA-29-GP05	Subsurface Soil Groundwater	Subsurface soil and groundwater samples were collected downgradient of the removed UST excavation area near Remount Creek.
FTA-29-GP06	Subsurface Soil Groundwater	Subsurface soil and groundwater samples were collected upgradient of Building 3299 and the UST excavation area approximately 20 feet west of Building 3299.
FTA-29-GP07	Subsurface Soil Groundwater	Subsurface soil and groundwater samples were collected approximately 50 feet north of FTA-29-GP03 between the concrete truck ramps 3260 and 3261.
FTA-29-GP08	Subsurface Soil Groundwater	Subsurface soil and groundwater samples were collected approximately 50 feet south of FTA-29-GP03 between the concrete truck ramps 3260 and 3261.
FTA-29-GP09	Subsurface Soil Groundwater	Subsurface soil and groundwater samples were collected downgradient of the O/W separator and washrack approximately 60 feet northeast of Building 3262 in the grassy area outside the fence.
FTA-29-GP10(SS) FTA-29-GP10(W)	Subsurface Soil Groundwater	Subsurface soil and groundwater samples were collected adjacent to the concrete drain line in the grassy area inside the fence near Buildings 3262 and 3267.
FTA-29-MW02	Groundwater	A groundwater sample was collected from existing perimeter monitoring well MW5-2, located approximately 60 feet cross-gradient (south) of the 10,000-gallon UST tank excavation area.
FTA-29-MW03	Groundwater	A groundwater sample was collected from existing monitoring well MW5-3 located in the 10,000-gallon tank excavation area.
FTA-29-MW04	Groundwater	A groundwater sample was collected from existing monitoring well MW5-4, located in the northeast corner of the 10,000-gallon tank excavation area.
FTA-29-MW05	Groundwater	A groundwater sample was collected from existing monitoring well MW5-5, located approximately 60 feet north of the 10,000-gallon tank excavation area in the grass.
FTA-29-SW/SD01	Surface Water Sediment	Surface water and sediment samples were collected from Remount Creek, which receives surface runoff from the parcel.
FTA-29-SW/SD02	Surface Water Sediment	Surface water and sediment samples were collected from Remount Creek, which receives surface runoff from the parcel.
FTA-29-SW/SD03	Surface Water Sediment	Surface water and sediment samples were collected from Remount Creek, which receives surface runoff from the parcel.
FTA-29-DEP01	Depositional Soil	A depositional soil sample was collected from a lower elevation at the site.
FTA-29-DEP02	Depositional Soil	A depositional soil sample was collected from a lower elevation at the site.

Table 3-2

**Surface Soil, Subsurface Soil, and Depositional Soil Sample Designations and QA/QC Samples  
11th Chemical Motor Pool Area, Parcels 29(7), 30(7), and 74(7)  
Fort McClellan, Calhoun County, Alabama**

Sample Location	Sample Designation	Sample Depth (ft. bgs)	QA/QC Samples			Analytical Suite
			Field Duplicates	Field Splits	MS/MSD	
FTA-29-GP01	FTA-29-GP01-SS-AA0001-REG FTA-29-GP01-DS-AA0002-REG	0-1 4.5-9				TCL VOCs, TCL SVOCs TAL Metals
FTA-29-GP02	FTA-29-GP02-SS-AA0003-REG FTA-29-GP02-DS-AA0006-REG	0-1 5-8	FTA-29-GP02-SS-AA0004-FD	FTA-29-GP02-SS-AA0005-FS		TCL VOCs, TCL SVOCs TAL Metals
FTA-29-GP03(SS)	FTA-29-GP03-SS-AA0007-REG FTA-29-GP03-DS-AA0008-REG	0-1 1-3			FTA-29-GP03-SS-AA0007-MS FTA-29-GP03-SS-AA0007-MSD	TCL VOCs, TCL SVOCs TAL Metals
FTA-29-GP04	FTA-29-GP04-SS-AA0009-REG FTA-29-GP04-DS-AA0010-REG	0-1 5-10				TCL VOCs, TCL SVOCs TAL Metals
FTA-29-GP05	FTA-29-GP05-DS-AA0011-REG	8-10				TCL VOCs, TCL SVOCs TAL Metals
FTA-29-GP06	FTA-29-GP06-DS-AA0012-REG	4-8				TCL VOCs, TCL SVOCs TAL Metals
FTA-29-GP07	FTA-29-GP07-DS-AA0013-REG	8-10				TCL VOCs, TCL SVOCs TAL Metals
FTA-29-GP08	FTA-29-GP08-DS-AA0014-REG	8-10				TCL VOCs, TCL SVOCs TAL Metals
FTA-29-GP09	FTA-29-GP09-DS-AA0015-REG	4-8			FTA-29-GP09-DS-AA0015-MS FTA-29-GP09-DS-AA0015-MSD	TCL VOCs, TCL SVOCs TAL Metals
FTA-29-GP10(SS)	FTA-29-GP10-DS-AA0016-REG	4-5	FTA-29-GP10-DS-AA0017-FD			TCL VOCs, TCL SVOCs TAL Metals
FTA-29-DEP01	FTA-29-DEP01-DEP-AA1004-REG	0-1				TCL VOCs, TCL SVOCs TAL Metals
FTA-29-DEP02	FTA-29-DEP02-DEP-AA1005-REG	0-1				TCL VOCs, TCL SVOCs TAL Metals

FD - Field duplicate.

FS - Field split.

ft. bgs - feet below ground surface.

MS/MSD - Matrix spike/matrix spike duplicate.

QA/QC - Quality assurance/quality control.

REG - Field sample.

SVOC - Semivolatile organic compound.

TAL - Target analyte list.

TCL - Target compound list.

VOC - Volatile organic compound.

**Table 3-3**

**Temporary Well Construction Summary  
11th Chemical Motor Pool Area, Parcels 29(7), 30(7), and 74(7)  
Fort McClellan, Calhoun County, Alabama**

<b>Temporary Well</b>	<b>Northing</b>	<b>Easting</b>	<b>Ground Elevation (ft amsl)</b>	<b>TOC Elevation (ft amsl)</b>	<b>Well Depth (ft bgs)</b>	<b>Screen Length (ft)</b>	<b>Screen Interval (ft bgs)</b>	<b>Well Material</b>
FTA-29-GP01*	1169629.781	666628.938	741.03	WA	9.0	5	4.00 - 9.00	1" ID Sch. 40 PVC
FTA-29-GP02	1168756.530	666776.831	754.82	755.80	10.0	5	4.75 - 9.75	2" ID Sch. 40 PVC
FTA-29-GP03(W)	1169055.158	666551.123	755.47	757.27	38.0	10	27.75 - 37.75	2" ID Sch. 40 PVC
FTA-29-GP04*	1169161.166	666659.556	750.88	WA	10.0	5	5.00 - 10.00	1" ID Sch. 40 PVC
FTA-29-GP05	1168774.547	666801.196	751.24	754.32	14.6	10	4.35 - 14.35	2" ID Sch. 40 PVC
FTA-29-GP06	1168645.579	666631.344	761.92	763.71	32.0	10	21.75 - 31.75	2" ID Sch. 40 PVC
FTA-29-GP07	1169074.232	666519.055	756.74	759.17	29.5	10	19.25 - 29.25	2" ID Sch. 40 PVC
FTA-29-GP08	1169024.503	666535.403	757.13	759.13	38.0	10	27.75 - 37.75	2" ID Sch. 40 PVC
FTA-29-GP09*	1169213.726	666704.954	748.58	WA	10.0	5	5.00 - 10.00	1" ID Sch. 40 PVC
FTA-29-GP10(W)	1169069.146	666645.244	752.66	753.47	14.0	10	3.75 - 13.75	2" ID Sch. 40 PVC

Temporary wells installed using hollow-stem auger, except as noted by \*.

\* Temporary well installed using direct-push technology.

Horizontal coordinates were referenced to the U.S. State Plane Coordinate System, Alabama East Zone, North American Datum (NAD83), 1983.

Elevations were referenced to the North American Vertical Datum of 1988 (NAVD88).

1" ID Sch. 40 PVC - 1-inch inside diameter, Schedule 40, polyvinyl chloride.

2" ID Sch. 40 PVC - 2-inch inside diameter, Schedule 40, polyvinyl chloride.

bgs - Below ground surface.

ft - Feet.

amsl - Above mean sea level.

TOC - Top of casing.

WA - Well abandoned.

**Table 3-4**

**Groundwater Elevations  
11th Chemical Motor Pool Area, Parcels 29(7), 30(7), and 74(7)  
Fort McClellan, Calhoun County, Alabama**

<b>Well Location</b>	<b>Date</b>	<b>Depth to Water (ft btoc)</b>	<b>Top of Casing Elevation (ft amsl)</b>	<b>Ground Elevation (ft amsl)</b>	<b>Groundwater Elevation (ft amsl)</b>
FTA-29-GP02	14-Mar-00	5.24	755.80	754.82	750.56
FTA-29-GP03(W)	14-Mar-00	8.69	757.27	755.47	748.58
FTA-29-GP05	14-Mar-00	7.91	754.32	751.24	746.41
FTA-29-GP06	14-Mar-00	4.87	763.71	761.92	758.84
FTA-29-GP07	14-Mar-00	10.55	759.17	756.74	748.62
FTA-29-GP08	14-Mar-00	10.33	759.13	757.13	748.80
FTA-29-GP10(W)	14-Mar-00	7.52	753.47	752.66	745.95
FTA-29-MW02	14-Mar-00	4.41	755.40	755.89	750.99
FTA-29-MW03	14-Mar-00	3.61	753.12	753.57	749.51
FTA-29-MW04	14-Mar-00	3.73	753.00	753.22	749.27
FTA-29-MW05	14-Mar-00	5.43	753.34	753.59	747.91

Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).

ft - Feet.

btoc - Below top of casing.

amsl - Above mean sea level.

Table 3-5

**Groundwater Sample Designations and QA/QC Samples  
11th Chemical Motor Pool Area, Parcels 29(7), 30(7), and 74(7)  
Fort McClellan, Calhoun County, Alabama**

Sample Location	Sample Designation	QA/QC Samples			Analytical Suite
		Field Duplicates	Field Splits	MS/MSD	
FTA-29-GP01	FTA-29-GP01-GW-AA3001-REG				TCL VOCs, TCL SVOCs TAL Metals
FTA-29-GP02	FTA-29-GP02-GW-AA3002-REG				TCL VOCs, TCL SVOCs TAL Metals
FTA-29-GP03(W)	FTA-29-GP03-GW-AA3003-REG				TCL VOCs, TCL SVOCs TAL Metals
FTA-29-GP04	FTA-29-GP04-GW-AA3004-REG				TCL VOCs, TCL SVOCs TAL Metals
FTA-29-GP05	FTA-29-GP05-GW-AA3005-REG				TCL VOCs, TCL SVOCs TAL Metals
FTA-29-GP06	FTA-29-GP06-GW-AA3006-REG				TCL VOCs, TCL SVOCs TAL Metals
FTA-29-GP07	FTA-29-GP07-GW-AA3020-REG				TCL VOCs, TCL SVOCs TAL Metals
FTA-29-GP08	FTA-29-GP08-GW-AA3008-REG				TCL VOCs, TCL SVOCs TAL Metals
FTA-29-GP09	FTA-29-GP09-GW-AA3009-REG	FTA-29-GP09-GW-AA3010-FD	FTA-29-GP09-GW-AA3011-FS		TCL VOCs, TCL SVOCs TAL Metals
FTA-29-GP10(W)	FTA-29-GP10-GW-AA3012-REG				TCL VOCs, TCL SVOCs TAL Metals
FTA-29-MW02	FTA-29-MW02-GW-AA3013-REG				TCL VOCs, TCL SVOCs TAL Metals
FTA-29-MW03	FTA-29-MW03-GW-AA3014-REG	FTA-29-MW03-GW-AA3015-FD	FTA-29-MW03-GW-AA3016-FS	FTA-29-MW03-GW-AA3014-MS FTA-29-MW03-GW-AA3014-MSD	TCL VOCs, TCL SVOCs TAL Metals
FTA-29-MW04	FTA-29-MW04-GW-AA3017-REG				TCL VOCs, TCL SVOCs TAL Metals
FTA-29-MW05	FTA-29-MW05-GW-AA3018-REG				TCL VOCs, TCL SVOCs TAL Metals

FD - Field duplicate.

FS - Field split.

MS/MSD - Matrix spike/matrix spike duplicate.

QA/QC - Quality assurance/quality control.

REG - Field sample.

SVOC - Semivolatile organic compound.

TAL - Target analyte list.

TCL - Target compound list.

VOC - Volatile organic compound.

Table 3-6

**Groundwater and Surface Water Field Parameters  
11th Chemical Motor Pool Area, Parcels 29(7), 30(7), and 74(7)  
Fort McClellan, Calhoun County, Alabama**

Sample Location	Date	Medium	Specific Conductivity <sup>a</sup> (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Temperature (°C)	Turbidity (NTUs)	pH (SU)
FTA-29-GP01	20 & 21-OCT-98 <sup>b</sup>	GW	0.454	2.06	-31	24.81	NR (>1000)	6.99
FTA-29-GP02	16-DEC-98	GW	0.254	0.24	-154	18.45	815 <sup>d</sup>	9.85
FTA-29-GP03(W)	14-DEC-98	GW	0.576	0.11	-105	20.34	0.00	6.97
FTA-29-GP04	21-OCT-98	GW	0.785	4.36	-65	24.49	NR (<100)	6.73
FTA-29-GP05	15-DEC-98	GW	0.497	0.28	-87	16.34	>1000	6.65
FTA-29-GP06	04-DEC-98	GW	0.364	0.35	-53	23.70	792	7.36
FTA-29-GP07	08-DEC-98	GW	0.681	0.11	-132	22.67	15.6	6.99
FTA-29-GP08	14-DEC-98	GW	0.470	0.18	-140	20.59	0.00	7.09
FTA-29-GP09	08-OCT-98	GW	0.710	1.57	-26	22.40	NR (<100)	6.36
FTA-29-GP10(W)	14-DEC-98	GW	0.663	1.04	-47	19.93	9.70	6.60
FTA-29-MW02	09-NOV-98	GW	0.272	1.35	165	22.02	39.4	6.19
FTA-29-MW03	10-NOV-98	GW	0.395	1.14	-89	20.72	28.0	6.78
FTA-29-MW04	9 & 17-NOV-98 <sup>c</sup>	GW	0.464	4.12	-75	20.71	14.0	6.84
FTA-29-MW05	10-NOV-98	GW	0.347	0.90	-70	20.73	19.0	6.58
FTA-29-SW/SD01	20-OCT-98	SW	0.235	7.16	158	19.16	1.25	6.25
FTA-29-SW/SD02	20-OCT-98	SW	0.235	8.14	231	19.45	1.30	7.14
FTA-29-SW/SD03	20-OCT-98	SW	0.257	8.58	220	21.15	2.10	7.40

mS/cm - Millisiemen per centimeter.

mg/L - Milligram per liter.

mV - Millivolts.

°C - Degrees Celsius.

NTUs - Nephelometric turbidity units.

SU - Standard units.

GW - Groundwater.

SW - Surface water.

NR - Not recorded because of equipment malfunction; estimated turbidity given in parentheses.

<sup>a</sup> Specific conductivity values standardized to millisiemen per centimeter.

<sup>b</sup> VOCs collected on 20 Oct. 98. SVOCs and Metals collected on 21 Oct. 98 (parameters from 21 Oct. 98).

<sup>c</sup> SVOCs and Metals collected on 9 Nov. 98 (parameters from 9 Nov. 98). VOCs collected on 17 Nov. 98.

<sup>d</sup> Turbidity had fallen to 88 NTU by the time sample collection was completed.

**Table 3-7**

**Surface Water and Sediment Sample Designations  
11th Chemical Motor Pool Area, Parcels 29(7), 30(7), and 74(7)  
Fort McClellan, Calhoun County, Alabama**

Sample Location	Sample Designation	QA/QC Samples <sup>a</sup>			Analytical Suite
		Field Duplicates	Field Splits	MS/MSD	
FTA-29-SW/SD01	FTA-29-SW/SD01-SW-AA2001-REG FTA-29-SW/SD01-SD-AA1001-REG				TCL VOCs, TCL SVOCs, TAL Metals TOC, Grain Size (sediment only)
FTA-29-SW/SD02	FTA-29-SW/SD02-SW-AA2002-REG FTA-29-SW/SD02-SD-AA1002-REG				TCL VOCs, TCL SVOCs, TAL Metals TOC, Grain Size (sediment only)
FTA-29-SW/SD03	FTA-29-SW/SD03-SW-AA2003-REG FTA-29-SW/SD03-SD-AA1003-REG				TCL VOCs, TCL SVOCs, TAL Metals TOC, Grain Size (sediment only)

<sup>a</sup>No QA/QC samples specified in the site-specific field sampling plan.

FD - Field duplicate.

FS - Field split.

MS/MSD - Matrix spike/matrix spike duplicate.

QA/QC - Quality assurance/quality control.

REG - Field sample.

SVOC - Semivolatile organic compound.

TAL - Target analyte list.

TCL - Target compound list.

TOC - Total organic carbon.

VOC - Volatile organic compound.