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FORSUM

PHASE II RCRA FACILITY INVESTIGATION REPORT



3d Inf Div (Mech)

FOR

16 SOLID WASTE MANAGEMENT UNITS AT FORT STEWART, GEORGIA

VOLUME I OF III

Prepared for



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9.27 SWMU 31: DEH ASPHALT TANKS

9.27.1 History and Description of SWMU 31, DEH Asphalt Tanks

The DEH Asphalt Tanks (SWMU 31) were located in the south garrison area near Utility Street and the railroad tracks. The tanks were used to hold cut-back asphalt for use on the Installation. The history of operations for these tanks is unknown. Originally there were three ASTs located at the site. Two of the tanks were removed in 1993; the third one was a 20,000-gallon steel AST surrounded by an earthen berm that was removed in 1997. A site inspection in November 1993 indicated that the third AST was rusted and the paint was peeling, but there were no visible holes. Also during the site inspection, a smaller AST (with a capacity of less than 5,000 gallons), with rust and peeling paint, was identified in the bermed area. This AST was used to hold water for the trains that came into the area. There were no visible holes in the smaller AST, and there was no visible staining of soils. The smaller AST remains at the site; however, it is no longer operational. The waste characterization for this site includes asphalt and its associated by-products.

9.27.1.1 1993 Phase I RCRA Facility Investigation

In 1993, as part of the Phase I RFI, six surface soil samples were collected from inside and outside the berm and were analyzed for VOCs and TPH. No monitoring wells were installed at the site. The detected concentrations from the Phase I RFI are presented in Table 9.27-1. The sampling locations are presented in Figure 9.27-1.

Surface Soil. Concentrations of VOCs were not reported above the detection limit in the surface soil samples. TPH concentrations as heavy fuels were detected in two surface soil samples, with one concentration exceeding the 1993 GEPA guideline of 100 mg/kg for TPH.

9.27.2 Summary of Phase II RCRA Facility Investigation Activities

Initial screening consisted of using DPT techniques to collect groundwater samples from Geoprobe borings for VOC analysis. The results for Geoprobe screening locations GP1 through GP9 were used to determine the locations of new monitoring wells. A vertical-profile boring, VP1, was installed to determine the vertical extent of contamination. Groundwater samples were collected at 10-foot intervals and analyzed for VOCs. Subsurface soil samples were collected from the Geoprobe borings and analyzed for VOCs and SVOCs. The boring logs are presented in Appendix A.

Three monitoring wells were installed at the site based on results from the groundwater screening analyses. A surface soil sample and a subsurface soil sample were collected from each well. In addition, three surface soil samples were collected from within the boundary of the SWMU. All surface and subsurface soil samples were analyzed for VOCs and SVOCs. Surface and subsurface soil samples collected from monitoring wells were also analyzed for RCRA metals.

Phase II RFI sampling locations are presented in Figure 9.27-1. Boring logs and monitoring well diagrams are presented in Appendices A and B, respectively. Monitoring well construction details for the Phase II RFI wells are presented in Table 9.27-2.

Geotechnical samples were collected from the three monitoring wells, and the results are presented in Table 9.27-3. All new monitoring wells were developed until the turbidity was less than or equal to 10 NTUs. Monitoring well development data are presented in Table 9.27-4. Groundwater samples were collected from the monitoring wells and analyzed for VOCs, SVOCs, and RCRA metals. Conductivity, temperature, pH, DO, Redox, and turbidity were measured in the field during sampling, and the results are presented in Table 9.27-5.

9.27.3 Physical Characteristics of the Site

9.27.3.1 Topography

There is approximately 1 foot of relief across the site. The elevation of the site is approximately 88 feet amsl along the eastern boundary and slopes gently downward to approximately 87 feet amsl along the western boundary.

9.27.3.2 Surface drainage

A drainage ditch (lined with concrete tile) is located approximately 180 feet to the southeast of the site. Based on the topography, the surface water flow direction is to the southeast toward the drainage ditch.

9.27.3.3 Soils

The soils present across the site consist of alternating layers of sand and sandy silt, as indicated in cross sections A-A' and B-B' (Figures 9.27-2 and 9.27-3).

9.27.3.4 Hydrogeology

Groundwater was encountered at approximately 6.25 feet bgs along the eastern boundary of the site to approximately 5.5 feet bgs along its western boundary. The shallow groundwater flow direction across the site is to the southwest, and the hydraulic gradient is 0.0042 foot/foot (Figure 9.27-4).

9.27.3.5 Ecology

As stated in Section 8.2, the habitat at SWMU 31 is classified as "managed grasslands." The site is located in the southwestern portion of the garrison area and comprises approximately 0.22 acre (Figure 9.27-1). Railroad tracks run through the site, and a state road passes within 300 feet of its boundaries to the northwest. Native grasses and weeds occur along the railroad tracks, within the area of the former tanks, and adjacent to the forest. Much of the remaining area is successional, and native grasses are abundant. Pine forest lies to the south and southwest, adjacent to the site's boundaries.

9.27.4 Nature and Extent of Contamination

9.27.4.1 Surface soil

Six surface soil samples were collected from three surface soil locations and three monitoring wells. All surface soil samples were analyzed for VOCs and SVOCs. Surface soil samples from the three monitoring wells were also analyzed for RCRA metals. The results of the surface soil analyses are presented in Table 9.27-6 and Figure 9.27-5.

VOCs. Toluene was detected in three of six surface soil samples at concentrations of 0.0795 mg/kg at SS7, 0.208 mg/kg at SS8, and 0.263 mg/kg at SS9. Toluene is considered to be an SRC.

SVOCs. Thirteen SVOCs were detected in surface soil samples from the surface soil sampling locations. No SVOCs were detected in the surface soil samples collected from the three monitoring wells. Acenaphthylene was detected in only SS9 at a concentration of 1.37 mg/kg. Benzo(a)anthracene was detected in SS8 and SS9 at concentrations of 8.93 mg/kg and 5.77 mg/kg, respectively. Benzo(a)pyrene was detected in SS8 and SS9 at concentrations of 8.65 mg/kg and 5.1 mg/kg, respectively. Benzo(b)fluoranthene was detected in all three

surface soil samples at concentrations ranging from 0.198 mg/kg at SS7 to 9.66 mg/kg at SS8. Benzo(*g,h,i*)perylene was detected in only SS8 and SS9 at concentrations of 4.13 mg/kg and 2.84 mg/kg, respectively. Benzo(*k*)fluoranthene was detected in only SS8 at a concentration of 4.42 mg/kg. Bis(2-ethylhexyl)phthalate was detected in only SS9 at a concentration of 16.9 mg/kg. Chrysene was detected in SS8 and SS9 at concentrations of 17.7 mg/kg and 10.4 mg/kg, respectively. Dibenzo(*a,h*)anthracene was detected in only SS9 at a concentration of 0.871 mg/kg. Fluoranthene was detected in all three surface soil samples at concentrations ranging from 0.207 mg/kg at SS7 to 18.9 mg/kg at SS8. Indeno(*1,2,3-cd*)pyrene was detected in SS8 and SS9 at concentrations of 4.56 mg/kg and 3.09 mg/kg, respectively. Phenanthrene was detected in SS8 and SS9 at concentrations of 29.9 mg/kg and 2.57 mg/kg, respectively. Pyrene was detected in all three surface soil samples at concentrations ranging from 0.283 mg/kg at SS7 to 30.1 mg/kg at SS8. Acenaphthylene, benzo(*a*)anthracene, benzo(*a*)pyrene, benzo(*b*)fluoranthene, benzo(*g,h,i*)perylene, benzo(*k*)fluoranthene, bis(2-ethylhexyl)phthalate, chrysene, dibenzo(*a,h*)anthracene, fluoranthene, indeno(*1,2,3-cd*)pyrene, phenanthrene, and pyrene are considered to be SRCs in surface soil.

RCRA Metals. Arsenic, barium, cadmium, chromium, mercury, and lead were detected in surface soil samples from the monitoring wells. Arsenic was the only metal detected in surface soil above its reference background criterion. Arsenic was detected at a concentration of 5.1 mg/kg, which is approximately two times the reference background criterion (2.10 mg/kg), at MW1, the site background location. No metals were detected above the reference background criteria in surface soil from monitoring wells located adjacent to the site; therefore, no RCRA metals are considered to be SRCs in surface soils.

9.27.4.2 Subsurface soil

Seven subsurface soil samples were collected from four Geoprobe borings and the three monitoring wells. All subsurface soil samples were analyzed for VOCs and SVOCs. Subsurface soil samples from the three monitoring wells were also analyzed for RCRA metals. The results of the subsurface soil analyses are presented in Table 9.27-7 and Figure 9.27-6.

VOCs. 1,1-Dichloroethene was detected in a subsurface soil sample from GP6 at a concentration of 0.263 mg/kg. 2-Butanone was detected in a subsurface soil sample from GP1 at a concentration of 0.0103 mg/kg. Benzene was detected in a subsurface soil sample from GP6 at a concentration of 0.305 mg/kg. Chlorobenzene was detected in a subsurface soil sample collected from GP6 at a concentration of 0.353 mg/kg. Ethylbenzene was detected in the subsurface soil sample from GP5 at a concentration of 0.0177 mg/kg. Toluene was detected in two of the seven subsurface soil samples at concentrations of 0.0287 mg/kg at MW3 and 0.412 mg/kg at GP6. Trichloroethene was detected in a subsurface soil sample collected from GP6 at a concentration of 0.311 mg/kg. Total xylenes were detected in the subsurface soil sample from GP5 at a concentration of 0.0943 mg/kg.

1,1-Dichloroethene, 2-butanone, benzene, chlorobenzene, ethylbenzene, toluene, trichloroethene, and total xylenes are considered to be SRCs in subsurface soils.

SVOCs. Eight SVOCs were detected in one subsurface soil sample, GP1. These eight SVOCs are considered to be SRCs and are as follows: benzo(*a*)anthracene (1.74 mg/kg), benzo(*a*)pyrene (2.25 mg/kg), benzo(*b*)fluoranthene (2.85 mg/kg), benzo(*g,h,i*)perylene (0.745 mg/kg), chrysene (1.96 mg/kg), fluoranthene (0.786 mg/kg), indeno(*1,2,3-cd*)pyrene (1.05 mg/kg), and pyrene (2.42 mg/kg). No SVOCs were detected at the other six subsurface soil sampling locations.

RCRA Metals. Arsenic, barium, chromium, lead, and mercury were detected in subsurface soil samples from monitoring wells; however, the concentrations of these metals were below the reference background criteria; therefore, no RCRA metals are considered to be SRCs in subsurface soils.

9.27.4.3 Groundwater

Fifteen groundwater samples were collected from the three monitoring wells, nine Geoprobe borings, and one vertical-profile boring. The groundwater samples from the Geoprobe borings and the vertical-profile boring were analyzed for VOCs and TPH. The groundwater samples from the monitoring wells were analyzed for VOCs, SVOCs, and RCRA metals. The results of the groundwater analyses are presented in Table 9.27-8 and Figure 9.27-7.

VOCs. 2-Butanone was detected in a groundwater sample collected at VP1 (6 feet to 10 feet) at a concentration of 18.6 µg/L. Acetone was detected in four of 15 groundwater samples at concentrations ranging from 34.5 µg/L at GP4 to 565 µg/L at GP6. Ethylbenzene was detected in four of 15 samples at concentrations ranging from 3.3 µg/L at GP9 to 27.1 µg/L at GP5. Total xylenes were detected in six of 15 samples at concentrations ranging from 3.6 µg/L at MW3 to 105 µg/L at GP5.

2-Butanone, acetone, ethylbenzene, and total xylenes are considered to be SRCs in groundwater.

SVOCs. Bis(2-ethylhexyl)phthalate was detected in a groundwater sample from MW3 at a concentration of 18.6 µg/L. The bis(2-ethylhexyl)phthalate at MW3 was believed to be the result of field or laboratory contamination; therefore, with the concurrence of GEPD (SAIC 1999a), the groundwater at all three monitoring wells was resampled for only bis(2-ethylhexyl)phthalate on July 8–9, 1999. Bis(2-ethylhexyl)phthalate was not detected during the resampling. The elevated concentration of bis(2-ethylhexyl)phthalate initially detected at MW3 was the result of field or laboratory contamination. Bis(2-ethylhexyl)phthalate is not considered to be an SRC at SWMU 31.

RCRA Metals. Barium and chromium were detected in three of 15 groundwater samples at concentrations below the reference background criteria; therefore, no RCRA metals are considered to be SRCs in groundwater.

TPH. TPH analysis was performed on the groundwater screening samples (i.e., nine Geoprobe samples and three groundwater samples collected at the vertical-profile boring). TPH was detected at concentrations ranging from 1,310 µg/L at VP1 at a depth of 26 feet to 30 feet to 905,000 µg/L at VP1 at a depth of 6 feet to 10 feet.

9.27.4.4 Surface water

No surface water samples were collected at this SWMU because no surface water pathway exists.

9.27.4.5 Sediment

No sediment samples were collected at this SWMU because no sediment pathway exists.

9.27.5 Interim Removal Action

As determined by the Phase II RFI, the soil contaminants were essentially confined to surface soil (0 foot to 2 feet bgs) and confined within and along the bermed area and to a depth of 4 feet to 6 feet bgs at GP6. With the concurrence of GEPD, Fort Stewart performed an IRA at SWMU 31, April 12–20, 1999. The IRA was performed by Earth Tech, Inc., and included the removal of one AST and associated concrete supports, one abandoned utility pole, approximately 20 railroad ties, and an estimated 1,730 cubic yards of soil (Earth Tech 1999a). After the tank was removed, the earthen berm surrounding the site was removed, and an excavation area approximately 270 feet long by 30 feet wide was created. The area of excavation is presented in Figure 9.27-8. The site was excavated to an estimated depth of 3 feet bgs, except for an area of approximately

100 square feet, which was excavated to an estimated depth of 11 feet bgs. Twelve confirmatory samples (DG01-1 through DG12-1, eight at 3 feet bgs and four at 7 feet bgs) were taken after the removal of structures and excavation of soil. Soil samples were analyzed for VOCs and SVOCs. A groundwater sample (DGW1-1) was collected from groundwater encountered at approximately 7 feet bgs during excavation activities in the area excavated to 11 feet. The area of excavation and the sample locations were approved by Fort Stewart DPW personnel (Figure 9.27-8). The site was backfilled upon completion of overexcavation activities. Approximately 1,670 cubic yards of soil from Fort Stewart's borrow pit and 100 cubic yards of crusher run gravel were used to backfill the excavation. A portion of the aggregate was used as backfill material for the portion of the excavation below the water table to achieve proper compaction of material. The remaining aggregate was used to replace railroad ballast removed during the removal action. The area was then double seeded and mulched with 60 bales of hay. The results of the confirmatory sampling are presented in Table 9.27-9 and Figure 9.27-8.

9.27.5.1 Subsurface Soil (IRA)

VOCs. Low concentrations of six VOCs were detected in subsurface soil confirmatory samples. 4-Methyl-2-pentanone was detected at a concentration of 0.002 mg/kg at the D01-1 subsurface sample location. Acetone was detected in all subsurface soil samples at concentrations ranging from 0.007 mg/kg at D07-1 and D08-1 to 0.025 mg/kg at D10-1 and D11-1. Chloroform was detected at a concentration of 0.001 mg/kg at D08-1. Methylene chloride was detected at a concentration of 0.035 mg/kg at D12-1. Toluene was detected in 11 of 12 subsurface soil samples at concentrations ranging from 0.001 mg/kg at D12-1 to 0.004J mg/kg at D11-1. Total xylenes were detected at a concentration of 0.076J mg/kg at D11-1. 4-Methyl-2-pentanone, acetone, chloroform, methylene chloride, toluene, and total xylenes are considered to be SRCs in subsurface soil.

SVOCs. Low concentrations of 17 SVOCs were detected in subsurface soil confirmatory samples and are considered to be SRCs. These included 2-methylnaphthalene, acenaphthene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, bis(2-ethylhexyl)phthalate, chrysene, di-N-octyl phthalate, dibenzofuran, fluoranthene, fluoranthene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene.

9.27.5.2 Groundwater in the Excavation (IRA)

VOCs. No VOCs were detected in the groundwater (DGW-1) collected from the excavation.

SVOCs. No SVOCs were detected in the groundwater (DGW-1) collected from the excavation.

9.27.5.3 Site-related Contaminant Summary

SRCs by medium and the corresponding maximum concentrations are presented in Table 9.27-10. The SRCs were developed from the results of the Phase II RFI data and the IRA. During the IRA surface soil was removed to approximately 3 feet to 7 feet bgs within and around the bermed area (see Section 9.27.5). A significant number of soil locations at which constituents had been detected were eliminated; therefore, the concentration of the constituent detected during the IRA was used for the locations within and around the bermed area. Specifically, for surface soil only, data from MW1 (background), MW2, and MW3 were used to determine SRCs. For subsurface soil, all the subsurface soil results from the IRA (Table 9.27-9) and the results from MW1 (background), MW2, and MW3 from the Phase II RFI were combined to develop the SRCs. With the concurrence of GEPA, the results of the resampling of groundwater for bis(2-ethylhexyl)phthalate (July 1999) replaced the bis(2-ethylhexyl)phthalate results from the Phase II RFI.

9.27.6 Fate and Transport Considerations

This section presents the site-specific components of the CSM developed for SWMU 31 and describes the contaminant release mechanisms through the primary transport medium (groundwater). This section also discusses the fate and transport of contaminants at the site with respect to their leachability and natural attenuation. This section is a site-specific extension for SWMU 31 of Chapter 6.0, which presents a general discussion on the contaminant fate and transport for the 16 SWMUs.

9.27.6.1 Conceptual Site Model

Water Balance Components

The annual average water balance estimates for the site indicate that evapotranspiration accounts for 65.02 percent (31.21 inches) of the total annual precipitation (48 inches). Consequently, approximately 35 percent (16.8 inches) of the total annual precipitation is available for flow. Groundwater recharge accounts for 33.5 percent (16.08 inches) of total precipitation, while surface runoff accounts for 1.5 percent (0.71 inch) of total precipitation.

Contaminant Release and Migration Pathways

Past and current release and migration pathways are listed below.

- Rainwater percolating through contaminated soil below the site leached contaminants and transported them to the water table.
- Groundwater flow transported contaminants within the water table aquifer.

Additional current pathways might include the two described below.

- Organic compounds in groundwater and probably in soil are being biologically degraded.
- Organic compounds in soil and probably in groundwater are being volatilized.

The most likely pathway of contaminant migration at the site is via groundwater flow within the water table aquifer. There are no potential surface water features at this site. The nearest downgradient surface water body is located approximately 1,200 feet west of the site; therefore, surface drainage is not considered a potential migration pathway.

In the saturated zone, the contaminants are carried laterally, either in solution or adsorbed to fine particulates (colloids), to the hypothetical receptor locations. Groundwater velocity is a function of hydraulic conductivity, hydraulic gradient, and effective porosity of soil. No slug test was performed at the site to determine the horizontal hydraulic conductivity, which was estimated to be $3.4\text{E-}03$ centimeters per second based upon the hydraulic conductivity measured in the laboratory. The average hydraulic gradient for the site was calculated to be 0.0042 foot/foot. Assuming an effective porosity of 0.30 [based on the specific yield of sands (Mills et al. 1985)], the groundwater velocity is calculated to be approximately 49.3 feet/year in a westward direction.

9.27.6.2 Fate and transport analysis

Results of Soil Leachability Analysis

None of the detected metals were identified as SRCs; therefore, no leachability analysis was performed for the metals.

Among the six VOCs (SRCs) in soils, only methylene chloride was identified as a CMCOPC based on its leachability to groundwater (Table 9.27-11). Among the 17 SVOCs (SRCs), only 2-methylnaphthalene was identified as a CMCOPC based on its leachability to groundwater (Table 9.27-11). 2-Methylnaphthalene was detected at a concentration of 29.89 mg/kg, only slightly above its GSSL of 22.574 mg/kg.

To evaluate the leaching of CMCOPCs to groundwater, groundwater concentrations of CMCOPCs are compared to MCLs/RBCs. Neither of the CMCOPCs (methylene chloride or 2-methylnaphthalene) was detected in groundwater. The groundwater concentration of acetone (565 µg/L) exceeded its RBC (370 µg/L); however, it was not identified as a CMCOPC.

9.27.7 Human Health Preliminary Risk Evaluation of SWMU 31

SRCs were identified for the following media: surface soil, subsurface soil, and groundwater. Evaluation of the potential risks resulting from exposure to these constituents and the identification of HHCOPCs are addressed in this section.

9.27.7.1 Exposure evaluation

The exposure evaluation addresses what human receptor populations, both on-site and off-site, might be exposed to contaminants present at the site. The exposure evaluation also addresses how contaminants might migrate and the potential exposure pathways for the various receptors.

Receptor Assessment

The site is currently inactive and is covered by grass. The site is located within the garrison area. The site is not secured and is located in a remote area, so juvenile trespassers might visit the site.

The potential receptor populations include:

- occupational populations (individuals occasionally visiting the site),
- construction workers (future populations),
- juvenile trespasser, and
- off-site occupational receptors.

Migration and Exposure Pathway Analysis

The site is vegetated; therefore, release of fugitive dust is not a significant exposure pathway. Bioaccumulation into wildlife is not a viable migration pathway. Wildlife might graze in the area, but given the amount of human activity near this site and the amount of open grazing area, it is unlikely that wildlife would use this site as a primary foraging area.

As indicated in Section 9.27.5.2, there were two CMCOPCs identified for this site with the potential to leach into groundwater. However, groundwater (the surficial aquifer) from this site does not discharge to any surface water bodies; therefore, this is an incomplete migration/exposure pathway.

The potential migration and exposure pathways are shown in Figure 9.27-9. The on-site resident scenario is not considered to be a viable scenario for this site; however, in accordance with RBCA guidance, it is used to derive screening values. The exposure pathways associated with this scenario are presented to show what pathways would be associated with an on-site resident exposure scenario.

9.27.7.2 Risk evaluation

SRCs were identified in subsurface soils and groundwater. The results of the human health risk screening are given below.

Six VOCs and 17 SVOCs were identified in subsurface soil. None of the maximum concentrations of the constituents exceeded their respective screening values (Table 9.27-12); therefore, there are no HHCOPCs in subsurface soil.

SRCs for groundwater include four volatile organics. The maximum concentration of acetone exceeded its screening value, while the concentrations of the remaining contaminants were below their respective screening values (Table 9.27-12).

The maximum concentration of acetone (565 µg/L) was above its screening level (61 µg/L). Acetone is considered to be an HHCOPC in groundwater.

9.27.7.3 Uncertainties

Surrogate values were used for some of the PAHs. The screening value for pyrene was used for phenanthracene. Although these compounds are chemically similar, they might have different toxicities; therefore, the actual screening values for these compounds might be greater or less than the values used. Additional human health uncertainties have been addressed in Section 7.5 of the HHPRE (Chapter 7.0).

9.27.8 Ecological Preliminary Risk Evaluation of SWMU 31

The EPRE was conducted in accordance with GEPD (1996) guidance (see Chapter 8.0). At sites where surface water, sediment, or groundwater was collected, an ESV comparison was conducted. If ECOPCs for aquatic biota were identified in surface water, sediment, or groundwater based on the ESV comparison (Step i), then further evaluation was required for those media. If no ECOPCs were identified based on the Step i screening of those media, then those ECOPCs were not considered further. At sites where surface soil was collected, substances detected in surface soil were evaluated in EPRE Steps ii through v because there are no ESVs for surface soil. The results of the five steps of the EPRE are presented below.

9.27.8.1 Ecological screening value comparison (Step i)

There is no surface water or sediment at the site. Potential SRCs in surface soil were removed by the IRA; therefore, there are no SRCs in surface soil.

No RCRA metals were detected in groundwater at concentrations exceeding the reference background criteria. Four VOCs were detected in groundwater. The results of the ESV comparison for groundwater are presented

in Table 9.27-13. The only ECOPCs identified by the ESV comparison were total xylenes because they were detected at a concentration exceeding the ESV.

Because there are no ESVs for soil, all analytes detected in soil were evaluated further in EPRE Steps ii through v.

9.27.8.2 Preliminary problem formulation (Step ii)

The ecological habitat is described in Section 9.27.3.5. The preliminary assessment endpoints, ecological receptors, and surrogate species representative of those receptors selected for evaluation in the preliminary risk calculation are described in Section 8.2.

9.27.8.3 Preliminary effects (Step iii)

In the EPRE, TRVs were required for shrews and robins ingesting contaminated biota exposed to surface soil at the site and for raccoons ingesting water. The derivation of TRVs is discussed in Section 8.3. The TRVs derived for shrews and raccoons are presented in Table 8-5, and TRVs for robins are presented in Table 8-6.

9.27.8.4 Preliminary exposure (Step iv)

Ecological receptors are probably exposed by ingestion of contaminated soil or of biota exposed to contaminated soil and by ingestion of drinking water. The exposure parameters for the surrogate species—shrews, raccoons, and robins—are presented in Table 8-7.

9.27.8.5 Preliminary risk calculation (Step v)

The preliminary risk calculation (Step v) uses HQs, the ratios of the measured maximum concentrations and the TRVs, to evaluate the potential for risk. The HQs of ECOPCs with consistent modes of toxicity and effects endpoints are added to calculate an HI. Metals are assumed to have distinct modes of toxicity and effects endpoints; therefore, HIs are calculated for only VOCs and SVOCs when no individual ECOPC has an HQ greater than one and HQs are calculated for more than one chemical. ECOPCs with HQs and HIs less than one indicate little to no likelihood of risk to the ecological receptors. An ERA using site-specific data is indicated for those ECOPCs with calculated HQs or HIs exceeding one (GEPD 1996).

Groundwater. The preliminary risk calculations for raccoons exposed to ECOPCs detected in groundwater are presented in Table 9.27-14. This table shows the maximum detected concentrations, ADDs, TRVs, and HQs for the receptors. No ECOPCs are present in groundwater at concentrations resulting in ADDs exceeding the TRVs for the surrogate species.

9.27.9 Conclusions and Risk Management and Site Recommendations for SWMU 31

9.27.9.1 Conclusions

Nature and Extent of Contamination

- Groundwater flows to the southwest, with an approximate hydraulic gradient of 0.0042 foot/foot.
- An IRA was performed at SWMU 31 in April 1999. The IRA consisted of excavating the bermed area and around the bermed area to an estimated depth of 3 feet bgs, except for an area of approximately 100 square feet, which was excavated to an estimated depth of 11 feet bgs (see Section 9.27.5). Soil

containing constituents initially detected (January 1998) in the surface soil and subsurface soil at SWMU 31 was removed. Twelve confirmatory samples were collected in the bottom of the excavation. The confirmatory subsurface soil samples represent the current characteristics of the soil in and around the bermed area. Therefore, the subsurface soil results from the confirmatory sampling and Phase II RFI soil results from the MW2 and MW3 locations (the only soil sampling locations remaining outside the area of excavation after the IRA) were used as the data set to determine SRCs.

- No RCRA metals were detected above the reference background criteria in surface soil, subsurface soil, or groundwater.
- No VOCs or SVOCs were detected in surface soil.
- Six VOCs (4-methyl-2-pentanone, acetone, methylene chloride, chloroform, toluene, and total xylenes) and 17 SVOCs (2-methylnaphthalene, acenaphthene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, bis(2-ethylhexyl)phthalate, chrysene, di-N-octyl phthalate, dibenzofuran, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene) were detected in subsurface soil and are considered to be SRCs in subsurface soils.
- VOCs considered to be SRCs in groundwater are 2-butanone, acetone, ethylbenzene, and total xylenes.
- Bis(2-ethylhexyl)phthalate was detected above its MCL at one (MW3) of three groundwater monitoring well sample locations. The three monitoring wells were resampled in July 1999, and bis(2-ethylhexyl)phthalate was not detected, indicating that the initial bis(2-ethylhexyl)phthalate concentration was a result of field or laboratory contamination. Bis(2-ethylhexyl)phthalate is not considered to be an SRC in groundwater at SWMU 31.

Fate and Transport

- Methylene chloride (VOC) and 2-methylnaphthalene (SVOC) were identified as CMCOPCs, based on their leachability to groundwater. 2-Methylnaphthalene was detected at a concentration of 29.89 mg/kg, only slightly above its GSSL of 22.574 mg/kg. None of the CMCOPCs were detected in groundwater, including groundwater in the excavation pit.

Human Health Preliminary Risk Evaluation

- No HHCOPCs were identified in surface or subsurface soil.
- Acetone is considered to be an HHCOPC for groundwater.

Ecological Preliminary Risk Evaluation

- Total xylenes in groundwater are unlikely to be a potential hazard to aquatic receptors. Aquatic biota are unlikely to be exposed to concentrations of groundwater ECOPCs exceeding ESVs because groundwater is unlikely to migrate rapidly to surface water bodies downgradient of the site.

9.27.9.2 Risk management and site recommendations

- Methylene chloride (VOC) and 2-methylnaphthalene (SVOC) were identified as CMCOPCs based on their leachability to groundwater. 2-Methylnaphthalene was detected at a concentration of 29.89 mg/kg during the confirmatory sampling for the IRA, only slightly above its GSSL of 22.574 mg/kg. The maximum concentration of 2-methylnaphthalene was detected below the water table at a depth of 7 feet bgs. The maximum concentrations of 2-methylnaphthalene in the unsaturated zone (0.8332 mg/kg and 0.542 mg/kg) were much lower than its GSSL screening value (22.574 mg/kg). During the confirmatory sampling for the IRA, methylene chloride was detected (0.035 mg/kg) at only one location (D12-1), only slightly above its GSSL screening value (0.02 mg/kg). Neither methylene chloride nor 2-methylnaphthalene was detected in surface soil, subsurface soil, or groundwater during the Phase I or Phase II RFI sampling. Neither methylene chloride nor 2-methylnaphthalene was detected in groundwater in the excavation pit created during the IRA. Given the conservatism of the GSSL screening values and the apparent absence of methylene chloride and 2-methylnaphthalene in groundwater samples, even those collected from the shallow groundwater (less than 5 feet bgs), methylene chloride and 2-methylnaphthalene are not considered to be CMCOPCs and do not require further investigation and/or evaluation.
- Total xylenes in groundwater are potential ECOPCs for this site. Total xylenes are a potential hazard to aquatic biota if groundwater discharges to nearby surface water bodies. However, as stated in Section 9.27.6.1, groundwater at this site does not discharge to any nearby surface water bodies. Therefore, total xylenes in groundwater are eliminated as ECOPCs for this site and do not require further investigation.
- Acetone was identified as an HHCOPC in groundwater. A human health baseline risk assessment (Attachment 9.27A) was performed on acetone in groundwater. There is no current use of groundwater at the site; therefore, there are no current receptors. Potential future receptors include on-site and off-site Installation workers and residents. The results of the human health baseline risk assessment indicated that exposure of potential receptors to acetone in groundwater is below the target risk value of 1.0; therefore, acetone in groundwater is not likely to result in significant adverse health effects (see Section 9.27A.6). Further investigation and/or evaluation of acetone in groundwater is not required.
- An NFA status is recommended for SWMU 31 regarding further investigation of the site. If approved by GEPD, Fort Stewart respectfully requests that the Installation's RCRA Subpart B permit be amended to annotate the revised status of this SWMU. FSMR recommends that the three monitoring wells at SWMU 31 be abandoned by grouting the wells to the surface and removing the surface completion. Upon approval by GEPD of the revised final Phase II RFI Report, the monitoring wells around SWMU 31 will be abandoned within 90 days.

Table 9.27-1. Summary of Phase I RFI Results, SWMU 31

Analyte	Sample Location					
	SS1	SS2	SS3	SS4	SS5	SS6
<i>Surface Soil Samples</i>						
Heavy fuels (mg/kg)	<10.0	<10.0	<10.0	<10.0	1250.0	74.0

Table 9.27-2. Monitoring Well Construction Summary, SWMU 31

Well No.	Date Installed	Size/ Type	Coordinates	Total Depth (feet)	Screen Interval (feet bgs)	Top of Filter Pack Elevation (feet bgs)	Top of Casing Elevation (feet bgs)
31-MW1	1/28/98	2-inch PVC	N 676603.47 E 827748.40	15.0	5.0 to 15.0	3.0	90.61
31-MW2	1/28/98	2-inch PVC	N 676472.63 E 827463.43	15.0	5.0 to 15.0	3.0	88.71
31-MW3	1/28/98	2-inch PVC	N 676490.70 E 827455.09	15.0	5.0 to 15.0	3.0	89.11

Note: All elevations are NGVD 1929.

Table 9.27-3. Summary of Geotechnical Analyses, SWMU 31

Station	31-MW1	31-MW2	31-MW3
Sample ID	311113	311213	311313
Depth (feet bgs)	15 to 17	8 to 10	8 to 10
Moisture content (%)	26.7	28.3	19.9
Liquid limit	NP	NP	NP
Plastic limit	NP	NP	NP
Plasticity index	NP	NP	NP
Gravel (%)	0	0	0
Sand (%)	98.8	95.6	96
Fines (%)	1.2	4.4	4
Specific gravity	2.6	NA	NA
Porosity	0.42	NA	NA
Permeability (cm/sec)	3.40E-03	NA	NA
Total organic carbon (mg/kg)	1,820 ^a	NA	NA

^aSample ID is 311112, collected at 5 feet to 6 feet bgs.

NA = Not analyzed.

NP = Non-plastic.

Table 9.27-4. Well Development Summary, SWMU 31

Well No.	Date	Total Development Time (hours)	Total Volume Removed (gallons)	Final Turbidity Reading (NTUs)	Total Well Depth (feet bgs)
31-MW1	2/1/98	2 hours, 44 minutes	170	7.5	18.01
31-MW2	1/31/98	2 hours, 25 minutes	205	10.0	17.22
31-MW3	1/31/98	1 hour, 53 minutes	105	9.7	17.87

Table 9.27-5. Field Parameter Measurements during Groundwater Sampling, SWMU 31

Well No.	pH (su)	Conductivity (mS/cm)	Temperature (°C)	Turbidity (NTUs)	DO (µg/L)	Redox (mV)
31-MW1 ^a	3.82	87	16.27	17.8	1.17	183.4
31-MW2	4.24	59	15.66	9.3	3.32	62
31-MW3	2.94	90	16.20	5.7	5.93	42
Average ^b	3.59					

^aSite-specific background location.

^bAverage does not include site-specific background location.

Table 9.27-6. Summary of Analytes Detected in Surface Soil, SWMU 31

Station	31MW1 ^a	31MW2	31MW3	31SS7	31SS8	31SS9
Sample ID	311111	311211	311311	317711	317811	317911
Date	01/28/98	01/28/98	01/28/98	01/31/98	01/31/98	01/31/98
Depth (feet)	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab
Reference Background Criteria						
	0.00			0.0795	0.208	0.263
<i>Volatile Organic Compounds (mg/kg)</i>						
Toluene						
<i>Semivolatile Organic Compounds (mg/kg)</i>						
Acenaphthylene						1.37
Benzo(a)anthracene					8.93	5.77
Benzo(a)pyrene					8.65	5.1
Benzo(b)fluoranthene				0.198	9.66	7.78
Benzo(g,h,i)perylene					4.13	2.84
Benzo(k)fluoranthene					4.42	
Bis(2-ethylhexyl)phthalate						16.9
Chrysene					17.7	10.4
Dibenzo(a,h)anthracene						0.871
Fluoranthene				0.207	18.9	8.6
Indeno(1,2,3-cd)pyrene					4.56	3.09
Phenanthrene					29.9	2.57
Pyrene				0.283	30.1	13.2
<i>Metals (mg/kg)</i>						
Arsenic	5.1			NA	NA	NA
Barium	7	7.8	8.5	NA	NA	NA
Cadmium	0.1	0.07	0.07	NA	NA	NA
Chromium	1.5	2.3	2	NA	NA	NA
Lead	2.6	2.6	2.3	NA	NA	NA
Mercury		0.02		NA	NA	NA

^aSite-specific background location.

NA = Not analyzed.

Bold indicates concentrations above reference background criteria.

Table 9.27-7. Summary of Analytes Detected in Subsurface Soil, SWMU 31

Station	Reference Background Criteria	31GP1	31GP2	31GP5	31GP6	31MW1 ^a	31MW2	31MW3
Sample ID		31151	311251	311551	311651	311112	311212	311312
Date		01/14/98	01/14/98	01/14/98	01/14/98	01/28/98	01/28/98	01/28/98
Depth (feet)		4 to 6	2 to 4	4 to 6	4 to 6	5 to 6	3 to 5	3 to 5
Sample Type		Grab	Grab	Grab	Grab	Grab	Grab	Grab
<i>Volatile Organic Compounds (mg/kg)</i>								
1,1-Dichloroethene	0.00				0.263			
2-Butanone	0.00	0.0103						
Benzene	0.00				0.305			
Chlorobenzene	0.00				0.353			
Ethylbenzene	0.00			0.0177				
Toluene	0.00				0.412			0.0287
Trichloroethene	0.00				0.311			
Xylenes, total	0.00			0.0943				
<i>Semivolatile Organic Compounds (mg/kg)</i>								
Benzo(a)anthracene	0.00	1.74						
Benzo(a)pyrene	0.00	2.25						
Benzo(b)fluoranthene	0.00	2.85						
Benzo(g,h,i)perylene	0.00	0.745						
Chrysene	0.00	1.96						
Fluoranthene	0.00	0.786						
Indeno(1,2,3-cd)pyrene	0.00	1.05						
Pyrene	0.00	2.42						
<i>Metals (mg/kg)</i>								
Arsenic	8.04	NA	NA	NA	NA	1.5		
Barium	17.00	NA	NA	NA	NA	3.1	2.2	2
Chromium	11.60	NA	NA	NA	NA	0.76	0.8	1.2
Lead	11.10	NA	NA	NA	NA	1.3	1.5	1.2
Mercury	0.05	NA	NA	NA	NA	NA		0.04

^aSite-specific background location.

NA = Not analyzed.

Bold indicates concentrations above reference background criteria.

9.27-8. Summary of Analytes Detected in Groundwater, SWMU 31

Station	Reference Background Criteria	MCL	31GP1	31GP2	31GP3	31GP4	31GP5	31GP6	31GP7
Sample ID			314151	314251	314351	314451	314551	314651	314751
Date			01/14/98	01/14/98	01/14/98	01/14/98	01/14/98	01/14/98	01/21/98
Depth (feet)									
Sample Type			Grab	Grab	Grab	Grab	Grab	Grab	Grab
<i>Volatile Organic Compounds (µg/L)</i>									
2-Butanone	0.00								
Acetone	0.00					34.5	152	565	
Ethylbenzene	0.00	700					27.1		
Xylenes, total	0.00	10,000					105		
<i>Semivolatile Organic Compound (µg/L)</i>									
Bis(2-ethylhexyl)phthalate	0.00	6	NA	NA	NA	NA	NA	NA	NA
<i>Metals (µg/L)</i>									
Barium	71.72	2,000	NA	NA	NA	NA	NA	NA	NA
Chromium	3.56	100	NA	NA	NA	NA	NA	NA	NA
<i>Other Analytes (µg/L)</i>									
Total petroleum hydrocarbons	0.00						45,600		

Note: Footnotes appear on page 9.27-17.

Table 9.27-8. Summary of Analytes Detected in Groundwater, SWMU 31 (continued)

Station	Reference Background Criteria	MCL	31GP8	31GP9	31MW1 ^a	31MW2	31MW3	31MW1	31MW2	31MW3	31VP1	31VP1	31VP1
Sample ID			314851	314951	314111	314211	314311	314112	314212	314312	314B51	314B52	314B53
Date			01/21/98	01/21/98	02/24/98	02/24/98	02/25/98	07/08/99	07/08/99	07/08/99	01/30/98	01/30/98	01/30/98
Depth (feet)											6 to 10	16 to 20	26 to 30
Sample Type			Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
<i>Volatile Organic Compounds (µg/L)</i>													
2-Butanone	0.00							NA	NA	NA	18.6		
Acetone	0.00							NA	NA	NA	329		
Ethylbenzene	0.00	700		3.3				NA	NA	NA	26.7		3.5
Xylenes, total	0.00	10,000		18.4			3.6	NA	NA	NA	94.6	5.3	16
<i>Semivolatile Organic Compound (µg/L)</i>													
Bis(2-ethylhexyl)phthalate	0.00	6	NA	NA			18.6				NA	NA	NA
<i>Metals (µg/L)</i>													
Barium	71.72	2,000	NA	NA	57.4	22.5	28.2	NA	NA	NA	NA	NA	NA
Chromium	3.56	100	NA	NA	1.1	0.95	0.56	NA	NA	NA	NA	NA	NA
<i>Other Analytes (µg/L)</i>													
Total petroleum hydrocarbons	0.00				NA	NA	NA	NA	NA	NA	905,000		1,310

^aSite-specific background location.

NA = Not analyzed.

Bold indicates concentrations above reference background criteria.Boxed *italic* indicates concentrations above MCLs.

Table 9.27-9. Summary of Analytes Detected in Confirmatory Subsurface Soil Samples Collected during IRA, SWMU 31

Sample ID	Region III Industrial RBCs (mg/kg)	Reference Background Criteria	Sample Collection Date	Sample Depth (feet)	D01-1 935572 04/22/99 3	D01-IDUP ^W 935573 04/22/99 3	D02-1 935574 04/22/99 3	D03-1 935575 04/22/99 3	D04-1 935576 04/23/99 3	D05-1 935577 04/22/99 3	D06-1 935566 04/22/99 7	D07-1 935758 04/23/99 7	D08-1 935764 04/23/99 7	D09-1 935765 04/23/99 3	D10-1 935766 04/23/99 3	D11-1 935767 04/23/99 7	D12-1 935768 04/23/99 3	D12-IDUP ^W 935769 04/23/99 3
Volatile Organic Compounds (mg/kg), Method 8260B																		
4-Methyl-2-pentanone					0.002	0.001					0.01	0.007	0.007	0.008	0.025	0.0251		
Acetone	0.00	0.00	204,400		0.009	0.009	0.008	0.009	0.012	0.009	0.01	0.007	0.007	0.008	0.025	0.0251	0.01	0.014
Chloroform	0.00	0.00	938.23										0.001					
Methylene chloride	0.00	0.00	763.093														0.035	0.042
Toluene	0.00	0.00	408,800		0.002	0.002	0.002	0.002	0.003		0.003	0.002	0.003	0.002	0.002	0.0041	0.001	0.002
Xylenes, total	0.00	0.00	4,088,000													0.0761		
Semivolatile Organic Compounds (mg/kg), Method 8270C																		
2-Methylnaphthalene	0.00	0.00	40,880						0.08332					0.542		29.89		
Acenaphthene	0.00	0.00	122,640											0.04092		1.149		
Benzo(a)anthracene	0.00	0.00					0.06038		0.1108					0.05931			0.11	0.07986
Benzo(a)pyrene	0.00	0.00					0.08609		0.0759					0.03845			0.07564	0.05931
Benzo(b)fluoranthene	0.00	0.00	7.84				0.1116		0.1569					0.05944			0.1034	0.07542
Benzo(g,h,i)perylene	0.00	0.00					0.05395		0.07176								0.05369	0.04687
Benzo(k)fluoranthene	0.00	0.00	78.4				0.05732		0.07668								0.03524	
Bis(2-ethylhexyl)phthalate	0.00	0.00	410			1.684	0.7424		0.7967			0.05177	0.05603	0.05497	0.03806		0.08458	0.08812
Chrysene	0.00	0.00	784				0.08892		0.1543					0.0691			0.1422	0.09432
Di-N-octyl phthalate	0.00	0.00	40,880		0.1511	0.05348	0.05224											
Dibenzofuran	0.00	0.00	8,176						0.03548									
Fluoranthene	0.00	0.00	81,760						0.176					0.08094			0.2448	0.1304
Fluorene	0.00	0.00	81,760											0.08485		2.421	0.03821	
Indeno(1,2,3-cd)pyrene	0.00	0.00	7.84														0.04343	0.03598
Naphthalene	0.00	0.00	40,880						0.07604					0.118		7.265		
Phenanthrene	0.00	0.00							0.1796					0.1821		5.282	0.2036	0.08945
Pyrene	0.00	0.00	61,320						0.1788					0.102			0.2918	0.1745

J = Value is estimated.

*Duplicate data are used for QA evaluation. The data are not considered in nature and extent or SRC determination.

Table 9.27-10. Summary of Site-related Contaminants, SWMU 31

Analyte	Maximum Concentration (mg/kg)			Maximum Concentration (µg/L)	
	Surface Soil	Subsurface Soil	Sediment	Groundwater	Surface Water
<i>Volatile Organic Compounds</i>					
2-Butanone	ND	ND	NP	18.6	NP
4-Methyl-2-pentanone	ND	0.001	NP	ND	NP
Acetone	ND	0.025	NP	565	NP
Chloroform	ND	0.001	NP	ND	NP
Ethylbenzene	ND	ND	NP	27.1	NP
Methylene chloride	ND	0.035	NP	ND	NP
Toluene	ND	0.0287	NP	ND	NP
Xylenes, total	ND	0.076	NP	105	NP
<i>Semivolatile Organic Compounds</i>					
2-Methylnaphthalene	ND	29.89	NP	ND	NP
Acenaphthylene	ND	1.149	NP	ND	NP
Benzo(a)anthracene	ND	0.1108	NP	ND	NP
Benzo(a)pyrene	ND	0.08609	NP	ND	NP
Benzo(b)fluoranthene	ND	0.1569	NP	ND	NP
Benzo(g,h,i)perylene	ND	0.07176	NP	ND	NP
Benzo(k)fluoranthene	ND	0.07668	NP	ND	NP
Bis(2-ethylhexyl)phthalate	ND	0.7967	NP	ND	NP
Chrysene	ND	0.1543	NP	ND	NP
Di-N-octyl phthalate	ND	0.1511	NP	ND	NP
Dibenzofuran	ND	0.3548	NP	ND	NP
Fluoranthene	ND	0.2448	NP	ND	NP
Fluorene	ND	2.421	NP	ND	NP
Indeno(1,2,3-cd)pyrene	ND	0.04343	NP	ND	NP
Naphthalene	ND	7.265	NP	ND	NP
Phenanthrene	ND	5.282	NP	ND	NP
Pyrene	ND	0.2918	NP	ND	NP

ND = Not detected.

NP = No pathway exists.

Table 9.27-11. GSSL Screening of Site-related Contaminants in Soil, SWMU 31

Site-related Contaminant	Maximum Concentration	GSSL ^a	CMCOPC?
<i>Volatile Organic Compounds (mg/kg)</i>			
4-Methyl-2-pentanone	0.001	NA	NA
Acetone	0.025	16	No
Chloroform	0.001	0.6	No
Methylene chloride	0.035	0.02	Yes
Toluene	0.0287	12	No
Xylenes, total	0.076	190	No
<i>Semivolatile Organic Compounds (mg/kg)</i>			
2-Methylnaphthalene ^b	29.89	22,574	Yes
Acenaphthene	1.149	12,000	No
Benzo(a)anthracene	0.1108	2	No
Benzo(a)pyrene	0.08609	8	No
Benzo(b)fluoranthene	0.1569	5	No
Benzo(g,h,i)perylene	0.07176	394	No
Benzo(k)fluoranthene	0.07668	49	No
Bis(2-ethylhexyl)phthalate	0.7967	3,600	No
Chrysene	0.1543	160	No
Di-N-octyl phthalate	0.1511	10,000	No
Dibenzofuran ^c	0.3548	7.7	No
Fluoranthene	0.2448	4,300	No
Fluorene	2.421	560	No
Indeno(1,2,3-cd)pyrene	0.04343	14	No
Naphthalene	7.265	84	No
Phenanthrene ^{b,d}	5.282	80.4	No
Pyrene	0.2918	4,200	No

^aGSSL = EPA GSSL with a DAF of 20 for volatile and semivolatile organics is used; unless otherwise indicated, GSSL is taken from Soil Screening Guidance: Technical Background Document (EPA 1996a).

^bEPA-suggested GSSL is not available; GSSL is calculated following Soil Screening Guidance: Technical Background Document (EPA 1996a). GSSLs are back-calculated from MCL, if available; otherwise, GSSLs are back-calculated based on EPA Region III RBCs corresponding to 10⁻⁶ risk or HQ = 1 (SAIC 1999a).

^cEPA Region III soil screening level for groundwater migration (EPA 1999b).

^dRBC of pyrene was used to develop the GSSL for phenanthrene.

Table 9.27-12. Human Health Risk Screening for Subsurface Soil and Groundwater, SWMU 31

SUBSURFACE SOIL						
Analyte	Results > Detection Limit	Minimum Detect	Maximum Detect	EPA Region III Residential	HHCOPC?	Justification
Volatile Organic Compounds						
4-Methyl-2-pentanone	1/14	0.001	0.001	630	No	Max Detect < Risk Criteria
Acetone	12/14	0.007	0.025	780	No	Max Detect < Risk Criteria
Chloroform	1/14	0.001	0.001	78 ^a	No	Max Detect < Risk Criteria
Methylene chloride	1/14	0.035	0.035	85	No	Max Detect < Risk Criteria
Toluene	1/14	0.0287	0.0287	1,600	No	Max Detect < Risk Criteria
Xylenes, total	1/14	0.076	0.076	16,000	No	Max Detect < Risk Criteria
Semivolatile Organic Compounds						
2-Methylnaphthalene	3/14	0.08332	29.89	160	No	Max Detect < Risk Criteria
Acenaphthene	2/14	0.04092	1.149	470	No	Max Detect < Risk Criteria
Benzo(a)anthracene	4/14	0.05931	0.1108	0.87	No	Max Detect < Risk Criteria
Benzo(a)pyrene	4/14	0.03845	0.08609	0.087	No	Max Detect < Risk Criteria
Benzo(b)fluoranthene	4/14	0.05944	0.1569	0.87	No	Max Detect < Risk Criteria
Benzo(g,h,i)perylene	3/14	0.04687	0.07176	8.7 ^b	No	Max Detect < Risk Criteria
Benzo(k)fluoranthene	3/14	0.03524	0.07668	8.7	No	Max Detect < Risk Criteria
Bis(2-ethylhexyl)phthalate	7/14	0.03806	0.7967	46	No	Max Detect < Risk Criteria
Chrysene	4/14	0.0691	0.1543	87	No	Max Detect < Risk Criteria
Di-N-octyl phthalate	2/12	0.05224	0.1511	160	No	Max Detect < Risk Criteria
Dibenzofuran	1/14	0.3548	0.3548	31	No	Max Detect < Risk Criteria
Fluoranthene	3/14	0.08094	0.2448	310	No	Max Detect < Risk Criteria
Fluorene	3/14	0.03821	2.421	310	No	Max Detect < Risk Criteria
Indeno(1,2,3-cd)pyrene	1/12	0.03598	0.04343	0.87	No	Max Detect < Risk Criteria
Naphthalene	3/14	0.07604	7.265	160	No	Max Detect < Risk Criteria
Phenanthrene	4/14	0.08945	5.282	235 ^c	No	Max Detect < Risk Criteria
Pyrene	4/14	0.08455	0.2918	230	No	Max Detect < Risk Criteria

^aResidential screening value based on an HI = 0.1.

^bScreening value based on a toxicity equivalency factor of 0.01 (Chapter 7.0).

^cScreening value for pyrene was used as a surrogate for phenanthrene (Chapter 7.0).

Table 9.27-12. Human Health Risk Screening for Subsurface Soil and Groundwater, SWMU 31 (continued)

GROUNDWATER					
Analyte	Freq. of Detection	Minimum Detect	Maximum Detect	Human Health Criteria	HHCOPC? Justification
<i>Volatile Organic Compounds (µg/L)</i>					
2-Butanone	1/14	18.6	18.6	190	No Max Detect < Risk Criteria
Acetone	4/14	34.5	565	61	Yes Max Detect > Risk Criteria
Ethylbenzene	4/14	3.5	27.1	130	No Max Detect < Risk Criteria
Xylenes, total	6/14	3.6	105	1,200	No Max Detect < Risk Criteria

**Table 9.27-13. Ecological Screening Value Comparison for
Analytes Detected in Groundwater, SWMU 31**

Analyte	SWMU 31 Maximum	ESV	ECOPC Aquatic Biota?	Justification
<i>Volatile Organic Compounds (µg/L)</i>				
2-Butanone	18.6	14,000 ^a	No	Max Detect < ESV
Acetone	565	1,500 ^a	No	Max Detect < ESV
Ethylbenzene	27.1	453	No	Max Detect < ESV
Xylenes, total	105	1.8 ^a	Yes	Max Detect > ESV

^aChronic National Ambient Water Quality Criteria or Tier II values as reported in Suter and Tsao (1996), Table 1 or Table 3.

ESV = EPA Region IV ESVs (EPA 1996d) and, where indicated, alternative values for analytes without ESVs. Cells with double borders indicate concentrations exceeding ESVs or, when there is no ESV, concentrations that become ECOPCs by default.

Table 9.27-14. Preliminary Risk Calculations for ECOPCs in Groundwater, SWMU 31

ECOPC	C _{Max} (µg/L)	Raccoon		
		ADD (mg/kg/d) = C _{Max} × 0.001 × IRW	TRV (mg/kg/d)	HQ = ADD/ TRV
Volatile Organic Compounds				
Xylenes, total	105	8.40E-03	5.48E-01	1.53E-02

0.001 (mg/µg) = Conversion from µg to mg.

ADD = Average daily dose (mg/kg/d).

C_{Max} = Maximum detected concentration (µg/L).

HQ = Hazard quotient; HI = hazard index = sum of HQs.

IRW = Raccoon water ingestion rate (L/kg/d) = 0.080.

TRV = NOAEL (mg/kg/d).

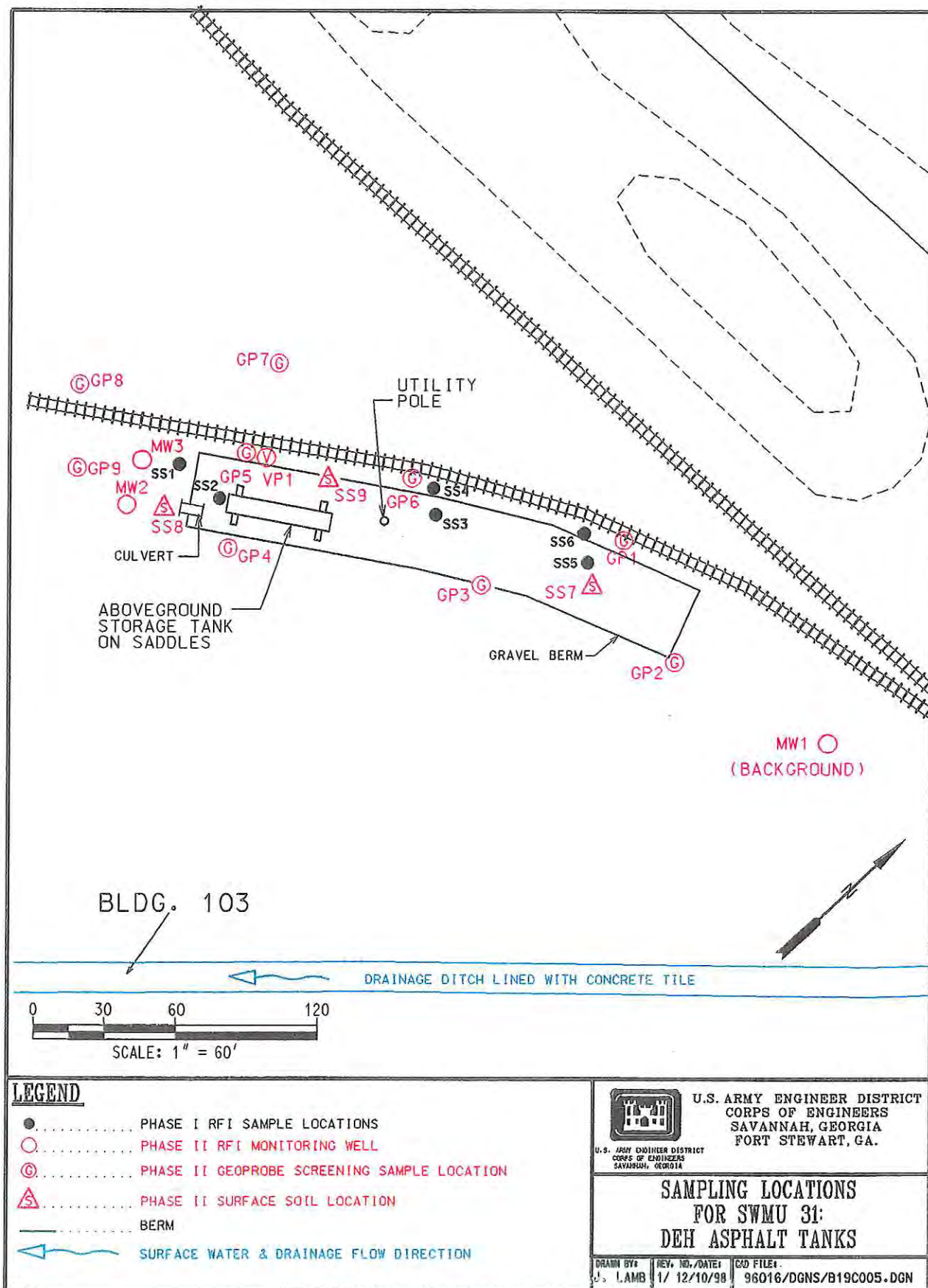
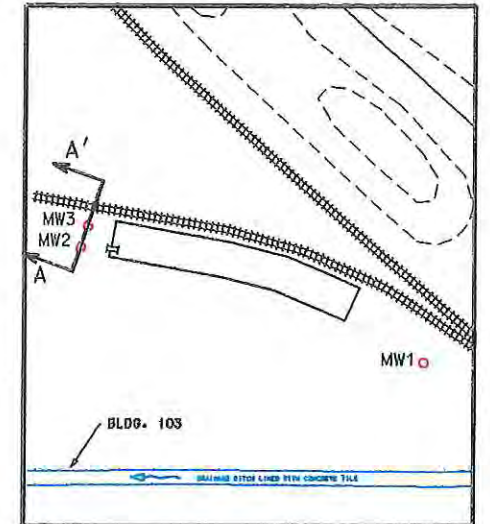


Figure 9.27-1. Sampling Locations, SWMU 31

LEGEND

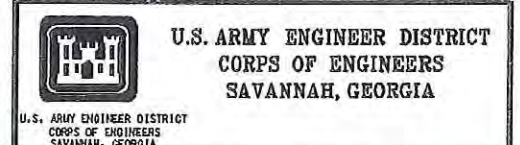


KEY PLAN

NTS

0 1 2 3 4 5 10
HORIZONTAL SCALE: 1" = 5'

0 1 2 3 4 5 10
VERTICAL SCALE: 1" = 5'



CROSS SECTION A-A' FOR SWMU 31: DEH ASPHALT TANKS

DRAWN BY: J. LAMB REV. NO./DATE: 01/07/20/98 CAD FILE: 96016/DGNS/B19CS005A.DGN

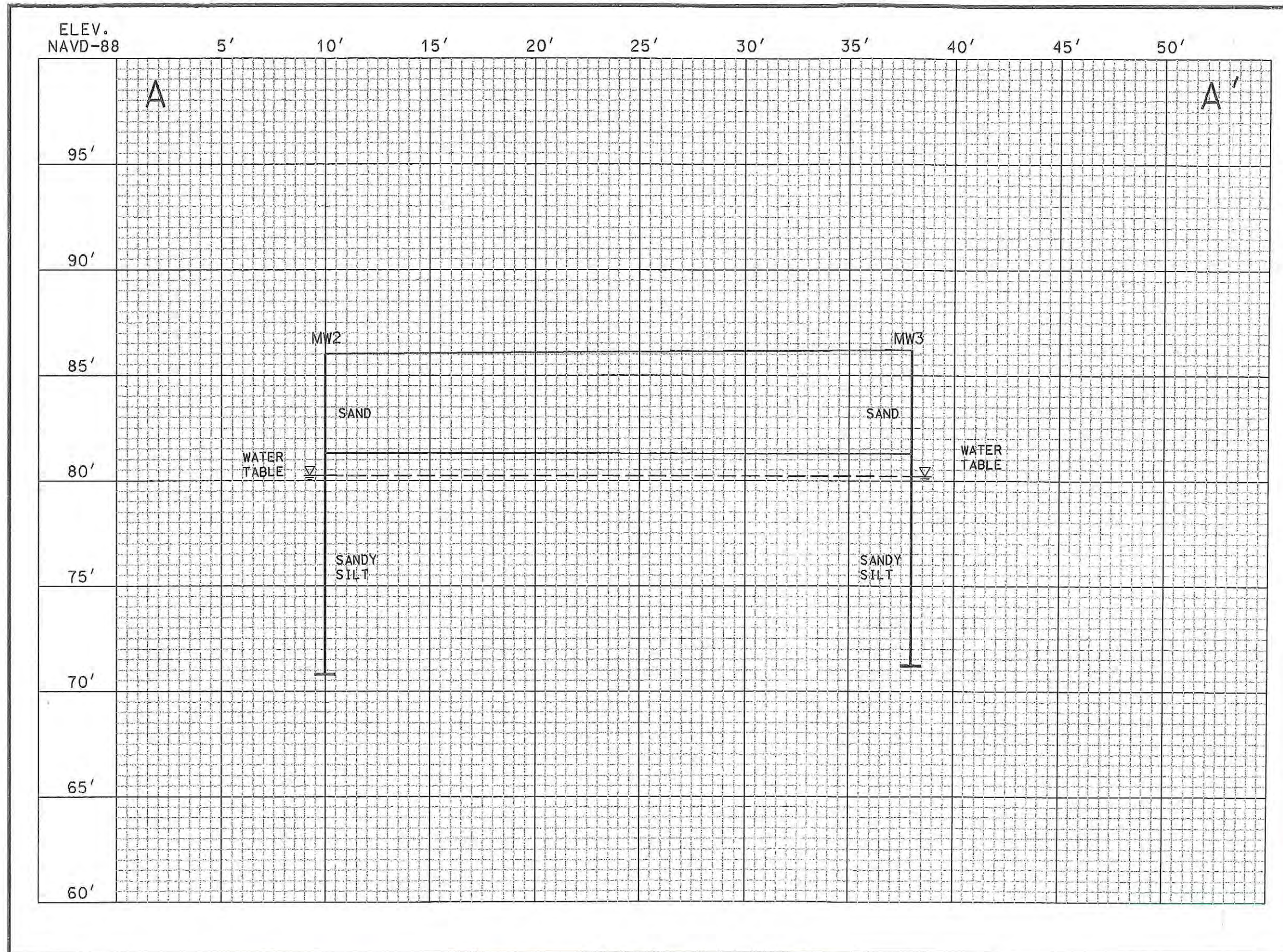
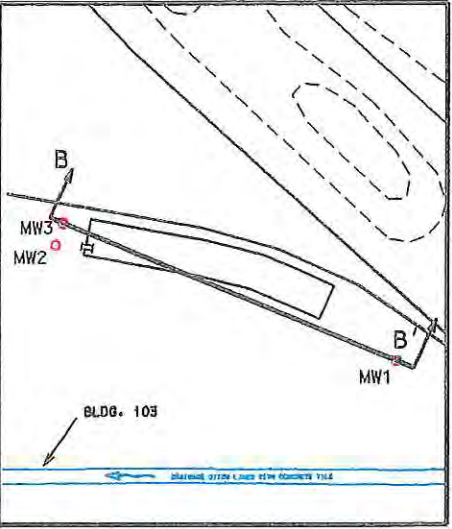
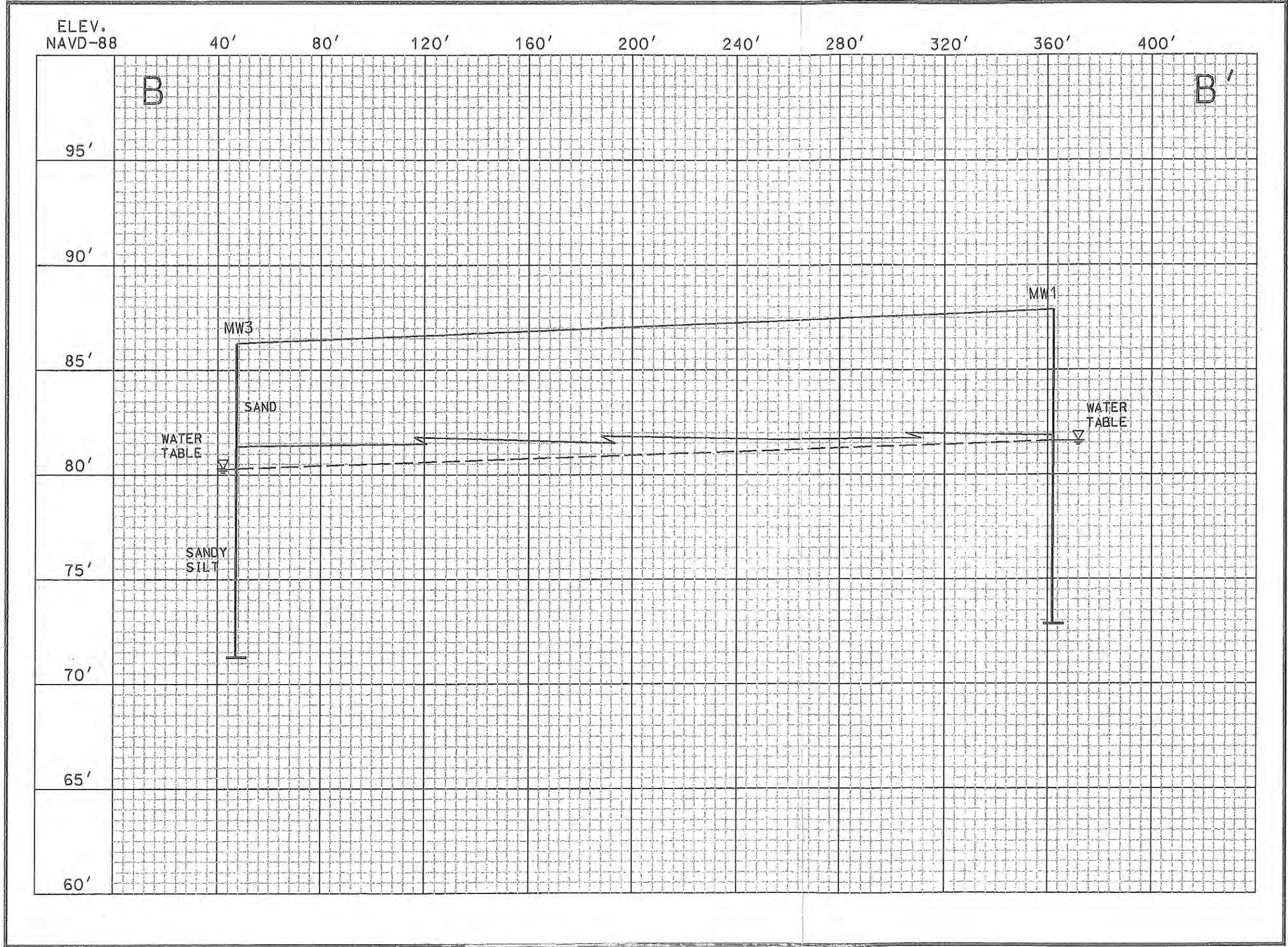


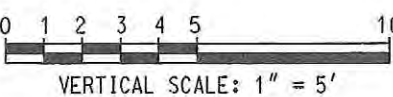
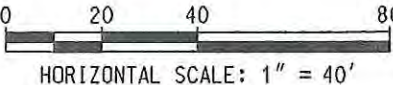
Figure 9.27-2. Cross Section A-A', SWMU 31

LEGEND



KEY PLAN

NTS



U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA

CROSS SECTION B-B'
FOR SWMU 31:
DEH ASPHALT TANKS

DRAWN BY: J. LAMB
REV. NO./DATE: 01/07/20/98
CAD FILE: 96016/DGNS/B19CS005B.DGN

Figure 9.27-3. Cross Section B-B', SWMU 31

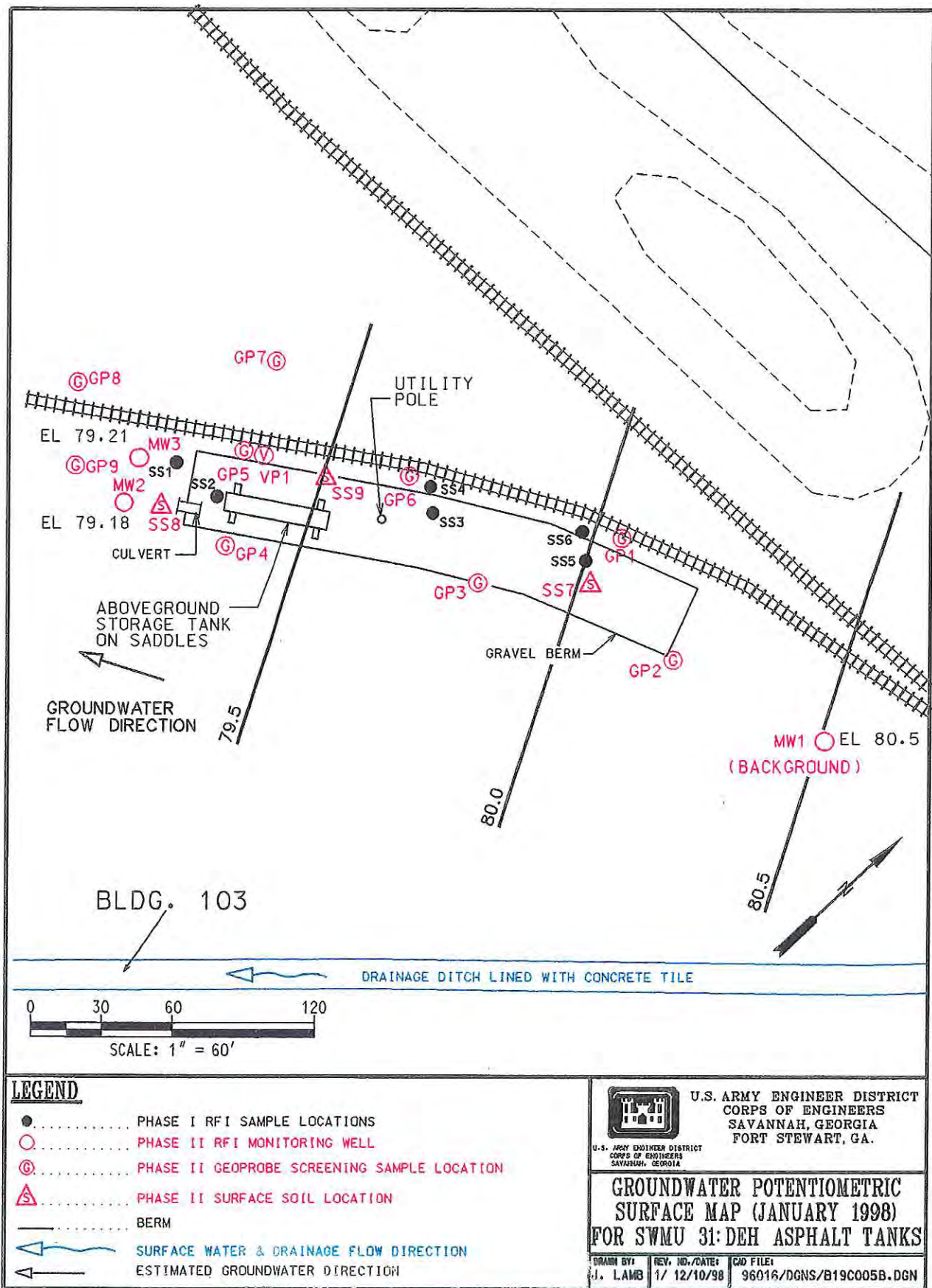


Figure 9.27-4. Groundwater Potentiometric Surface Map, SWMU 31

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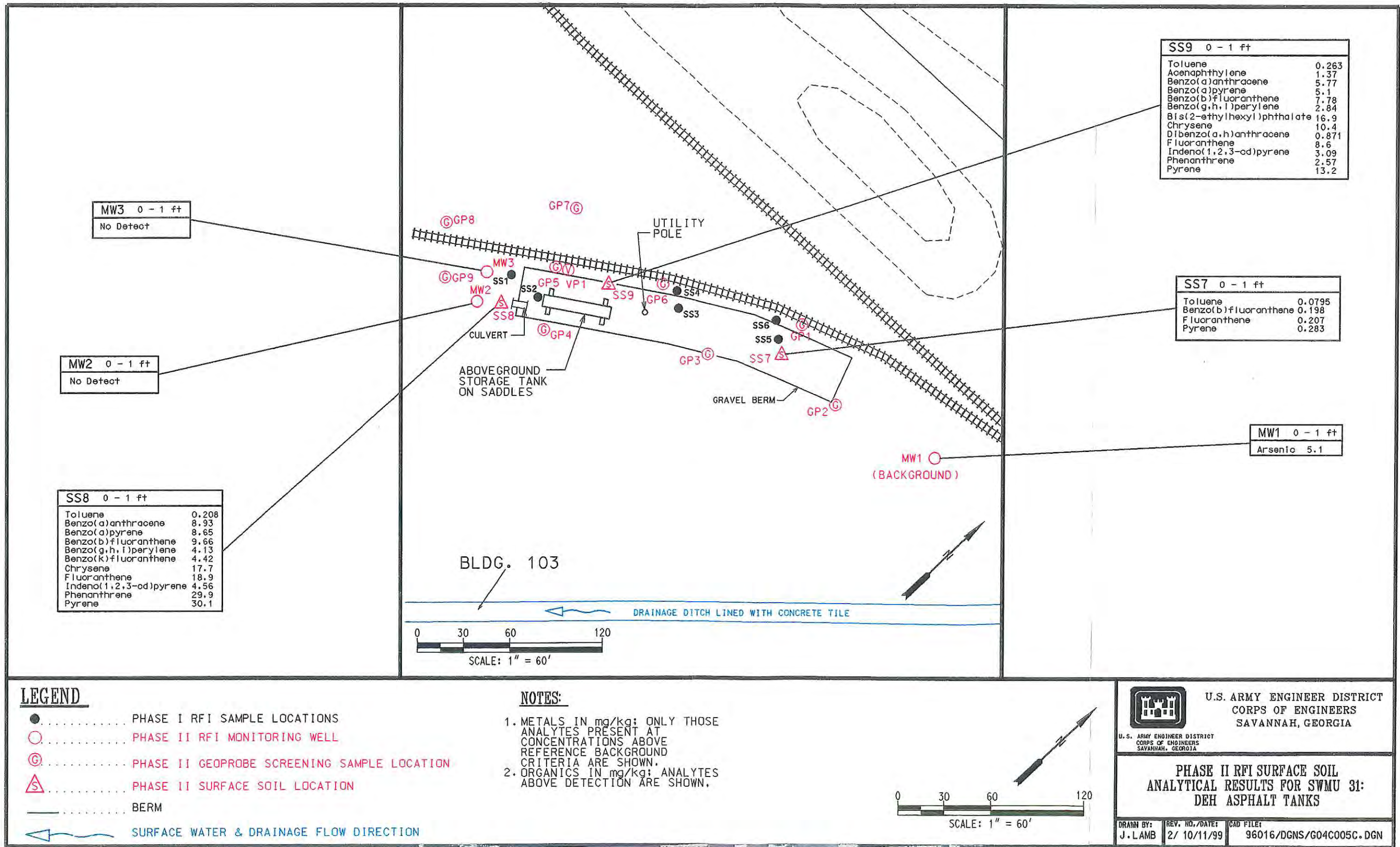


Figure 9.27-5. Summary of Phase II RFI Analytical Results in Surface Soil, SWMU 31

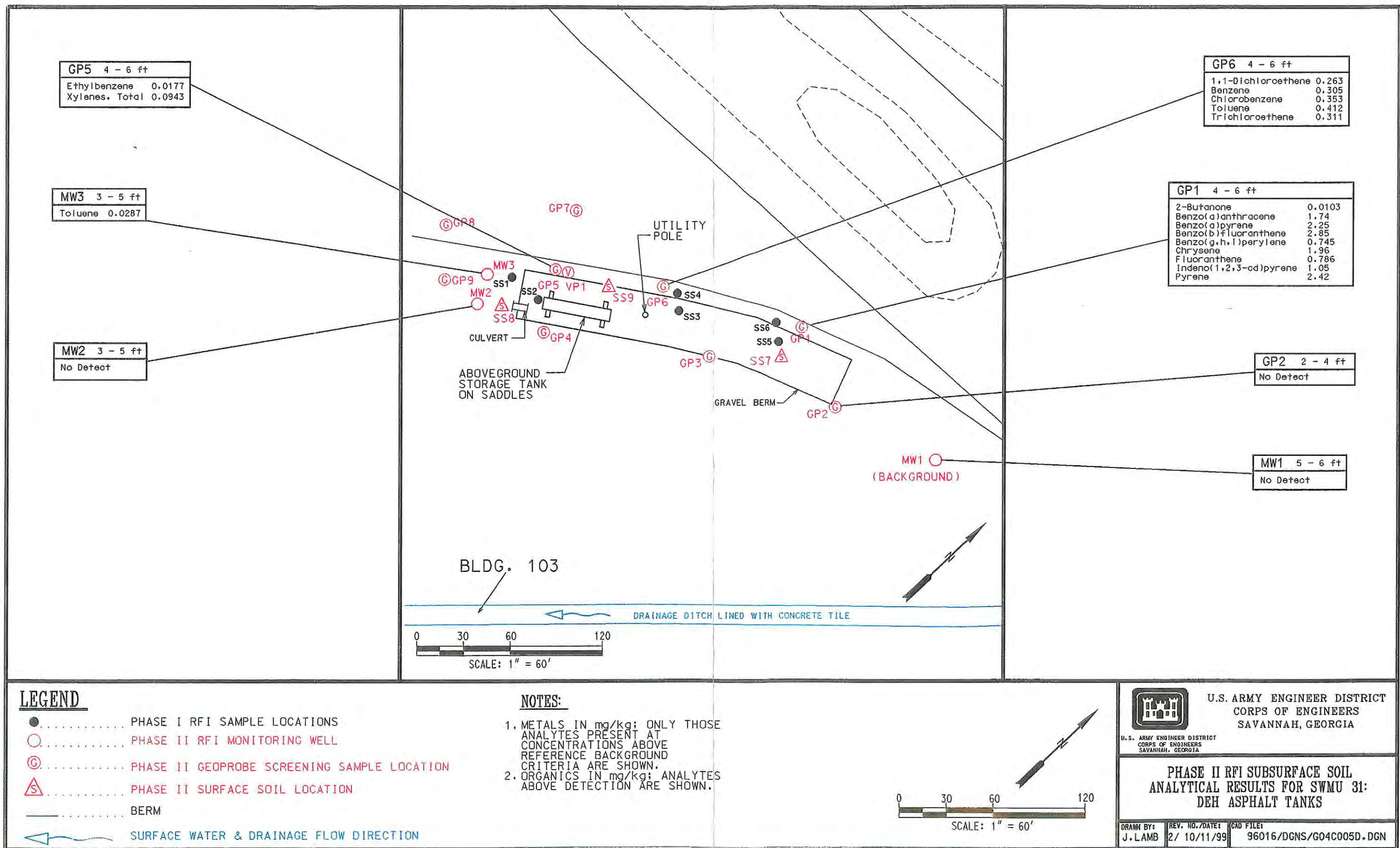


Figure 9.27-6. Summary of Phase II RFI Analytical Results in Subsurface Soil, SWMU 31

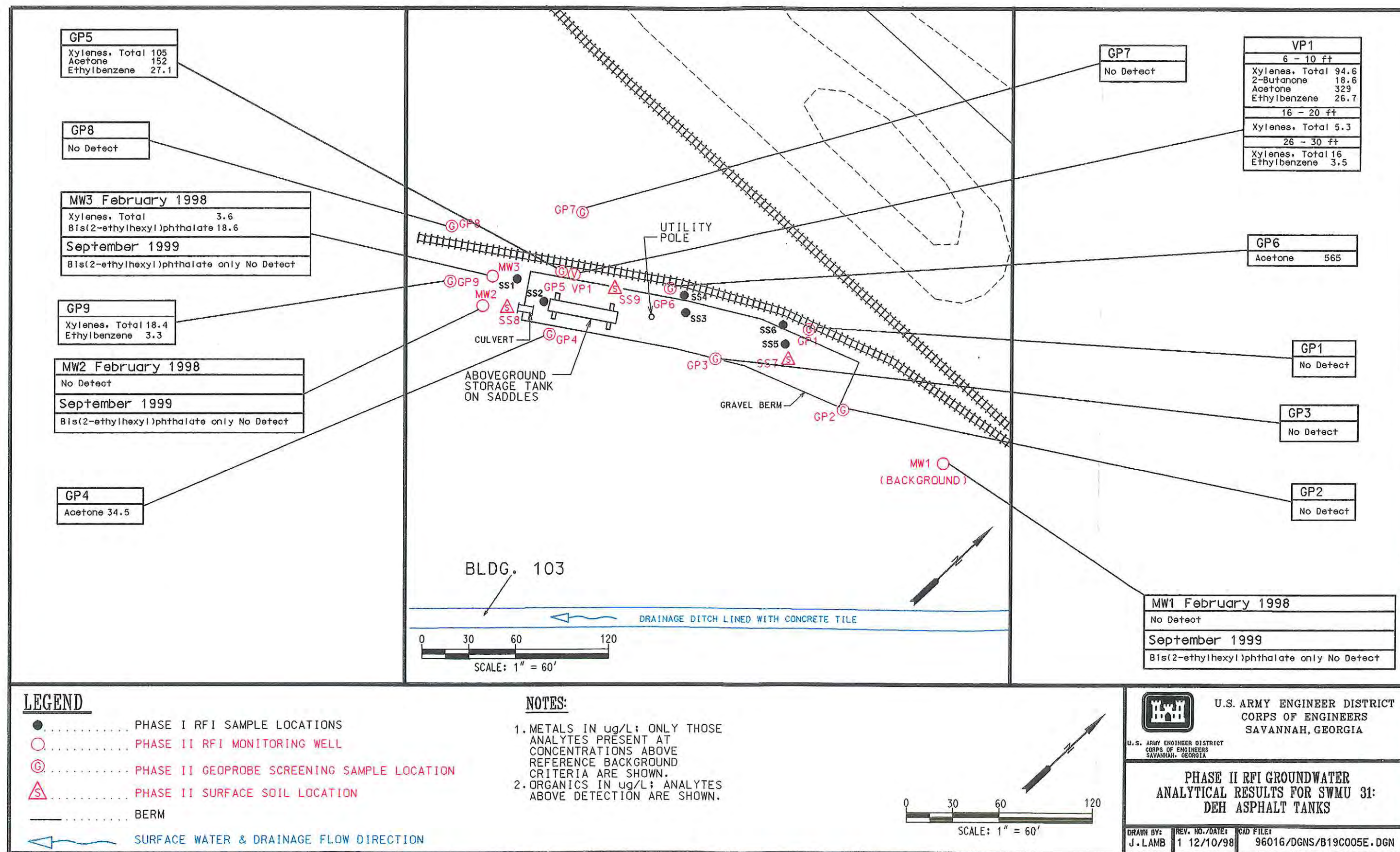


Figure 9.27-7. Summary of Phase II RFI Analytical Results in Groundwater, SWMU 31

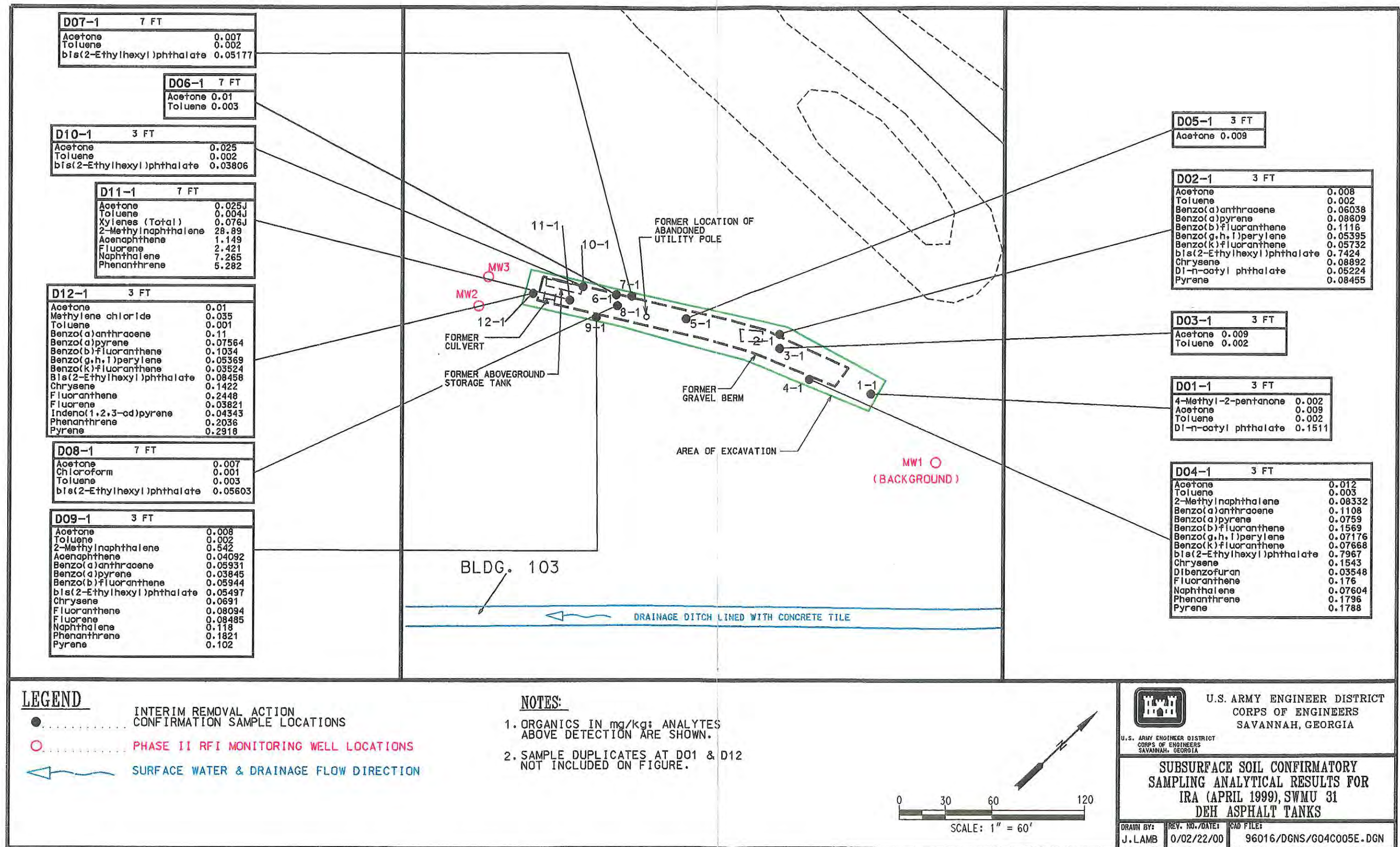
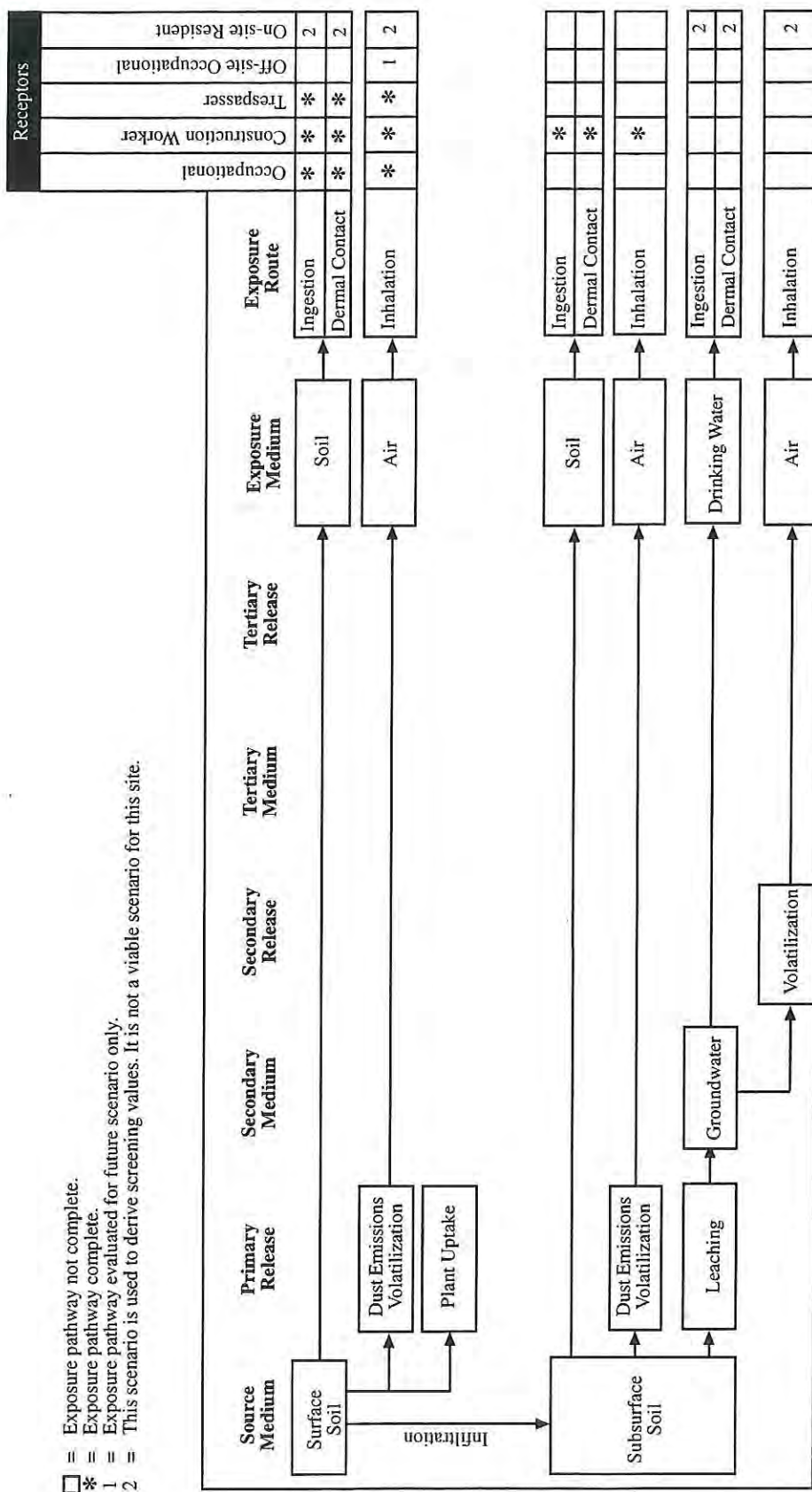


Figure 9.27-8. Subsurface Soil Confirmatory Sampling Analytical Results for IRA (April 1999), SWMU 31



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ATTACHMENT 9.27A
SWMU 31: DEH ASPHALT TANKS
HUMAN HEALTH BASELINE RISK ASSESSMENT

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ATTACHMENT 9.27A

SWMU 31: DEH ASPHALT TANKS

HUMAN HEALTH BASELINE RISK ASSESSMENT

The human health baseline risk assessment consists of five elements: (1) identification of COPCs, (2) exposure assessment, (3) toxicity assessment, (4) risk characterization, and (5) assessment of uncertainty.

9.27A.1 IDENTIFICATION OF COPCS

The CMCOPCs and HHCOPCs have been discussed in the sections on contaminant fate and transport (see Section 9.27.6) and the HHPRE (see Section 9.27.7), respectively. There are no HHCOPCs in soils.

Methylene chloride (VOC) and 2-methylnaphthalene (SVOC) were identified as CMCOPCs based on their leachability to groundwater. 2-Methylnaphthalene was detected at a concentration of 29.89 mg/kg during the confirmatory sampling for the IRA, only slightly above its GSSL of 22.574 mg/kg. The maximum concentration of 2-methylnaphthalene was detected below the water table at a depth of 7 feet bgs. The maximum concentrations of 2-methylnaphthalene in the unsaturated zone (0.8332 mg/kg and 0.542 mg/kg) were much lower than its GSSL screening value (22.574 mg/kg). During the confirmatory sampling for the IRA, methylene chloride was detected (0.035 mg/kg) at only one location (D12-1), only slightly above its GSSL screening value (0.02 mg/kg). Neither methylene chloride nor 2-methylnaphthalene was detected in surface soil, subsurface soil, or groundwater during the Phase I or Phase II RFI sampling. Neither methylene chloride nor 2-methylnaphthalene was detected in groundwater in the excavation pit created during the IRA. Given the conservatism of the GSSL screening values and the apparent absence of methylene chloride and 2-methylnaphthalene in groundwater samples, even those collected from the shallow groundwater (less than 5 feet bgs), methylene chloride and 2-methylnaphthalene are not considered to be CMCOPCs and do not require evaluation as CMCOPCs under the human health baseline risk assessment.

Acetone was identified as an HHCOPC in groundwater and will be assessed in this risk assessment.

9.27A.2 EXPOSURE ASSESSMENT

The exposure assessment quantifies the amount of a COPC an individual may come in contact with at each site. The exposure assessment considers all pathways of potential human exposure, the magnitude of exposure, and the frequency and duration of exposure. The process for estimating exposure consists of the following elements: (1) characterization of the exposure setting in terms of the physical and demographic characteristics of the site, (2) identification of receptor populations, (3) identification of the exposure pathways by which an individual may come in contact with a COPC, (4) estimation of the exposure point concentration, and (5) quantification of the intake or dose to which an individual might be exposed.

9.27A.2.1 Exposure Setting

The exposure setting describes the physical features at the site that are important when identifying the human populations that may be exposed to COPCs, either currently or in the future.

SWMU 31 was formally used for storage of cutback asphalt for the Installation. The site was approximately 210 feet long and 20 feet wide (see Figure 9.27-1). As discussed in Section 9.27.5, the IRA removed one AST and associated concrete supports, one abandoned utility pole, approximately 20 railroad ties, and an estimated 1,730 cubic yards of soil (Earth Tech 1999a). After the tank was removed, an earthen berm surrounding the site was removed, and an excavation area approximately 270 feet long by 30 feet wide was created. The site is currently managed grassland, is not used for any purpose, and is located within an industrialized portion of the garrison area. The site would probably be used for industrial purposes in the future.

9.27A.2.2 Identification of Potential Receptor Populations and Exposure Pathways

A complete exposure pathway consists of four elements: (1) a source of contamination, (2) a transport or retention medium, (3) a point of contact with the chemical, and (4) a route of exposure (ingestion, dermal absorption, or inhalation) at the point of contact through which the chemical may be taken into the body. When all of these elements are present, the pathway is considered to be complete.

The COPCs at this site are limited to groundwater. Given that groundwater is not currently used for any purpose at this site, there are no current on-site or off-site receptor populations.

The potential on-site receptor populations for the future land-use scenario include an Installation worker and a resident. For the purposes of this risk assessment, it was assumed that groundwater drinking wells had been placed at the site. The potential exposure pathway for the on-site Installation worker would be ingestion of drinking water.

The on-site resident is presented for baseline purposes and is not considered to be a viable receptor population. Potential exposure pathways for the on-site resident would include ingestion, dermal contact, and inhalation of volatile organics.

For the purposes of this human health baseline risk assessment, an off-site receptor is defined as a receptor population that is located outside of the boundaries of the SWMU. COPCs in groundwater at this site are not likely to migrate to surface water (see Section 9.27.6.1); therefore, off-site exposure to COPCs in groundwater will be limited to use of groundwater drinking wells, theoretically located adjacent to the SWMU boundary. However, given the limited size of this site, it is unlikely that groundwater concentrations would change significantly between the on-site and off-site locations, a potential distance of less than 30 feet. Therefore, off-site risks associated with the use of groundwater as a drinking water source will not be quantified.

9.27A.2.3 Estimation of Exposure Concentrations

The estimation of exposure concentrations for on-site receptors to HHCOPCs in groundwater is discussed in Appendix I, Section I.2.3. For the purposes of estimating the concentration of acetone in groundwater, the groundwater sampling results were used to estimate exposure concentrations. The exposure point concentration was equal to the 95 percent upper confidence limit of the mean unless this value was greater than the maximum detected groundwater concentration. If that was the case, then the exposure concentration defaulted to the maximum groundwater concentration (0.565 mg/L). The upper confidence limit of 0.25 mg/L was used as the exposure concentration for SWMU 31.

9.27A.2.4 Quantification of Exposure

The equations and exposure factors used to estimate exposures to receptor populations are discussed in Appendix I, Section I.2.4. The exposure parameter values used to estimate potential exposures are given in Table 9.27A-1.

The adult resident is used to evaluate potential carcinogenic risks associated with exposure to COPCs in groundwater. Acetone is not classifiable as a human carcinogen (Class D carcinogen); therefore, the potential carcinogenic risks cannot be quantified (EPA 1999a). In addition, the adult resident is used to evaluate potential noncarcinogenic risks associated with exposure via the inhalation pathway; however, acetone does not have an inhalation reference dose. Therefore, this pathway was not quantified because the potential risk to the adult resident could not be quantified.

The estimated intakes for the Installation worker and the child resident are given in Tables 9.27A-2 and 9.27A-3, respectively.

9.27A.3 TOXICITY ASSESSMENT

The purpose of the toxicity assessment is to determine the increased likelihood and magnitude of adverse human health effects based on the extent of exposure to contamination. The toxicity assessment for SWMU 31 was carried out as described in Appendix I, Section I.3. Acetone has an oral reference dose of 0.1 mg/kg/day and a calculated dermal reference dose of 0.083 mg/kg/day (EPA 1999a). No slope factors have been calculated for acetone (EPA 1999a; EPA 1997c).

9.27A.4 RISK CHARACTERIZATION RESULTS

The risk characterization follows the procedures outlined in Appendix I, Section I.4. Quantitative estimates of noncarcinogenic risks are calculated for acetone for each potentially complete exposure pathway.

9.27A.4.1 Current Land-use Scenario

There is no current use of groundwater at this site; therefore, current land-use receptors are not at risk from exposure to acetone in groundwater.

9.27A.4.2 Future Land-use Scenario

Future potential on-site receptors are an Installation worker and a resident child, both of which may be exposed to acetone as a result of using groundwater as a drinking water source. The potential risk to the on-site resident was evaluated for only a child, given that a child is at greater potential risk than an adult from exposure to noncarcinogenic constituents in groundwater. The potential risks to each of these receptor populations are discussed below.

On-site Installation Worker. The total HI for the Installation worker is 2.45×10^{-2} , which is more than an order of magnitude below the target value of 1.0 (Table 9.27A-4); therefore, adverse systemic health risks are not expected for this receptor population.

On-site Resident Child. The total HI for the resident child is 1.60×10^{-1} , which is below the target value of 1.0 (Table 9.27A-5); therefore, adverse systemic health risks are not expected for this receptor population.

Off-site Receptors. The potential off-site receptors would include an off-site Installation worker and an off-site resident. The HIs for these receptors would not be greater than those for the on-site receptors. Therefore, the HIs for these receptors would be less than one, and adverse systemic health risks would not be expected for these receptor populations.

9.27A.5 UNCERTAINTY ASSESSMENT

A discussion of the general uncertainties associated with the analysis of risks at sites within the 16 SWMUs is given in Appendix I, Section I.5.

It was conservatively assumed that the surficial aquifer that was sampled would be used as a source of drinking water. However, the surficial aquifer is not considered to be a source of potable water, and drinking water wells at the FSMR are likely to use the deeper Floridan aquifer.

An inhalation reference dose was not available for acetone; therefore, the potential risks associated with exposure via the inhalation pathway could not be quantified.

9.27A.6 RISK SUMMARY

The HIs for the potential exposure of the Installation worker and the resident child to acetone in groundwater are $2.45\text{E-}02$ and $1.60\text{E-}01$, respectively. Both of these risk values are below the target value of 1.0; therefore, acetone in groundwater is not likely to present a significant risk to potential receptors at this site.

**Table 9.27A-1. Exposure Parameters for Potential
Receptor Populations, SWMU 31**

Parameter	Units	Installation Worker	Resident Child
GROUNDWATER			
Drinking Water Ingestion			
Drinking water ingestion	L/day	1	1
Fraction ingested from area	unitless	1	1
Exposure frequency	days/year	250	350
Exposure duration	years	25	6
Body weight	kg	70	15
Carcinogen averaging time	days	NA ^a	NA ^a
Noncarcinogen averaging time	days	9,125	2,190
Dermal Contact while Bathing			
Skin area	m ²	NA ^b	0.170
Exposure time	hours/day	NA ^b	0.33
Exposure frequency	days/year	NA ^b	350
Exposure duration	years	NA ^b	6
Body weight	kg	NA ^b	15
Carcinogen averaging time	days	NA ^b	NA ^b
Noncarcinogen averaging time	days	NA ^b	2,190

^aThe HHCOPC of concern, acetone, is not classified as a human carcinogen (Class D carcinogen).

^bNA = Not applicable.

Table 9.27A-2. Estimated Intakes for Future On-site Installation Worker, SWMU 31

Environmental Medium	Chemical	Exposure Concentration	Units	Oral Exposure ^a
				Average Daily Dose for Noncarcinogens (mg/kg/d)
Groundwater	Acetone	0.25 ^b	mg/L	2.45E-03

^aThe equation used to calculate oral exposure in groundwater is presented in Appendix I, Section I.2.4.3.

^bThe exposure point concentration is equal to 95 percent upper confidence limit of the mean (see Section 9.27A.2.3).

Table 9.27A-3. Estimated Intakes for Future On-site Resident Child, SWMU 31

Environmental Medium	Chemical	Exposure Concentration	Units	Oral Exposure ^a	Dermal Exposure ^a
				Average Daily Dose for Noncarcinogens (mg/kg/d)	Average Daily Dose for Noncarcinogens (mg/kg/d)
Groundwater	Acetone	0.25 ^b	mg/L	1.60E-02	5.11E-06

^aThe equations used to calculate oral and dermal exposures in groundwater are presented in Appendix I, Section I.2.4.3.

^bThe exposure point concentration is equal to 95 percent upper confidence limit of the mean (see Section 9.27A.2.3).

Table 9.27A-4. Hazard Indices for Future On-site Installation Worker, SWMU 31

Chemical	Groundwater ^a	
	Oral HQ	Total Hazard Index
Acetone	2.45E-02	2.45E-02

^aThe equations used to calculate noncarcinogenic risk are presented in Appendix I, Section I.4.2.

Table 9.27A-5. Hazard Indices for Future On-site Resident Child, SWMU 31

Chemical	Groundwater ^a		
	Oral HQ	Dermal HQ	Total Hazard Index
Acetone	1.60E-01	6.16E-05	1.60E-01

^aThe equations used to calculate noncarcinogenic risk are presented in Appendix I, Section I.4.2.

REVISED FINAL



FORSUM

PHASE II RCRA FACILITY INVESTIGATION REPORT



3d Inf Div (Mech)

FOR

16 SOLID WASTE MANAGEMENT UNITS AT FORT STEWART, GEORGIA

VOLUME II OF III: APPENDICES A-G

Prepared for



**U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT**

Contract No. DACA21-95-D-0022
Delivery Order 0009

April 2000

99-183P(PPT)/021600



SWMU 31
DEH ASPHALT TANKS

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HTRW DRILLING LOG		DISTRICT <i>Savannah COE</i>		PROJECT NUMBER <i>31-GP-01</i>	
1. COMPANY NAME <i>SAIC</i>		2. DRILL SUBCONTRACTOR <i>Miller Drilling</i>		SHEET <i>1</i> OF <i>2</i>	
3. PROJECT <i>Ft. Stewart 16 SWMU's</i>		4. LOCATION <i>Hinesville, GA SWMU-31</i>			
5. NAME OF DRILLER <i>NAZ</i>		6. MANUFACTURER'S DESIGNATION OF DRILL <i>Mobile R-47</i>			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>4' x 2" sampler</i> <i>4' x 1" ss rods</i> <i>Acetate Slides</i> <i>PVC Risert Screen</i>		8. HOLE LOCATION <i>SWMU-31</i>			
9. SURFACE ELEVATION <i>87.90' NAD-88</i> <i>E-827626.39</i> <i>N-676606.30</i> <i>NAD-83</i>		10. DATE STARTED <i>11/14/98</i>			
11. DATE COMPLETED <i>1/14/98</i>		12. OVERBURDEN THICKNESS <i>10'</i>			
13. DEPTH (DRILLED) INTO ROCK <i>0'</i>		15. DEPTH GROUNDWATER ENCOUNTERED <i>~6' bgs</i>			
14. TOTAL DEPTH OF HOLE <i>10'</i>		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED			
18. GEOTECHNICAL SAMPLES <i>NA</i>		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES <i>NA</i>		20. SAMPLES FOR CHEMICAL ANALYSIS VOC ☒ METALS ☐ OTHER (SPECIFY) <i>SVOC</i>			
21. DISPOSITION OF HOLE BACKFILLED ☐ MONITORING WELL ☐ OTHER (SPECIFY) <i>Piezometer</i>		OTHER (SPECIFY) <i>TRPX</i>		OTHER (SPECIFY)	
22. TOTAL CORE RECOVERY <i>NA %</i>		23. SIGNATURE OF INSPECTOR <i>[Signature]</i>			

LOCATION SKETCH/COMMENTS

SCALE:

See location map

PROJECT <i>Ft. Stewart 16 SWMU's</i>	HOLE NO. <i>31-GP-01</i>
---	-----------------------------

well, drilling, etc.)

(Signature and Date)

QA CHECK BY:

HTRW DRILLING LOG

HOLE NUMBER 31-GP-01

PROJECT

Ft. Stewart

INSPECTOR

Chel J. C.

SHEET

2 of 2

5-2

DEPTH (ft)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS (D)	GEOTECH SAMPLE OR CORE BOX NO (E)	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
1	SP) fill, poorly graded fine to very coarse sands, gravels, mixture of brown + black colors	C.O.			
2					
3	(CL) fine to med. grain sandy clay, lt. olive brown	φ. φ			
4	2.5YR 5/3 matrix with 10YR 5/6				
5	yellowish brown mottles	φ. φ			
6					
7	SW-SM fine grain sand with silt organic 2.5YR 2/1 black color				
8	Saturated				
9					
10					

PROJECT

Ft. Stewart

16 SWML's

HOLE NO

31-GP-01

well atmosphere, soil core, breathing zone, venting system
etc.)

QA CHE
Y: (Signature and Date)

HTRW DRILLING LOG			DISTRICT			HOLE NUMBER		
1. COMPANY NAME SAIC			2. DRILL SUBCONTRACTOR Savannah COE Miller Drilling			31-GA-92		
3. PROJECT Ft. Stewart 16 SWMU's			4. LOCATION Hinesville, GA SWMU-31			SHEET 1 OF 3		
5. NAME OF DRILLER			6. MANUFACTURER'S DESIGNATION OF DRILL Mobile B-47					
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 4' x 2" Sampler 4' x 1" SS Rods PVC Pipe + Screen Acrylic Sleeve			8. HOLE LOCATION SWMU-31			9. SURFACE ELEVATION 87.04' NAVD-83 E-827677.75 N-676583.94 VAD-83		
10. OVERBURDEN THICKNESS 8'			11. DATE STARTED 1/14/98			12. DATE COMPLETED 1/14/98		
13. DEPTH DRILLED INTO ROCK 0'			14. DEPTH GROUNDWATER ENCOUNTERED ~4'			15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED		
16. TOTAL DEPTH OF HOLE 8'			17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)					
18. GEOTECHNICAL SAMPLES NA			DISTURBED			UNDISTURBED		
19. TOTAL NUMBER OF CORE BOXES NA			20. SAMPLES FOR CHEMICAL ANALYSIS VOC METALS OTHER (SPECIFY) SVOC OTHER (SPECIFY) TRPN OTHER (SPECIFY) Benzene/ter			21. TOTAL CORE RECOVERY NA		
22. DISPOSITION OF HOLE BACKFILLED MONITORING WELL			23. SIGNATURE OF INSPECTOR [Signature]					
LOCATION SKETCH/COMMENTS See Location map								
SCALE:								
PROJECT Ft Stewart 16 SWMU's			HOLE NO. 31-GA-02					

39

HTRW DRILLING LOG

PROJECT 16 SWMU's				INSPECTOR		HOLE NUMBER 31-GP-02	
DEPTH (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS (D)	GEOTECH SAMPLE OR CORE BOX NO. (E)	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)	
1		SW-sm + sand w/ silt fine grain, it's olive brown 2.5% silt	0.0				
2		sn - fine to med. grain sand, 10% R 5/16 yellowish brown moist,	0.0				
3							
4		Saturate 2 at bottom 2 feet					
5							
6		SW-sc) - organic black color, sand w/ clay, fine grain saturated					
7							Set piezometer
8							
9							
10							
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40

PROJECT

16 SWMU's
A.40-6

HOLE NO

31-GP-02

HTRW DRILLING LOG

1. COMPANY NAME SAIL		DISTRICT Savannah CCE		HOLE NUMBER 31-GP-03	
2. PROJECT St. Stewart 16 SWMU's		3. DRILL SUBCONTRACTOR Miller Drilling		SHEET 1 of 2	
4. NAME OF DRILLER HAZ		5. LOCATION SWMU-31			
6. SIZE AND TYPE OF DRILLING AND SAMPLING EQUIPMENT 4" x 2" Sampler 4" x 1" Steel rods 3/4" PVC RISERS 3/4" x 5' x 1210 slot PVC Screen		7. MANUFACTURER'S DESIGNATION OF DRILL Mobile B-47			
		8. HOLE LOCATION E-827595.51', N-676551.08' NAD-83			
		9. SURFACE ELEVATION 86.93' NAD-83			
10. OVERBURDEN THICKNESS 8'		11. DATE STARTED 1/14/97		12. DATE COMPLETED 1/14/97	
13. DEPTH (DRILLED) INTO ROCK 0'		14. DEPTH GROUNDWATER ENCOUNTERED ~4' bgs			
14. TOTAL DEPTH OF HOLE 8'		15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED			
16. GEOTECHNICAL SAMPLES NA		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)			
18. DISTURBED		19. UNDISTURBED		20. TOTAL NUMBER OF CORE BOXES NA	
21. SAMPLES FOR CHEMICAL ANALYSIS VOC		22. METALS		23. OTHER (SPECIFY) SVOL	
24. DISPOSITION OF HOLE BACKFILLED		25. MONITORING WELL		26. OTHER (SPECIFY) TRPH	
27. SIGNATURE OF INSPECTOR <i>[Signature]</i>		28. TOTAL CORE RECOVERY NA			

LOCATION SKETCH/COMMENTS

SCALE:

See location map

PROJECT

St. Stewart 16 SWMU's

HOLE NO.

31-GP-03

PN: FORM 5056-R, AUG 94

(Proponent CECW-EC)

HTRW DRILLING LOG						HOLE NUMBER
PROJECT		INSPECTOR	SHEET			
DEPTH (ft)	DESCRIPTION OF MATERIALS (A)	FIELD SCREENING RESULTS (D)	GEOTECH SAMPLE OR CORE BOX NO (E)	ANALYTICAL SAMPLE NO (F)	REMARKS (G)	
1	SW-SM - well graded sand w/ silt, 1% white brown 2.5% s/s	C, C'				
2	Same as above slip black + organic					
3	SW-SC, well graded sand w/ clay 2.5%					
4		C, C'				WT
5						
6	CL - sandy clay, fine to med. grain sand 1% white brown, 2.5% s/s					
7	SW-SC sand w/ clay organic black color fine grain, saturated					
8						

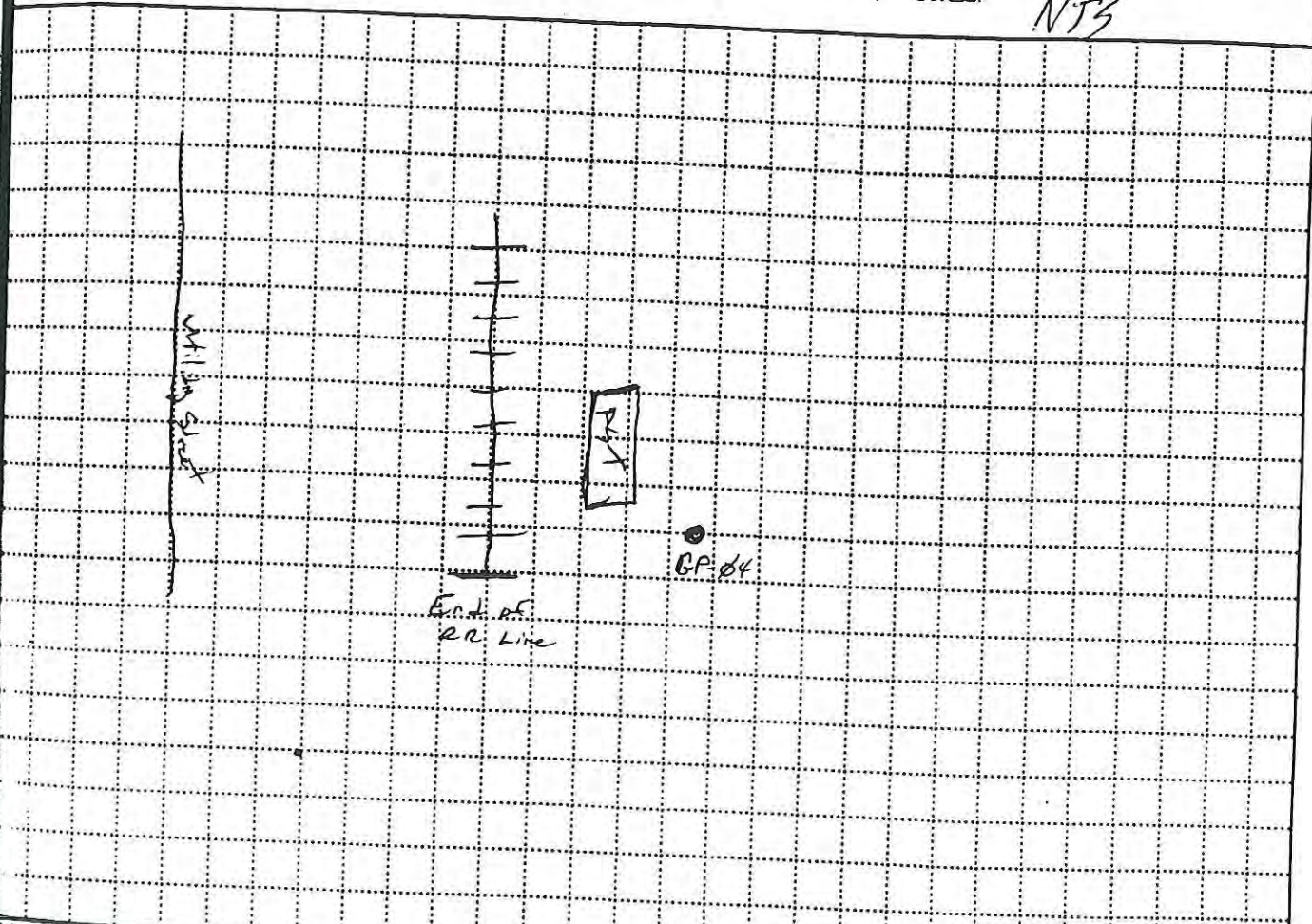
56. Stewart 16 SHMU's

31GP-03

* NOTE TYPE OF MONITORING (i.e., borehole cuttings, n well atmosphere, soil core, breathing zone, venting compressed air, etc.)

HTRW DRILLING LOG		DISTRICT <i>Savannah COE</i>		HOLE NUMBER <i>31-GP-d4</i>	
1. COMPANY NAME <i>SNIC</i>		2. DRILL SUBCONTRACTOR <i>Miller Drilling Co</i>		SHEET <i>1 of 2</i>	
3. PROJECT <i>Fl. Stewart 16 SHMU's</i>		4. LOCATION <i>Winesville, Georgia</i>			
5. NAME OF DRILLER <i>Haz</i>		6. MANUFACTURER'S DESIGNATION OF DRILL <i>Mobile B-47</i>			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>2" x 4" Samplers 4" x 1" Steel rods Acetate liners 3/4" PVC RISERS PVC 3/4" x 5' x 0.010 slot screen</i>		8. HOLE LOCATION <i>E-927507.10', N-676438.92' NAD-83</i>			
9. SURFACE ELEVATION <i>85.94' NAVD-88</i>		10. DATE STARTED <i>4/14/98</i>			
11. DATE COMPLETED <i>1/14/98</i>		12. OVERBURDEN THICKNESS <i>8'</i>			
13. DEPTH (DRILLED) INTO ROCK <i>0'</i>		15. DEPTH GROUNDWATER ENCOUNTERED <i>3.4'</i>			
14. TOTAL DEPTH OF HOLE <i>8'</i>		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED			
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)		18. GEOTECHNICAL SAMPLES <i>NA</i>			
19. TOTAL NUMBER OF CORE BOXES <i>NA</i>		20. SAMPLES FOR CHEMICAL ANALYSIS			
21. TOTAL CORE RECOVERY <i>NA</i>		22. DISPOSITION OF HOLE			
23. SIGNATURE OF INSPECTOR <i>Chad [Signature]</i>		24. LOCATION SKETCH/COMMENTS			

SCALE: *NTS*



(Signature and Date)

QA CHF BY:

PROJECT <i>Fl. Stewart 16 SHMU's</i>		HOLE NO. <i>31-GP-d4</i>	
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HTRW DRILLING LOG										HOLE NUMBER	
PROJECT <u>Fr. Stewart</u>										16 SAMS	
INSPECTOR <u>Chc Lee</u>										31-6P-07	
										SHEET	
										2 of 2	
DATE	DEPTH	DESCRIPTION OF MATERIALS			FIELD SURVEYING		LABORATORY				

Chel Sea

ROLL NUMBER	31-GP-04
SHEET	2 of 2

16

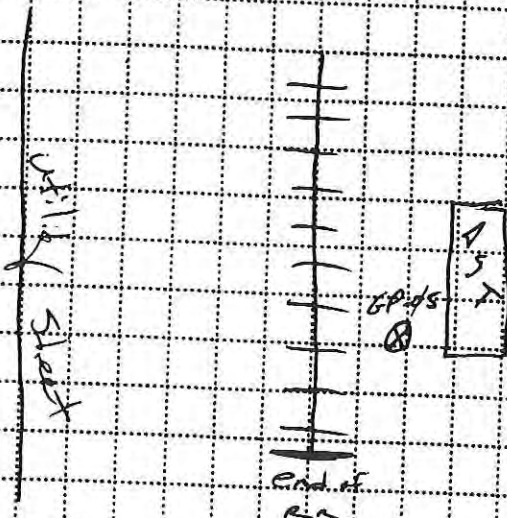
DATE (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS (D)	GEOTECH SAMPLE OR CORE BOX NO. (E)	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	1	SW-SM, Sand well graded fine grain, lt olive brown 2.5% S/S, little silt				
	2	SW-SM, fine grain sand w/ silt, black organic color 2.5% 2.5/1				
	3	SW-SC, well graded fine sand w/ little clay 2.5%, lt. brownish grey saturated at base				WT
	4	Saturated Same as above				
	5	SW-SC - sand w/ clay organic, black color - Saturated				
	6					
	7					
	8					Set piezometer
	9					
	10					
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31-GP-Ø4

* NOTE TYPE OF MONITORING (i.e., borehole cuttings, monitoring well atmosphere, soil core, breaching zone, venting compressed air,

HTRW DRILLING LOG		DISTRICT <i>Savannah COE</i>		HOLE NUMBER <i>31-GP-05</i>	
COMPANY NAME <i>SAIC</i>		DRILL SUBCONTRACTOR <i>Miller Drilling</i>		SHEET <i>1</i> OF <i>2</i>	
PROJECT <i>Fl. Stewart + 16 SWMU's</i>		LOCATION <i>Winesville, Georgia</i>			
NAME OF DRILLER <i>Haz</i>		MANUFACTURERS DESIGNATION OF DRILL <i>Mobile B-47</i>			
SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>4" x 2" sampler 4" x 1" rods Acetone Soil sample sleeves 3/4" PVC riser + screen 5" x 3/4" .010 slot screen</i>		HOLE LOCATION <i>SWMU-31</i>			
OVERBURDEN THICKNESS <i>8'</i>		9. SURFACE ELEVATION <i>87.59' NAVD-83 E-827485.09 N-676523.30 NAD-83</i>			
DEPTH (DRILLED) INTO ROCK <i>0'</i>		10. DATE STARTED <i>1/14/97</i>			
TOTAL DEPTH OF HOLE <i>8'</i>		11. DATE COMPLETED <i>1/14/97</i>			
13. GEOTECHNICAL SAMPLES <i>NA</i>		15. DEPTH GROUNDWATER ENCOUNTERED <i>26' bgs</i>			
14. SAMPLES FOR CHEMICAL ANALYSIS		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED			
DISTURBED		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)			
UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES <i>NA</i>			
VOC		METALS		OTHER (SPECIFY)	
✓				OTHER (SPECIFY)	
BACKFILLED		MONITORING WELL		OTHER (SPECIFY)	
				OTHER (SPECIFY)	
DESCRIPTION OF HOLE		piczometer		21. TOTAL CORE RECOVERY <i>NA</i>	
LOCATION SKETCH/COMMENTS		23. SIGNATURE OF INSPECTOR <i>Carl Hill</i> <i>Majorist</i>			
		SCALE: <i>NTS</i>			

See location map



QA CHECK BY:

PROJECT <i>Fl. Stewart 16 SWMU's</i>		HOLE NO. <i>31-GP-05</i>
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FORM 5056-R, AUG 94

(Proponent CECW-EG)

PROJECT		HTRW DRILLING LOG				HOLE NUMBER
SUBJECT		DISPECTOR				SHEET
FEET (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS (D)	GEOTECH SAMPLE OR CORE BOX NO. (E)	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
1		SP) fill, gravel, sand fine to med grain black color, coal, organic	0.0			
2		(CL) fine to med. grain sandy clay, mix of colors, fill material, has 11, olive brown 2.5% s/s + yellowish brown 10% s/c + reds, browns & white sands	1.0			
3						
4						
5						
6						WT
7		(sw-sil) fine grain, silty sand black 2.5% s/s color, organic				* Strong petroleum odor - seen on H ₂ O Installed piezometer
8						
9						
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РКОУЛЕТ

ft Stewart 16 SWMU's

HOLE NO.

31-GP-05

HTRW DRILLING LOG		DISTRICT <i>Savannah COE</i>		HOLE NUMBER <i>31-GP-66</i>	
1. COMPANY NAME <i>SAIC</i>		2. DRILL SUBCONTRACTOR <i>M. W. Drill</i>		SHEET <i>1</i> OF <i>2</i>	
3. PROJECT <i>St. Stewart 16 SWMU's</i>		4. LOCATION <i>Hinesville GA</i>			
5. NAME OF DRILLER <i>H-Z</i>		6. MANUFACTURER'S DESIGNATION OF DRILL <i>Mobik B-47</i>			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <i>4" x 2" sampler 4" x 1" SS Rods Acetate sleeves PVC 3/4" piezometer</i>		8. HOLE LOCATION <i>SWMU - 31 E-887543, 35' N-676563, 72' NAVD-83</i>			
		9. SURFACE ELEVATION <i>87.49' NAVD-83</i>			
12. OVERBURDEN THICKNESS <i>10'</i>		10. DATE STARTED <i>1/14/98</i>		11. DATE COMPLETED <i>1/14/98</i>	
13. DEPTH DRILLED INTO ROCK <i>0'</i>		15. DEPTH GROUNDWATER ENCOUNTERED <i>~6' bss</i>			
14. TOTAL DEPTH OF HOLE <i>10'</i>		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED			
18. GEOTECHNICAL SAMPLES <i>NA</i>		DISTURBED		UNDISTURBED	
19. TOTAL NUMBER OF CORE BOXES <i>NA</i>		20. SAMPLES FOR CHEMICAL ANALYSIS VOC: ☒ METALS: ☐ OTHER (SPECIFY): <i>SVOC</i>			
21. DISPOSITION OF HOLE <i>BACKFILLED</i>		MONITORING WELL: ☐		OTHER (SPECIFY): <i>Piezometer</i>	
22. SIGNATURE OF INSPECTOR <i>[Signature]</i>		23. TOTAL CORE RECOVERY <i>NA%</i>			

LOCATION SKETCH/COMMENTS

SCALE:

See location map

PROJECT <i>St. Stewart 16 SWMU's</i>		HOLE NO. <i>31-GP-66</i>
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* NOTE TYPE OF MONITORING (i.e., borehole cuttings, monitoring well atmosphere, soil core, breathing zone, venting compres air, etc.)

(Signature and Date)

QA CHECK BY:

HTRW DRILLING LOG

PROJECT		INSPECTOR		HOLE NUMBER		SHEET	
Ft. Stewart		C. D. [Signature]		31-GP-66		2 of 2	
DEPTH (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS (D)	GEOTECH SAMPLE OR CORE BOX NO (E)	ANALYTICAL SAMPLE NO (F)	REMARKS (G)	
		(SP) Silt, poorly sorted fine to coarse w/ sand					
1		CL Fine to med. grain sandy clay, lt. olive brown	0.0				
2		2.5 YR 5/3 matrix w/ 10 YR 5/6 yellowish brown mottles	0.0				
3							
4							
5							
6			0.0			▽ WT	
7		(SW-SM) Fine to med. sandy w/ silt organic					
8		2.5 YR 2/1 black color, saturated & sample at base					
9							
10							

PROJECT

Ft. Stewart 16 SWMU's

HOLE NO

31-GP-66

HTRW DRILLING LOG

1. COMPANY NAME

SAC

DISTRICT

Savannah COE

HOLE NUMBER

31-MW1

2. DRILL SUBCONTRACTOR

Muler Drilling

SHEET

3 OF 7

3. PROJECT

Ft. Stewart SWMU's

4. NAME OF DRILLER

Darren & George & Derrick

5. LOCATION

E-827748.40', N-676603.47' NAD-83

6. MANUFACTURERS DESIGNATION OF DRILL

Ingersoll 8360

7. HOLE LOCATION

SWMU31-MW1

8. SURFACE ELEVATION

NAVD-83 TOC-90.61' GND-87.86'

9. DATE STARTED

01/28/98

10. DATE COMPLETED

01/28/98

11. DEPTH GROUNDWATER ENCOUNTERED

6.25'

12. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED

13. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

14. OVERBURDEN THICKNESS

NA

15. DEPTH DRILLED INTO ROCK

NA

16. TOTAL DEPTH OF HOLE

15'

17. GEOTECHNICAL SAMPLES

DISTURBED

UNDISTURBED

18. TOTAL NUMBER OF CORE BOXES

NA

19. SAMPLES FOR CHEMICAL ANALYSIS

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

20. TOTAL CORE RECOVERY %

NA

21. DISPOSITION OF HOLE

BACKFILLED

BCRA MONITORING WELL

SVOC

OTHER (SPECIFY)

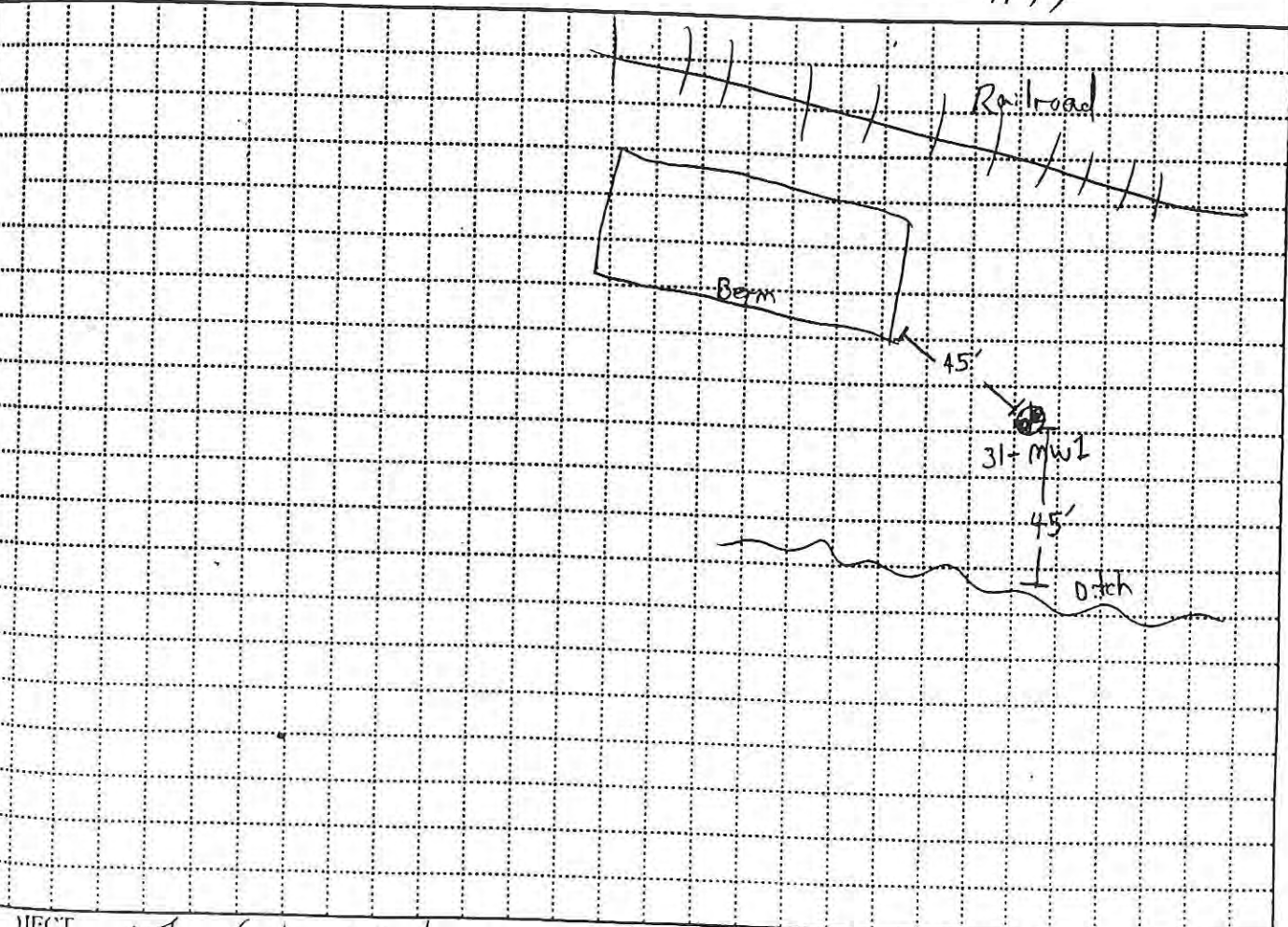
22. SIGNATURE OF INSPECTOR

Dana Long

LOCATION SKETCH/COMMENTS

SCALE:

NTS



JECT

Ft. Stewart SWMU's

HOLE NO

31-MW1

ENG FORM 5056-R, AUG 94

(Proponent CECW-EG)

DEPTH (ft)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS (D)	GEO TECH SAMPLE OR CORE BOX NO (E)	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
1	First few inches - coal debris Strong Brown med to fine Sand	Ø ppm		Field Dup + Grab Analytical Sample #1	
	Olive yellow med to fine Sand			(31111)	
2	insufficient recovery				
3		insuff recovery			
4					
5					
6	Reddish gray med to fine Sand	Ø ppm		QA split and Grab Analytical Sample #2	
				(31121)	
7	Dark red med to fine Sand with silt				▼ 6.25'
8					
9	Black Sandy silt				
10					

PROJECT		INSPECTOR			SHEET	
Ft. Stewart SWMU's					31-MW1	
DATE	DEPTH (ft)	DESCRIPTION OF MATERIALS (D)	FIELD SCREENING RESULTS (B)	GEOTECH SAMPLE OR CORE BOX NO (E)	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	11	Black Sandy Silt				
	12					
	13					
	14	Dark Brown Sandy Silt				
	15	Boring termination Depth		Shelby Tube 15'-17' (31113)		
	16					
	17					

PROJECT

Ft. Stewart SWMU's

A.40-17

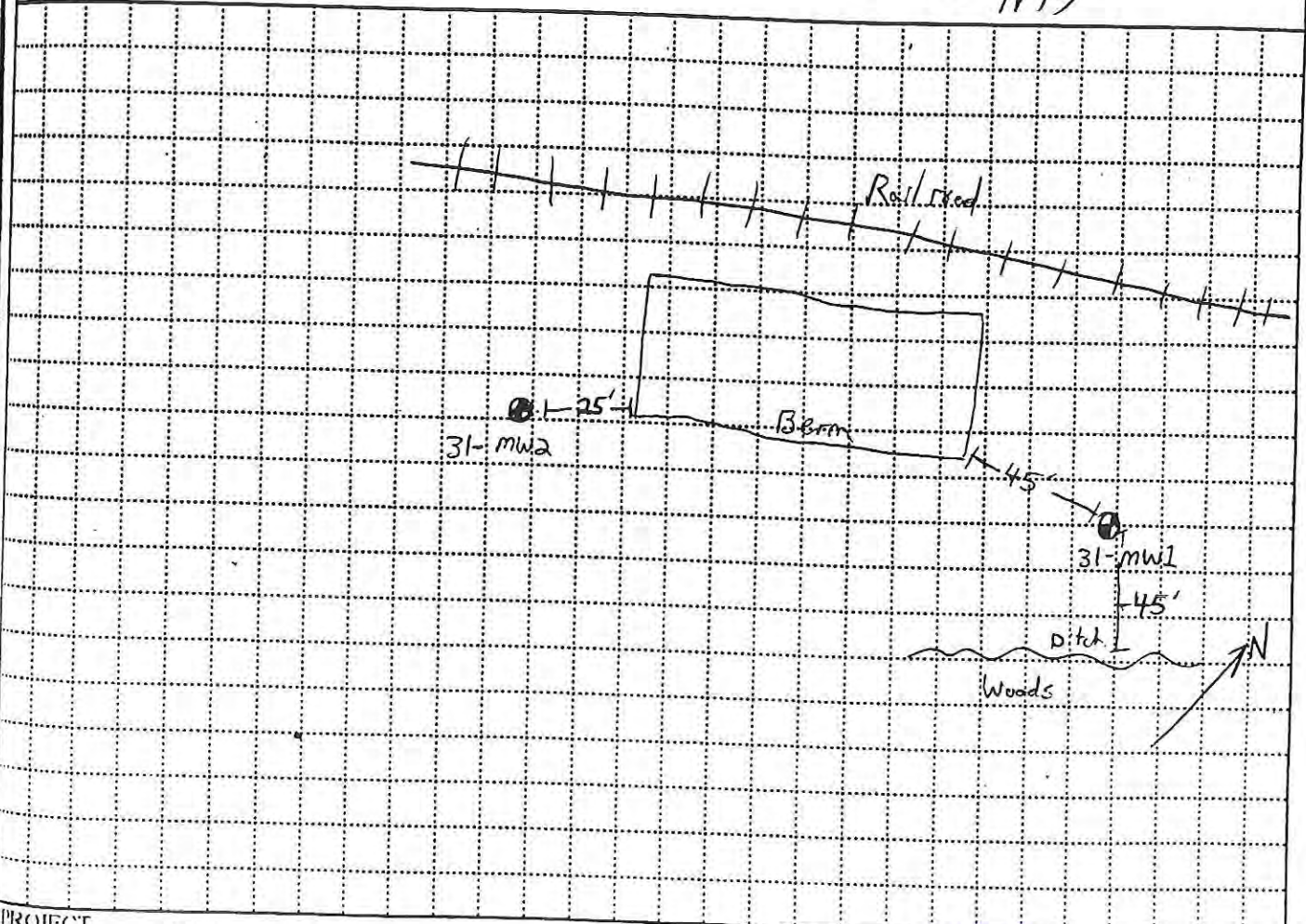
HOLE NO

31-MW1

HTRW DRILLING LOG		DISTRICT	Savannah COE	HOLE NUMBER	31-MW2
1. COMPANY NAME SAIC		2. DRILL SUBCONTRACTOR Miller Drilling		SHEET	3 of 7
3. PROJECT Ft. Stewart Sumu's		4. LOCATION E-827463.43, N-676478.63' NAD-83			
5. NAME OF DRILLER Daren & Derrick & George		6. MANUFACTURERS DESIGNATION OF DRILL Ingersoll 3800			
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 4 1/4" Auger 5' long 3" diameter split spoon		8. HOLE LOCATION SWMU 31-MW2			
9. SURFACE ELEVATION NAVD-88 TOC-88.71', GND-85.80'		10. DATE STARTED 01/28/98			
11. DATE COMPLETED 01/28/98		12. OVERBURDEN THICKNESS NA			
13. DEPTH (DRILLED) INTO ROCK NA		14. DEPTH GROUNDWATER ENCOUNTERED 5.5'			
15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED		16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)			
17. TOTAL NUMBER OF CORE BOXES NA		18. SAMPLES FOR CHEMICAL ANALYSIS			
DISTURBED ziplock bag		UNDISTURBED			
VOC		METALS			
OTHER (SPECIFY) RCRA		OTHER (SPECIFY) SVOC			
BACKFILLED		MONITORING WELL			
21. TOTAL CORE RECOVERY NA		22. SIGNATURE OF INSPECTOR Gina Long			

LOCATION SKETCH/COMMENTS

SCALE: NTS



PROJECT	Ft. Stewart Sumu's	HOLE NO.	31-MW2
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Hole No. 31-mw2						
Project: Ft. Stewart SWMU3			Inspector:		Sheet: 4	
Depth (ft)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Remarks (G)	
1	Organic 1" or so Olive yellow med. to fine sand	Oppm	311211	(Sample 1) 311211		
2						
3	White med. to fine sand to fine sand	Oppm		311212 (Sample 2)		
4						
5	Dark Brown sandy silty					
6	Saturated				▼ 5.5'	
7						
8	Black sandy silt less saturated				GL 01/20/98	
9			Geotechnical disturbed (zip lock bag) 8-10" (311213)			
10						

Project

Ft. Stewart SWMU's

Hole No.

31-mw2

PROJECT		HOLE NUMBER			SHEET	
Ft. Stewart Summu's		31-MW2			5	
DATE	DEPTH (ft)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS (D)	GEOTECH SAMPLE OR CORE BOX NO (E)	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	11					
	12					
	13					
	14					
	15					
		Boring Termination Depth				

HTRW DRILLING LOG

COMPANY NAME

SAIC

DISTRICT

Savannah COE

DRILL SUBCONTRACTOR

Miller Drilling

HOLE NUMBER

31-MW3

SHEET

3 of 7

PROJECT

Ft. Stewart Swmu's

LOCATION

E-827455.09', N-676490.70' NAD-83

MANUFACTURERS DESIGNATION OF DRILL

Imersol 8300

HOLE LOCATION

SWMU 31-MW3

SURFACE ELEVATION

NAVD-88 TOC-89.11', GND-86.17'

DATE STARTED

01/28/98

DATE COMPLETED

01/28/98

DEPTH GROUNDWATER ENCOUNTERED

6.0'

DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED

OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

OVERBURDEN THICKNESS

DEPTH DRILLED INTO ROCK

TOTAL DEPTH OF HOLE

GEOTECHNICAL SAMPLES

DISTURBED

Ziplock bag

UNDISTURBED

TOTAL NUMBER OF CORE BOXES

SAMPLES FOR CHEMICAL ANALYSIS

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

TOTAL CORE RECOVERY %

DISPOSITION OF HOLE

BACKFILLED

MONITORING WELL

OTHER (SPECIFY)

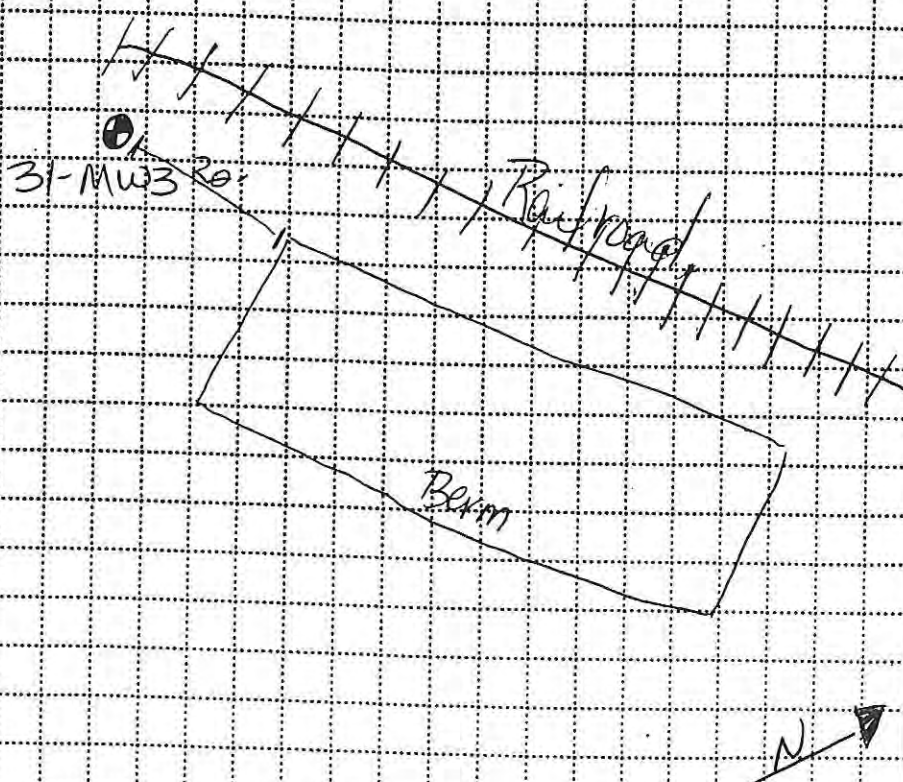
SIGNATURE OF INSPECTOR

John Ganga

LOCATION SKETCH/COMMENTS

SCALE:

NPS



JECT

Ft. Stewart Swmu's

HOLE NO.

31-MW3

PROJECT		H. Stewart Swann's		INSPECTOR		31-MW3	
DEPTH (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS (D)	GEO TECH SAMPLE OR CORE BOX NO (E)	ANALYTICAL SAMPLE NO (F)	REMARKS (G)	
		organics 1" or so					
1		Olive yellow med to fine sand with gray mottles &	Ø ppm		(311311)		
2		Gray med to fine fine sand with yellow + black mottles					
3		gray Bluish gray med to fine sand with black mottles	Ø ppm		(311312)		
4							
5		Gray med to fine sand w/ yellow & black mottles					
6		Dark brown Sandy Silt					
7		Black sandy Silt					▼ 6.0'
8							
9					8-10' Geotechnical disturbed (ziplock bag) (311313)		
10							

PROJECT

H. Stewart & Son, Inc.

A.40-22

JMU's

HOLE NO

31-MW3

PROJECT		INSPECTOR		SHEET	
Ft. Stewart Summ's				5	
DEPTH (A)	DESCRIPTION OF MATERIALS (B)	FIELD SCREENING RESULTS (C)	GEOTECH SAMPLE OR CORE BOX NO (D)	ANALYTICAL SAMPLE NO (E)	REMARKS (F)
11					
12					
13					
14					
15					
	Boring Termination Depth				

PROJECT

Ft. Stewart Summ's

HOLE NO

31-mw3

REVISED FINAL



FORSOM

PHASE II RCRA FACILITY INVESTIGATION REPORT



3d Inf Div (Mech)

FOR

16 SOLID WASTE MANAGEMENT UNITS AT FORT STEWART, GEORGIA

VOLUME III OF III: APPENDICES H-L

Prepared for



**U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT**

Contract No. DACA21-95-D-0022
Delivery Order 0009

April 2000

99-183P(PPT)/021600



SWMU 31
DEH ASPHALT TANKS

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Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station: 31-GP-01

311151

4.0 - 6.0 FT

Field Sample Type: Grab

Matrix: Soil

Collected: 01/14/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	1450	UG/KG	U	U	
REG	1,2-Dichlorobenzene	1450	UG/KG	U	U	
REG	1,3-Dichlorobenzene	1450	UG/KG	U	U	
REG	1,4-Dichlorobenzene	1450	UG/KG	U	U	
REG	2,2'-oxybis (1-chloropropane)	1450	UG/KG	U	U	
REG	2,4,5-Trichlorophenol	3620	UG/KG	U	U	
REG	2,4,6-Trichlorophenol	1450	UG/KG	U	U	
REG	2,4-Dichlorophenol	1450	UG/KG	U	U	
REG	2,4-Dimethylphenol	1450	UG/KG	U	U	
REG	2,4-Dinitrophenol	3620	UG/KG	U	U	
REG	2,4-Dinitrotoluene	1450	UG/KG	U	U	
REG	2,6-Dinitrotoluene	1450	UG/KG	U	U	
REG	2-Chloronaphthalene	1450	UG/KG	U	U	
REG	2-Chlorophenol	1450	UG/KG	U	U	
REG	2-Methylnaphthalene	1450	UG/KG	U	U	
REG	2-Methylphenol	1450	UG/KG	U	U	
REG	2-Nitroaniline	3620	UG/KG	U	U	
REG	2-Nitrophenol	1450	UG/KG	U	U	
REG	3,3'-Dichlorobenzidine	2900	UG/KG	U	U	
REG	3-Nitroaniline	3620	UG/KG	U	U	
REG	4,6-Dinitro-o-Cresol	3620	UG/KG	U	U	
REG	4-Bromophenyl-phenyl Ether	1450	UG/KG	U	U	
REG	4-Chloroaniline	1450	UG/KG	U	U	
REG	4-Chlorophenyl-phenylether	1450	UG/KG	U	U	
REG	4-Methylphenol	1450	UG/KG	U	U	
REG	4-Nitroaniline	3620	UG/KG	U	U	
REG	4-Nitrophenol	3620	UG/KG	U	U	
REG	4-chloro-3-methylphenol	1450	UG/KG	U	U	
REG	Acenaphthene	1450	UG/KG	U	U	
REG	Acenaphthylene	1450	UG/KG	U	U	
REG	Anthracene	1450	UG/KG	U	U	
REG	Benzo(a)anthracene	1740	UG/KG		=	
REG	Benzo(a)pyrene	2250	UG/KG		=	
REG	Benzo(b)fluoranthene	2850	UG/KG		=	
REG	Benzo(g,h,i)perylene	745	UG/KG	J	J	
REG	Benzo(k)fluoranthene	1450	UG/KG	U	U	
REG	Bis(2-chloroethoxy)methane	1450	UG/KG	U	U	
REG	Bis(2-chloroethyl)ether	1450	UG/KG	U	U	
REG	Bis(2-ethylhexyl)phthalate	1450	UG/KG	U	U	
REG	Butyl Benzyl Phthalate	1450	UG/KG	U	U	
REG	Carbazole	1450	UG/KG	U	U	
REG	Chrysene	1960	UG/KG		=	
REG	Di-n-butyl Phthalate	1450	UG/KG	U	U	
REG	Di-n-octyl Phthalate	1450	UG/KG	U	U	
REG	Dibenzo(a,h)anthracene	1450	UG/KG	U	U	
REG	Dibenzofuran	1450	UG/KG	U	U	
REG	Diethyl Phthalate	1450	UG/KG	U	U	
REG	Dimethyl Phthalate	1450	UG/KG	U	U	
REG	Fluoranthene	786	UG/KG	J	J	
REG	Fluorene	1450	UG/KG	U	U	
REG	Hexachlorobenzene	1450	UG/KG	U	U	
REG	Hexachlorobutadiene	1450	UG/KG	U	U	
REG	Hexachlorocyclopentadiene	1450	UG/KG	U	U	
REG	Hexachloroethane	1450	UG/KG	U	U	
REG	Indeno(1,2,3-cd)pyrene	1050	UG/KG	J	J	
REG	Isophorone	1450	UG/KG	U	U	
REG	N-Nitroso-di-n-propylamine	1450	UG/KG	U	U	
REG	N-Nitrosodiphenylamine	1450	UG/KG	U	U	
REG	Naphthalene	1450	UG/KG	U	U	
REG	Nitrobenzene	1450	UG/KG	U	U	
REG	Pentachlorophenol	3620	UG/KG	U	U	
REG	Phenanthrene	1450	UG/KG	U	U	
REG	Phenol	1450	UG/KG	U	U	
REG	Pyrene	2420	UG/KG		J H01	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5.6	UG/KG	U	U	
REG	1,1,2,2-Tetrachloroethane	5.6	UG/KG	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station: 31-GP-01

311151 4.0 - 6.0 FT Field Sample Type: Grab Matrix: Soil Collected: 01/14/1998

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,2-Trichloroethane	5.6	UG/KG	U	U	
REG	1,1-Dichloroethane	5.6	UG/KG	U	U	
REG	1,1-Dichloroethene	5.6	UG/KG	JB	U	F01,F06
REG	1,2-Dichloroethane	5.6	UG/KG	U	U	
REG	1,2-Dichloroethene	5.6	UG/KG	U	U	
REG	1,2-Dichloropropane	5.6	UG/KG	U	U	
REG	1,3-cis-Dichloropropene	5.6	UG/KG	U	U	
REG	1,3-trans-Dichloropropene	5.6	UG/KG	U	U	
REG	2-Butanone	10.3	UG/KG	J	J	
REG	2-Hexanone	11.1	UG/KG	U	U	
REG	4-Methyl-2-pentanone	11.1	UG/KG	U	U	
REG	Acetone	11.1	UG/KG	U	UJ	C05
REG	Benzene	0.54	UG/KG	J	UJ	N03
REG	Bromodichloromethane	5.6	UG/KG	U	U	
REG	Bromoform	5.6	UG/KG	U	U	
REG	Bromomethane	11.1	UG/KG	U	UJ	C05
REG	Carbon Disulfide	5.6	UG/KG	U	U	
REG	Carbon Tetrachloride	5.6	UG/KG	U	U	
REG	Chlorobenzene	0.46	UG/KG	J	UJ	N03
REG	Chloroethane	11.1	UG/KG	U	U	
REG	Chloroform	5.6	UG/KG	U	U	
REG	Chloromethane	11.1	UG/KG	U	U	
REG	Dibromochloromethane	5.6	UG/KG	U	U	
REG	Ethylbenzene	5.6	UG/KG	U	U	
REG	Methylene Chloride	5.6	UG/KG	JB	UJ	C02,C05,F01,F06
REG	Styrene	5.6	UG/KG	U	U	
REG	Tetrachloroethene	5.6	UG/KG	U	U	
REG	Toluene	2.3	UG/KG	JB	UJ	F01,F06
REG	Trichloroethene	5.6	UG/KG	JB	U	F01,F06
REG	Vinyl Chloride	11.1	UG/KG	U	U	
REG	Xylenes, Total	5.6	UG/KG	JB	U	F01,F06

314151 Field Sample Type: Grab Matrix: Geo Probe Water Collected: 01/14/1998

Sample Type	Petroleum Hydrocarbons	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Total Petroleum Hydrocarbons	0.193	MG/L	U	U	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5	UG/L	U	U	
REG	1,1,2,2-Tetrachloroethane	5	UG/L	U	U	
REG	1,1,2-Trichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloroethane	5	UG/L	U	U	
REG	1,2-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloropropane	5	UG/L	U	U	
REG	1,3-cis-Dichloropropene	5	UG/L	U	U	
REG	1,3-trans-Dichloropropene	5	UG/L	U	U	
REG	2-Butanone	10	UG/L	U	U	
REG	2-Hexanone	10	UG/L	U	U	
REG	4-Methyl-2-pentanone	10	UG/L	U	U	
REG	Acetone	10	UG/L	U	R	C01
REG	Benzene	5	UG/L	U	U	
REG	Bromodichloromethane	5	UG/L	U	U	
REG	Bromoform	5	UG/L	U	U	
REG	Bromomethane	10	UG/L	U	U	
REG	Carbon Disulfide	5	UG/L	U	U	
REG	Carbon Tetrachloride	5	UG/L	U	U	
REG	Chlorobenzene	5	UG/L	U	U	
REG	Chloroethane	10	UG/L	U	U	
REG	Chloroform	5	UG/L	U	U	
REG	Chloromethane	10	UG/L	U	U	
REG	Dibromochloromethane	5	UG/L	U	U	
REG	Ethylbenzene	5	UG/L	U	U	
REG	Methylene Chloride	5	UG/L	U	U	
REG	Styrene	5	UG/L	U	U	
REG	Tetrachloroethene	5	UG/L	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-GP-01

314151

Field Sample Type: Grab

Matrix: Geo Probe Water

Collected: 01/14/1998

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Toluene	2	UG/L	U	U	
REG	Trichloroethene	5	UG/L	U	U	
REG	Vinyl Chloride	2	UG/L	U	U	
REG	Xylenes, Total	0.35	UG/L	J	UJ	N03

314161

Field Sample Type: Field Duplicate

Matrix: Geo Probe Water

Collected: 01/14/1998

Sample Type	Petroleum Hydrocarbons	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Total Petroleum Hydrocarbons	0.438	MG/L	U	U	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5	UG/L	U	U	
REG	1,1,2,2-Tetrachloroethane	5	UG/L	U	U	
REG	1,1,2-Trichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloroethane	5	UG/L	U	U	
REG	1,2-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloropropane	5	UG/L	U	U	
REG	1,3-cis-Dichloropropene	5	UG/L	U	U	
REG	1,3-trans-Dichloropropene	5	UG/L	U	U	
REG	2-Butanone	10	UG/L	U	U	
REG	2-Hexanone	10	UG/L	U	U	
REG	4-Methyl-2-pentanone	10	UG/L	U	U	
REG	Acetone	14.6	UG/L		UJ	C01,C05,F12
REG	Benzene	5	UG/L	U	U	
REG	Bromodichloromethane	5	UG/L	U	U	
REG	Bromoforn	5	UG/L	U	U	
REG	Bromomethane	10	UG/L	U	U	
REG	Carbon Disulfide	5	UG/L	U	U	
REG	Carbon Tetrachloride	5	UG/L	U	U	
REG	Chlorobenzene	5	UG/L	U	U	
REG	Chloroethane	10	UG/L	U	U	
REG	Chloroform	5	UG/L	U	U	
REG	Chloromethane	10	UG/L	U	U	
REG	Dibromochloromethane	5	UG/L	U	U	
REG	Ethylbenzene	5	UG/L	U	U	
REG	Methylene Chloride	5	UG/L	U	U	
REG	Styrene	5	UG/L	U	U	
REG	Tetrachloroethene	5	UG/L	U	U	
REG	Toluene	0.27	UG/L	J	UJ	F12
REG	Trichloroethene	5	UG/L	U	U	
REG	Vinyl Chloride	2	UG/L	U	U	
REG	Xylenes, Total	5	UG/L	U	U	

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-GP-02

311221

2.0 - 4.0 FT

Field Sample Type: Field Duplicate

Matrix: Soil

Collected: 01/14/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	1430	UG/KG	U	U	
REG	1,2-Dichlorobenzene	1430	UG/KG	U	U	
REG	1,3-Dichlorobenzene	1430	UG/KG	U	U	
REG	1,4-Dichlorobenzene	1430	UG/KG	U	U	
REG	2,2'-oxybis (1-chloropropane)	1430	UG/KG	U	U	
REG	2,4,5-Trichlorophenol	3580	UG/KG	U	U	
REG	2,4,6-Trichlorophenol	1430	UG/KG	U	U	
REG	2,4-Dichlorophenol	1430	UG/KG	U	U	
REG	2,4-Dimethylphenol	1430	UG/KG	U	U	
REG	2,4-Dinitrophenol	3580	UG/KG	U	U	
REG	2,4-Dinitrotoluene	1430	UG/KG	U	U	
REG	2,6-Dinitrotoluene	1430	UG/KG	U	U	
REG	2-Chloronaphthalene	1430	UG/KG	U	U	
REG	2-Chlorophenol	1430	UG/KG	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station: 31-GP-02

311221

2.0 - 4.0 FT

Field Sample Type: Field Duplicate

Matrix: Soil

Collected: 01/14/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	2-Methylnaphthalene	1430	UG/KG	U	U	
REG	2-Methylphenol	1430	UG/KG	U	U	
REG	2-Nitroaniline	3580	UG/KG	U	U	
REG	2-Nitrophenol	1430	UG/KG	U	U	
REG	3,3'-Dichlorobenzidine	2860	UG/KG	U	U	
REG	3-Nitroaniline	3580	UG/KG	U	U	
REG	4,6-Dinitro-o-Cresol	3580	UG/KG	U	U	
REG	4-Bromophenyl-phenyl Ether	1430	UG/KG	U	U	
REG	4-Chloroaniline	1430	UG/KG	U	U	
REG	4-Chlorophenyl-phenylether	1430	UG/KG	U	U	
REG	4-Methylphenol	1430	UG/KG	U	U	
REG	4-Nitroaniline	3580	UG/KG	U	U	
REG	4-Nitrophenol	3580	UG/KG	U	U	
REG	4-chloro-3-methylphenol	1430	UG/KG	U	U	
REG	Acenaphthene	1430	UG/KG	U	U	
REG	Acenaphthylene	1430	UG/KG	U	U	
REG	Anthracene	1430	UG/KG	U	U	
REG	Benzo(a)anthracene	1420	UG/KG	J	J	
REG	Benzo(a)pyrene	1180	UG/KG	J	J	
REG	Benzo(b)fluoranthene	2040	UG/KG		=	
REG	Benzo(g,h,i)perylene	734	UG/KG	J	J	
REG	Benzo(k)fluoranthene	1430	UG/KG	U	U	
REG	Bis(2-chloroethoxy)methane	1430	UG/KG	U	U	
REG	Bis(2-chloroethyl)ether	1430	UG/KG	U	U	
REG	Bis(2-ethylhexyl)phthalate	1430	UG/KG	U	U	
REG	Butyl Benzyl Phthalate	1430	UG/KG	U	U	
REG	Carbazole	1430	UG/KG	U	U	
REG	Chrysene	1750	UG/KG		=	
REG	Di-n-butyl Phthalate	1430	UG/KG	U	U	
REG	Di-n-octyl Phthalate	1430	UG/KG	U	U	
REG	Dibenzo(a,h)anthracene	1430	UG/KG	U	U	
REG	Dibenzofuran	1430	UG/KG	U	U	
REG	Diethyl Phthalate	1430	UG/KG	U	U	
REG	Dimethyl Phthalate	1430	UG/KG	U	U	
REG	Fluoranthene	2870	UG/KG		=	
REG	Fluorene	1430	UG/KG	U	U	
REG	Hexachlorobenzene	1430	UG/KG	U	U	
REG	Hexachlorobutadiene	1430	UG/KG	U	U	
REG	Hexachlorocyclopentadiene	1430	UG/KG	U	U	
REG	Hexachloroethane	1430	UG/KG	U	U	
REG	Indeno(1,2,3-cd)pyrene	918	UG/KG	J	J	
REG	Isophorone	1430	UG/KG	U	U	
REG	N-Nitroso-di-n-propylamine	1430	UG/KG	U	U	
REG	N-Nitrosodiphenylamine	1430	UG/KG	U	U	
REG	Naphthalene	1430	UG/KG	U	U	
REG	Nitrobenzene	1430	UG/KG	U	U	
REG	Pentachlorophenol	3580	UG/KG	U	U	
REG	Phenanthrene	3000	UG/KG		=	
REG	Phenol	1430	UG/KG	U	U	
REG	Pyrene	4100	UG/KG		=	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REA	1,1,1-Trichloroethane	5.4	UG/KG	U	UJ	A03
REA	1,1,2,2-Tetrachloroethane	5.4	UG/KG	U	UJ	A03
REA	1,1,2-Trichloroethane	5.4	UG/KG	U	UJ	A03
REA	1,1-Dichloroethane	5.4	UG/KG	U	UJ	A03
REA	1,1-Dichloroethene	5.4	UG/KG	JB	UJ	A03,F01,F06
REA	1,2-Dichloroethane	5.4	UG/KG	U	UJ	A03
REA	1,2-Dichloroethene	5.4	UG/KG	U	UJ	A03
REA	1,2-Dichloropropane	5.4	UG/KG	U	UJ	A03
REA	1,3-cis-Dichloropropene	5.4	UG/KG	U	UJ	A03
REA	1,3-trans-Dichloropropene	5.4	UG/KG	U	UJ	A03
REA	2-Butanone	10.9	UG/KG	U	R	A03,C05,C01
REA	2-Hexanone	10.9	UG/KG	U	UJ	A03
REA	4-Methyl-2-pentanone	10.9	UG/KG	U	UJ	A03
REA	Acetone	10.9	UG/KG	U	R	A03,C01
REA	Benzene	5.4	UG/KG	U	UJ	A03
REA	Bromodichloromethane	5.4	UG/KG	U	UJ	A03

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station: 31-GP-02

311221

2.0 - 4.0 FT

Field Sample Type: Field Duplicate

Matrix: Soil

Collected: 01/14/1998

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REA	Bromoform	5.4	UG/KG	U	UJ	A03
REA	Bromomethane	10.9	UG/KG	U	UJ	A03
REA	Carbon Disulfide	5.4	UG/KG	U	UJ	A03,C01
REA	Carbon Tetrachloride	5.4	UG/KG	U	UJ	A03
REA	Chlorobenzene	5.4	UG/KG	U	UJ	A03
REA	Chloroethane	10.9	UG/KG	U	UJ	A03
REA	Chloroform	5.4	UG/KG	U	UJ	A03
REA	Chloromethane	10.9	UG/KG	U	UJ	A03
REA	Dibromochloromethane	5.4	UG/KG	U	UJ	A03
REA	Ethylbenzene	5.4	UG/KG	U	UJ	A03
REA	Methylene Chloride	5.4	UG/KG	U	UJ	A03,C02,C05
REA	Styrene	5.4	UG/KG	U	UJ	A03
REA	Tetrachloroethene	5.4	UG/KG	U	UJ	A03
REA	Toluene	2.2	UG/KG	JB	UJ	A03,F01,F06
REA	Trichloroethene	5.4	UG/KG	U	UJ	A03
REA	Vinyl Chloride	10.9	UG/KG	U	UJ	A03
REA	Xylenes, Total	5.4	UG/KG	U	UJ	A03

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5.4	UG/KG	U	U	
REG	1,1,2,2-Tetrachloroethane	5.4	UG/KG	U	R	K02
REG	1,1,2-Trichloroethane	5.4	UG/KG	U	U	
REG	1,1-Dichloroethane	5.4	UG/KG	U	U	
REG	1,1-Dichloroethene	5.4	UG/KG	U	U	
REG	1,2-Dichloroethane	5.4	UG/KG	U	U	
REG	1,2-Dichloroethene	5.4	UG/KG	U	U	
REG	1,2-Dichloropropane	5.4	UG/KG	U	U	
REG	1,3-cis-Dichloropropene	5.4	UG/KG	U	U	
REG	1,3-trans-Dichloropropene	5.4	UG/KG	U	U	
REG	2-Butanone	10.9	UG/KG	U	U	
REG	2-Hexanone	10.9	UG/KG	U	R	K02
REG	4-Methyl-2-pentanone	10.9	UG/KG	U	U	
REG	Acetone	10.9	UG/KG	U	UJ	C05
REG	Benzene	5.4	UG/KG	U	U	
REG	Bromodichloromethane	5.4	UG/KG	U	U	
REG	Bromoform	5.4	UG/KG	U	R	K02
REG	Bromomethane	10.9	UG/KG	U	UJ	C05
REG	Carbon Disulfide	5.4	UG/KG	U	U	
REG	Carbon Tetrachloride	5.4	UG/KG	U	U	
REG	Chlorobenzene	5.4	UG/KG	U	R	K02
REG	Chloroethane	10.9	UG/KG	U	U	
REG	Chloroform	5.4	UG/KG	U	U	
REG	Chloromethane	10.9	UG/KG	U	U	
REG	Dibromochloromethane	5.4	UG/KG	U	R	K02
REG	Ethylbenzene	5.4	UG/KG	U	R	K02
REG	Methylene Chloride	5.4	UG/KG	U	UJ	C02
REG	Styrene	5.4	UG/KG	U	R	K02
REG	Tetrachloroethene	5.4	UG/KG	U	R	K02
REG	Toluene	3.8	UG/KG	JB	U	F01,F07
REG	Trichloroethene	5.4	UG/KG	U	U	
REG	Vinyl Chloride	10.9	UG/KG	U	U	
REG	Xylenes, Total	5.4	UG/KG	U	R	K02

311251

2.0 - 4.0 FT

Field Sample Type: Grab

Matrix: Soil

Collected: 01/14/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	3640	UG/KG	U	U	
REG	1,2-Dichlorobenzene	3640	UG/KG	U	U	
REG	1,3-Dichlorobenzene	3640	UG/KG	U	U	
REG	1,4-Dichlorobenzene	3640	UG/KG	U	U	
REG	2,2'-oxybis (1-chloropropane)	3640	UG/KG	U	U	
REG	2,4,5-Trichlorophenol	9110	UG/KG	U	U	
REG	2,4,6-Trichlorophenol	3640	UG/KG	U	U	
REG	2,4-Dichlorophenol	3640	UG/KG	U	U	
REG	2,4-Dimethylphenol	3640	UG/KG	U	U	
REG	2,4-Dinitrophenol	9110	UG/KG	U	U	
REG	2,4-Dinitrotoluene	3640	UG/KG	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-GP-02

311251

2.0 - 4.0 FT

Field Sample Type: Grab

Matrix: Soil

Collected: 01/14/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	2,6-Dinitrotoluene	3640	UG/KG	U	U	
REG	2-Chloronaphthalene	3640	UG/KG	U	U	
REG	2-Chlorophenol	3640	UG/KG	U	U	
REG	2-Methylnaphthalene	3640	UG/KG	U	U	
REG	2-Methylphenol	3640	UG/KG	U	U	
REG	2-Nitroaniline	9110	UG/KG	U	U	
REG	2-Nitrophenol	3640	UG/KG	U	U	
REG	3,3'-Dichlorobenzidine	7280	UG/KG	U	U	
REG	3-Nitroaniline	9110	UG/KG	U	U	
REG	4,6-Dinitro-o-Cresol	9110	UG/KG	U	U	
REG	4-Bromophenyl-phenyl Ether	3640	UG/KG	U	U	
REG	4-Chloroaniline	3640	UG/KG	U	U	
REG	4-Chlorophenyl-phenylether	3640	UG/KG	U	U	
REG	4-Methylphenol	3640	UG/KG	U	U	
REG	4-Nitroaniline	9110	UG/KG	U	U	
REG	4-Nitrophenol	9110	UG/KG	U	U	
REG	4-chloro-3-methylphenol	3640	UG/KG	U	U	
REG	Acenaphthene	3640	UG/KG	U	U	
REG	Acenaphthylene	3640	UG/KG	U	U	
REG	Anthracene	3640	UG/KG	U	U	
REG	Benzo(a)anthracene	3640	UG/KG	U	U	
REG	Benzo(a)pyrene	3640	UG/KG	U	U	
REG	Benzo(b)fluoranthene	3640	UG/KG	U	U	
REG	Benzo(g,h,i)perylene	3640	UG/KG	U	U	
REG	Benzo(k)fluoranthene	3640	UG/KG	U	U	
REG	Bis(2-chloroethoxy)methane	3640	UG/KG	U	U	
REG	Bis(2-chloroethyl)ether	3640	UG/KG	U	U	
REG	Bis(2-ethylhexyl)phthalate	3640	UG/KG	U	U	
REG	Butyl Benzyl Phthalate	3640	UG/KG	U	U	
REG	Carbazole	3640	UG/KG	U	U	
REG	Chrysene	3640	UG/KG	U	U	
REG	Di-n-butyl Phthalate	3640	UG/KG	U	U	
REG	Di-n-octyl Phthalate	3640	UG/KG	U	U	
REG	Dibenzo(a,h)anthracene	3640	UG/KG	U	U	
REG	Dibenzofuran	3640	UG/KG	U	U	
REG	Diethyl Phthalate	3640	UG/KG	U	U	
REG	Dimethyl Phthalate	3640	UG/KG	U	U	
REG	Fluoranthene	3640	UG/KG	U	U	
REG	Fluorene	3640	UG/KG	U	U	
REG	Hexachlorobenzene	3640	UG/KG	U	U	
REG	Hexachlorobutadiene	3640	UG/KG	U	U	
REG	Hexachlorocyclopentadiene	3640	UG/KG	U	U	
REG	Hexachloroethane	3640	UG/KG	U	U	
REG	Indeno(1,2,3-cd)pyrene	3640	UG/KG	U	U	
REG	Isophorone	3640	UG/KG	U	U	
REG	N-Nitroso-di-n-propylamine	3640	UG/KG	U	U	
REG	N-Nitrosodiphenylamine	3640	UG/KG	U	U	
REG	Naphthalene	3640	UG/KG	U	U	
REG	Nitrobenzene	3640	UG/KG	U	U	
REG	Pentachlorophenol	9110	UG/KG	U	U	
REG	Phenanthrene	3640	UG/KG	U	U	
REG	Phenol	3640	UG/KG	U	U	
REG	Pyrene	3640	UG/KG	U	U	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5.6	UG/KG	U	U	
REG	1,1,2,2-Tetrachloroethane	5.6	UG/KG	U	U	
REG	1,1,2-Trichloroethane	5.6	UG/KG	U	U	
REG	1,1-Dichloroethane	5.6	UG/KG	U	U	
REG	1,1-Dichloroethene	5.6	UG/KG	JB	U	F01,F06
REG	1,2-Dichloroethane	5.6	UG/KG	U	U	
REG	1,2-Dichloroethene	5.6	UG/KG	U	U	
REG	1,2-Dichloropropane	5.6	UG/KG	U	U	
REG	1,3-cis-Dichloropropene	5.6	UG/KG	U	U	
REG	1,3-trans-Dichloropropene	5.6	UG/KG	U	U	
REG	2-Butanone	11.1	UG/KG	U	U	
REG	2-Hexanone	11.1	UG/KG	U	U	
REG	4-Methyl-2-pentanone	11.1	UG/KG	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station: 31-GP-02

311251 2.0 - 4.0 FT Field Sample Type: Grab Matrix: Soil Collected: 01/14/1998

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Acetone	11.1	UG/KG	U	UJ	C05
REG	Benzene	0.48	UG/KG	J	UJ	N03
REG	Bromodichloromethane	5.6	UG/KG	U	U	
REG	Bromoform	5.6	UG/KG	U	U	
REG	Bromomethane	11.1	UG/KG	U	UJ	C05
REG	Carbon Disulfide	5.6	UG/KG	U	U	
REG	Carbon Tetrachloride	5.6	UG/KG	U	U	
REG	Chlorobenzene	5.6	UG/KG	U	U	
REG	Chloroethane	11.1	UG/KG	U	U	
REG	Chloroform	5.6	UG/KG	U	U	
REG	Chloromethane	11.1	UG/KG	U	U	
REG	Dibromochloromethane	5.6	UG/KG	U	U	
REG	Ethylbenzene	5.6	UG/KG	U	U	
REG	Methylene Chloride	5.6	UG/KG	JB	UJ	C02,C05,F01,F06
REG	Styrene	5.6	UG/KG	U	U	
REG	Tetrachloroethene	5.6	UG/KG	U	U	
REG	Toluene	8.6	UG/KG	B	UJ	F01,F08,F12
REG	Trichloroethene	5.6	UG/KG	JB	U	F01,F06
REG	Vinyl Chloride	11.1	UG/KG	U	U	
REG	Xylenes, Total	5.6	UG/KG	U	U	

314251 Field Sample Type: Grab Matrix: Geo Probe Water Collected: 01/14/1998

Sample Type	Petroleum Hydrocarbons	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Total Petroleum Hydrocarbons	0.885	MG/L	U	U	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5	UG/L	U	U	
REG	1,1,2,2-Tetrachloroethane	5	UG/L	U	U	
REG	1,1,2-Trichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloroethane	5	UG/L	U	U	
REG	1,2-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloropropane	5	UG/L	U	U	
REG	1,3-cis-Dichloropropene	5	UG/L	U	U	
REG	1,3-trans-Dichloropropene	5	UG/L	U	U	
REG	2-Butanone	10	UG/L	U	U	
REG	2-Hexanone	10	UG/L	U	U	
REG	4-Methyl-2-pentanone	10	UG/L	U	U	
REG	Acetone	24.3	UG/L		UJ	C01,F12
REG	Benzene	5	UG/L	U	U	
REG	Bromodichloromethane	5	UG/L	U	U	
REG	Bromoform	5	UG/L	U	UJ	C05
REG	Bromomethane	10	UG/L	U	U	
REG	Carbon Disulfide	5	UG/L	U	UJ	C05
REG	Carbon Tetrachloride	5	UG/L	U	U	
REG	Chlorobenzene	5	UG/L	U	U	
REG	Chloroethane	10	UG/L	U	U	
REG	Chloroform	5	UG/L	U	U	
REG	Chloromethane	10	UG/L	U	U	
REG	Dibromochloromethane	5	UG/L	U	U	
REG	Ethylbenzene	5	UG/L	U	U	
REG	Methylene Chloride	5	UG/L	U	U	
REG	Styrene	5	UG/L	U	U	
REG	Tetrachloroethene	5	UG/L	U	U	
REG	Toluene	2	UG/L	J	UJ	F04,F06
REG	Trichloroethene	5	UG/L	U	U	
REG	Vinyl Chloride	2	UG/L	U	U	
REG	Xylenes, Total	5	UG/L	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-GP-03

314351

Field Sample Type: Grab

Matrix: Geo Probe Water

Collected: 01/14/1998

Sample Type	Petroleum Hydrocarbons	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Total Petroleum Hydrocarbons	0.353	MG/L	U	U	
Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5	UG/L	U	U	
REG	1,1,2,2-Tetrachloroethane	5	UG/L	U	U	
REG	1,1,2-Trichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloroethane	5	UG/L	U	U	
REG	1,2-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloropropane	5	UG/L	U	U	
REG	1,3-cis-Dichloropropene	5	UG/L	U	U	
REG	1,3-trans-Dichloropropene	5	UG/L	U	U	
REG	2-Butanone	10	UG/L	U	U	
REG	2-Hexanone	10	UG/L	U	U	
REG	4-Methyl-2-pentanone	10	UG/L	U	U	
REG	Acetone	10	UG/L	U	R	C01
REG	Benzene	5	UG/L	U	U	
REG	Bromodichloromethane	5	UG/L	U	U	
REG	Bromoform	5	UG/L	U	U	
REG	Bromomethane	10	UG/L	U	U	
REG	Carbon Disulfide	5	UG/L	U	U	
REG	Carbon Tetrachloride	5	UG/L	U	U	
REG	Chlorobenzene	5	UG/L	U	U	
REG	Chloroethane	10	UG/L	U	U	
REG	Chloroform	5	UG/L	U	U	
REG	Chloromethane	10	UG/L	U	U	
REG	Dibromochloromethane	5	UG/L	U	U	
REG	Ethylbenzene	5	UG/L	U	U	
REG	Methylene Chloride	5	UG/L	U	U	
REG	Styrene	5	UG/L	U	U	
REG	Tetrachloroethene	5	UG/L	U	U	
REG	Toluene	0.28	UG/L	J	UJ	F12
REG	Trichloroethene	5	UG/L	U	U	
REG	Vinyl Chloride	2	UG/L	U	U	
REG	Xylenes, Total	5	UG/L	U	U	

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-GP-04

314451

Field Sample Type: Grab

Matrix: Geo Probe Water

Collected: 01/14/1998

Sample Type	Petroleum Hydrocarbons	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Total Petroleum Hydrocarbons	8.34	MG/L	U	U	
Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5	UG/L	U	U	
REG	1,1,2,2-Tetrachloroethane	5	UG/L	U	U	
REG	1,1,2-Trichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloroethane	5	UG/L	U	U	
REG	1,2-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloropropane	5	UG/L	U	U	
REG	1,3-cis-Dichloropropene	5	UG/L	U	U	
REG	1,3-trans-Dichloropropene	5	UG/L	U	U	
REG	2-Butanone	10	UG/L	U	U	
REG	2-Hexanone	10	UG/L	U	U	
REG	4-Methyl-2-pentanone	10	UG/L	U	U	
REG	Acetone	34.5	UG/L	J	U	C01
REG	Benzene	5	UG/L	U	U	
REG	Bromodichloromethane	5	UG/L	U	U	
REG	Bromoform	5	UG/L	U	UJ	C05
REG	Bromomethane	10	UG/L	U	U	
REG	Carbon Disulfide	5	UG/L	U	UJ	C05

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-GP-04

314451

Field Sample Type: Grab

Matrix: Geo Probe Water

Collected: 01/14/1998

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Carbon Tetrachloride	5	UG/L	U	U	
REG	Chlorobenzene	5	UG/L	U	U	
REG	Chloroethane	10	UG/L	U	U	
REG	Chloroform	5	UG/L	U	U	
REG	Chloromethane	10	UG/L	U	U	
REG	Dibromochloromethane	5	UG/L	U	U	
REG	Ethylbenzene	5	UG/L	U	U	
REG	Methylene Chloride	5	UG/L	U	U	
REG	Styrene	5	UG/L	U	U	
REG	Tetrachloroethene	5	UG/L	U	U	
REG	Toluene	2	UG/L	J	UJ	F04,F06
REG	Trichloroethene	5	UG/L	U	U	
REG	Vinyl Chloride	2	UG/L	U	U	
REG	Xylenes, Total	5	UG/L	U	U	

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-GP-05

311551

4.0 - 6.0 FT

Field Sample Type: Grab

Matrix: Soil

Collected: 01/14/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	15000	UG/KG	U	U	
REG	1,2-Dichlorobenzene	15000	UG/KG	U	U	
REG	1,3-Dichlorobenzene	15000	UG/KG	U	U	
REG	1,4-Dichlorobenzene	15000	UG/KG	U	U	
REG	2,2'-oxybis (1-chloropropane)	15000	UG/KG	U	U	
REG	2,4,5-Trichlorophenol	37600	UG/KG	U	U	
REG	2,4,6-Trichlorophenol	15000	UG/KG	U	U	
REG	2,4-Dichlorophenol	15000	UG/KG	U	U	
REG	2,4-Dimethylphenol	15000	UG/KG	U	U	
REG	2,4-Dinitrophenol	37600	UG/KG	U	U	
REG	2,4-Dinitrotoluene	15000	UG/KG	U	U	
REG	2,6-Dinitrotoluene	15000	UG/KG	U	U	
REG	2-Chloronaphthalene	15000	UG/KG	U	U	
REG	2-Chlorophenol	15000	UG/KG	U	U	
REG	2-Methylnaphthalene	15000	UG/KG	U	U	
REG	2-Methylphenol	15000	UG/KG	U	U	
REG	2-Nitroaniline	37600	UG/KG	U	U	
REG	2-Nitrophenol	15000	UG/KG	U	U	
REG	3,3'-Dichlorobenzidine	30000	UG/KG	U	U	
REG	3-Nitroaniline	37600	UG/KG	U	U	
REG	4,6-Dinitro-o-Cresol	37600	UG/KG	U	U	
REG	4-Bromophenyl-phenyl Ether	15000	UG/KG	U	U	
REG	4-Chloroaniline	15000	UG/KG	U	U	
REG	4-Chlorophenyl-phenylether	15000	UG/KG	U	U	
REG	4-Methylphenol	15000	UG/KG	U	U	
REG	4-Nitroaniline	37600	UG/KG	U	U	
REG	4-Nitrophenol	37600	UG/KG	U	U	
REG	4-chloro-3-methylphenol	15000	UG/KG	U	U	
REG	Acenaphthene	15000	UG/KG	U	U	
REG	Acenaphthylene	15000	UG/KG	U	U	
REG	Anthracene	15000	UG/KG	U	U	
REG	Benzo(a)anthracene	15000	UG/KG	U	U	
REG	Benzo(a)pyrene	15000	UG/KG	U	U	
REG	Benzo(b)fluoranthene	15000	UG/KG	U	U	
REG	Benzo(g,h,i)perylene	15000	UG/KG	U	U	
REG	Benzo(k)fluoranthene	15000	UG/KG	U	U	
REG	Bis(2-chloroethoxy)methane	15000	UG/KG	U	U	
REG	Bis(2-chloroethyl)ether	15000	UG/KG	U	U	
REG	Bis(2-ethylhexyl)phthalate	15000	UG/KG	U	U	
REG	Butyl Benzyl Phthalate	15000	UG/KG	U	U	
REG	Carbazole	15000	UG/KG	U	U	
REG	Chrysene	15000	UG/KG	U	U	
REG	Di-n-butyl Phthalate	15000	UG/KG	U	U	
REG	Di-n-octyl Phthalate	15000	UG/KG	U	U	
REG	Dibenzo(a,h)anthracene	15000	UG/KG	U	U	
REG	Dibenzofuran	15000	UG/KG	U	U	
REG	Diethyl Phthalate	15000	UG/KG	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station: 31-GP-05

311551

4.0 - 6.0 FT

Field Sample Type: Grab

Matrix: Soil

Collected: 01/14/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Dimethyl Phthalate	15000	UG/KG	U	U	
REG	Fluoranthene	15000	UG/KG	U	U	
REG	Fluorene	15000	UG/KG	U	U	
REG	Hexachlorobenzene	15000	UG/KG	U	U	
REG	Hexachlorobutadiene	15000	UG/KG	U	U	
REG	Hexachlorocyclopentadiene	15000	UG/KG	U	U	
REG	Hexachloroethane	15000	UG/KG	U	U	
REG	Indeno(1,2,3-cd)pyrene	15000	UG/KG	U	U	
REG	Isophorone	15000	UG/KG	U	U	
REG	N-Nitroso-di-n-propylamine	15000	UG/KG	U	U	
REG	N-Nitrosodiphenylamine	15000	UG/KG	U	U	
REG	Naphthalene	15000	UG/KG	U	U	
REG	Nitrobenzene	15000	UG/KG	U	U	
REG	Pentachlorophenol	37600	UG/KG	U	U	
REG	Phenanthrene	15000	UG/KG	U	U	
REG	Phenol	15000	UG/KG	U	U	
REG	Pyrene	15000	UG/KG	U	U	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REA	1,1,1-Trichloroethane	57.5	UG/KG	U	UJ	A03
REA	1,1,2,2-Tetrachloroethane	57.5	UG/KG	U	UJ	A03
REA	1,1,2-Trichloroethane	57.5	UG/KG	U	UJ	A03
REA	1,1-Dichloroethane	57.5	UG/KG	U	UJ	A03
REA	1,1-Dichloroethene	8.1	UG/KG	JB	J	A03,F01,F08
REA	1,2-Dichloroethane	57.5	UG/KG	U	UJ	A03
REA	1,2-Dichloroethene	57.5	UG/KG	U	UJ	A03
REA	1,2-Dichloropropane	5	UG/KG	J	J	A03
REA	1,3-cis-Dichloropropene	57.5	UG/KG	U	UJ	A03
REA	1,3-trans-Dichloropropene	57.5	UG/KG	U	UJ	A03
REA	2-Butanone	68.7	UG/KG	J	J	A03,C05
REA	2-Hexanone	1240	UG/KG	E	J	A03,C05
REA	4-Methyl-2-pentanone	115	UG/KG	U	UJ	A03
REA	Acetone	690	UG/KG	J	J	A03,C01,C05
REA	Benzene	57.5	UG/KG	U	UJ	A03
REA	Bromodichloromethane	57.5	UG/KG	U	UJ	A03
REA	Bromoform	57.5	UG/KG	U	UJ	A03
REA	Bromomethane	115	UG/KG	U	UJ	A03
REA	Carbon Disulfide	57.5	UG/KG	U	UJ	A03
REA	Carbon Tetrachloride	57.5	UG/KG	U	UJ	A03
REA	Chlorobenzene	57.5	UG/KG	U	UJ	A03
REA	Chloroethane	115	UG/KG	U	UJ	A03
REA	Chloroform	57.5	UG/KG	U	UJ	A03
REA	Chloromethane	115	UG/KG	U	UJ	A03
REA	Dibromochloromethane	57.5	UG/KG	U	UJ	A03
REA	Ethylbenzene	200	UG/KG	J	J	A03
REA	Methylene Chloride	57.5	UG/KG	U	UJ	A03,C02,C05
REA	Styrene	17.8	UG/KG	J	J	A03
REA	Tetrachloroethene	57.5	UG/KG	U	UJ	A03
REA	Toluene	25.9	UG/KG	JB	UJ	A03,F01,F08,F12
REA	Trichloroethene	3.3	UG/KG	J	J	A03
REA	Vinyl Chloride	115	UG/KG	U	UJ	A03
REA	Xylenes, Total	955	UG/KG	J	J	A03

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	57.5	UG/KG	U	U	
REG	1,1,2,2-Tetrachloroethane	57.5	UG/KG	U	R	K02
REG	1,1,2-Trichloroethane	57.5	UG/KG	U	U	
REG	1,1-Dichloroethane	57.5	UG/KG	U	U	
REG	1,1-Dichloroethene	57.5	UG/KG	U	U	
REG	1,2-Dichloroethane	57.5	UG/KG	U	U	
REG	1,2-Dichloroethene	57.5	UG/KG	U	U	
REG	1,2-Dichloropropane	57.5	UG/KG	U	U	
REG	1,3-cis-Dichloropropene	57.5	UG/KG	U	U	
REG	1,3-trans-Dichloropropene	57.5	UG/KG	U	U	
REG	2-Butanone	115	UG/KG	U	U	
REG	2-Hexanone	115	UG/KG	U	R	K02

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station: 31-GP-05

311551 4.0 - 6.0 FT Field Sample Type: Grab Matrix: Soil Collected: 01/14/1998

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	4-Methyl-2-pentanone	115	UG/KG	U	U	
REG	Acetone	115	UG/KG	U	UJ	C05
REG	Benzene	57.5	UG/KG	U	U	
REG	Bromodichloromethane	57.5	UG/KG	U	U	
REG	Bromoform	57.5	UG/KG	U	R	K02
REG	Bromomethane	115	UG/KG	U	UJ	C05
REG	Carbon Disulfide	57.5	UG/KG	U	U	
REG	Carbon Tetrachloride	57.5	UG/KG	U	U	
REG	Chlorobenzene	57.5	UG/KG	U	R	K02
REG	Chloroethane	115	UG/KG	U	U	
REG	Chloroform	57.5	UG/KG	U	U	
REG	Chloromethane	115	UG/KG	U	U	
REG	Dibromochloromethane	57.5	UG/KG	U	R	K02
REG	Ethylbenzene	17.7	UG/KG	J	J	K02
REG	Methylene Chloride	57.5	UG/KG	U	UJ	C02
REG	Styrene	57.5	UG/KG	U	R	K02
REG	Tetrachloroethene	57.5	UG/KG	U	R	K02
REG	Toluene	57.5	UG/KG	U	U	
REG	Trichloroethene	57.5	UG/KG	U	U	
REG	Vinyl Chloride	115	UG/KG	U	U	
REG	Xylenes, Total	94.3	UG/KG	B	J	K02,F01,F08

314551 Field Sample Type: Grab Matrix: Geo Probe Water Collected: 01/14/1998

Sample Type	Petroleum Hydrocarbons	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Total Petroleum Hydrocarbons	45.6	MG/L	=		

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5	UG/L	U	U	
REG	1,1,2,2-Tetrachloroethane	5	UG/L	U	U	
REG	1,1,2-Trichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloroethane	5	UG/L	U	U	
REG	1,2-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloropropane	5	UG/L	U	U	
REG	1,3-cis-Dichloropropene	5	UG/L	U	U	
REG	1,3-trans-Dichloropropene	5	UG/L	U	U	
REG	2-Butanone	10	UG/L	U	U	
REG	2-Hexanone	10	UG/L	U	U	
REG	4-Methyl-2-pentanone	10	UG/L	U	U	
REG	Acetone	152	UG/L	E	J	C01
REG	Benzene	1.1	UG/L	J	UJ	N03
REG	Bromodichloromethane	5	UG/L	U	U	
REG	Bromoform	5	UG/L	U	UJ	C05
REG	Bromomethane	10	UG/L	U	U	
REG	Carbon Disulfide	5	UG/L	U	UJ	C05
REG	Carbon Tetrachloride	5	UG/L	U	U	
REG	Chlorobenzene	5	UG/L	U	U	
REG	Chloroethane	10	UG/L	U	U	
REG	Chloroform	5	UG/L	U	U	
REG	Chloromethane	10	UG/L	U	U	
REG	Dibromochloromethane	5	UG/L	U	U	
REG	Ethylbenzene	27.1	UG/L		=	
REG	Methylene Chloride	5	UG/L	U	U	
REG	Styrene	5	UG/L	U	U	
REG	Tetrachloroethene	5	UG/L	U	U	
REG	Toluene	4	UG/L		UJ	F12
REG	Trichloroethene	5	UG/L	U	U	
REG	Vinyl Chloride	2	UG/L	U	U	
REG	Xylenes, Total	105	UG/L		=	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-GP-06

311651

4.0 - 6.0 FT

Field Sample Type: Grab

Matrix: Soil

Collected: 01/14/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	381	UG/KG	U	U	
REG	1,2-Dichlorobenzene	381	UG/KG	U	U	
REG	1,3-Dichlorobenzene	381	UG/KG	U	U	
REG	1,4-Dichlorobenzene	381	UG/KG	U	U	
REG	2,2'-oxybis (1-chloropropane)	381	UG/KG	U	U	
REG	2,4,5-Trichlorophenol	953	UG/KG	U	U	
REG	2,4,6-Trichlorophenol	381	UG/KG	U	U	
REG	2,4-Dichlorophenol	381	UG/KG	U	U	
REG	2,4-Dimethylphenol	381	UG/KG	U	U	
REG	2,4-Dinitrophenol	953	UG/KG	U	U	
REG	2,4-Dinitrotoluene	381	UG/KG	U	U	
REG	2,6-Dinitrotoluene	381	UG/KG	U	U	
REG	2-Chloronaphthalene	381	UG/KG	U	U	
REG	2-Chlorophenol	381	UG/KG	U	U	
REG	2-Methylnaphthalene	381	UG/KG	U	U	
REG	2-Methylphenol	381	UG/KG	U	U	
REG	2-Nitroaniline	953	UG/KG	U	U	
REG	2-Nitrophenol	381	UG/KG	U	U	
REG	3,3'-Dichlorobenzidine	762	UG/KG	U	U	
REG	3-Nitroaniline	953	UG/KG	U	U	
REG	4,6-Dinitro-o-Cresol	953	UG/KG	U	U	
REG	4-Bromophenyl-phenyl Ether	381	UG/KG	U	U	
REG	4-Chloroaniline	381	UG/KG	U	U	
REG	4-Chlorophenyl-phenylether	381	UG/KG	U	U	
REG	4-Methylphenol	381	UG/KG	U	U	
REG	4-Nitroaniline	953	UG/KG	U	U	
REG	4-Nitrophenol	953	UG/KG	U	U	
REG	4-chloro-3-methylphenol	381	UG/KG	U	U	
REG	Acenaphthene	381	UG/KG	U	U	
REG	Acenaphthylene	381	UG/KG	U	U	
REG	Anthracene	381	UG/KG	U	U	
REG	Benzo(a)anthracene	381	UG/KG	U	U	
REG	Benzo(a)pyrene	381	UG/KG	U	U	
REG	Benzo(b)fluoranthene	381	UG/KG	U	U	
REG	Benzo(g,h,i)perylene	381	UG/KG	U	U	
REG	Benzo(k)fluoranthene	381	UG/KG	U	U	
REG	Bis(2-chloroethoxy)methane	381	UG/KG	U	U	
REG	Bis(2-chloroethyl)ether	381	UG/KG	U	U	
REG	Bis(2-ethylhexyl)phthalate	381	UG/KG	U	U	
REG	Butyl Benzyl Phthalate	381	UG/KG	U	U	
REG	Carbazole	381	UG/KG	U	U	
REG	Chrysene	381	UG/KG	U	U	
REG	Di-n-butyl Phthalate	381	UG/KG	U	U	
REG	Di-n-octyl Phthalate	381	UG/KG	U	U	
REG	Dibenzo(a,h)anthracene	381	UG/KG	U	U	
REG	Dibenzofuran	381	UG/KG	U	U	
REG	Diethyl Phthalate	381	UG/KG	U	U	
REG	Dimethyl Phthalate	381	UG/KG	U	U	
REG	Fluoranthene	381	UG/KG	U	U	
REG	Fluorene	381	UG/KG	U	U	
REG	Hexachlorobenzene	381	UG/KG	U	U	
REG	Hexachlorobutadiene	381	UG/KG	U	U	
REG	Hexachlorocyclopentadiene	381	UG/KG	U	U	
REG	Hexachloroethane	381	UG/KG	U	U	
REG	Indeno(1,2,3-cd)pyrene	381	UG/KG	U	U	
REG	Isophorone	381	UG/KG	U	U	
REG	N-Nitroso-di-n-propylamine	381	UG/KG	U	U	
REG	N-Nitrosodiphenylamine	381	UG/KG	U	U	
REG	Naphthalene	381	UG/KG	U	U	
REG	Nitrobenzene	381	UG/KG	U	U	
REG	Pentachlorophenol	953	UG/KG	U	U	
REG	Phenanthrene	381	UG/KG	U	U	
REG	Phenol	381	UG/KG	U	U	
REG	Pyrene	381	UG/KG	U	U	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REA	1,1,1-Trichloroethane	5.8	UG/KG	U	UJ	A03
REA	1,1,2,2-Tetrachloroethane	5.8	UG/KG	U	UJ	A03,K01

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-GP-06

311651

4.0 - 6.0 FT

Field Sample Type: Grab

Matrix: Soil

Collected: 01/14/1998

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REA	1,1,2-Trichloroethane	5.8	UG/KG	U	UJ	A03
REA	1,1-Dichloroethane	5.8	UG/KG	U	UJ	A03
REA	1,1-Dichloroethene	5.8	UG/KG	JB	UJ	A03,F01,F06
REA	1,2-Dichloroethane	5.8	UG/KG	JB	UJ	A03,F01,F06
REA	1,2-Dichloroethene	5.8	UG/KG	U	UJ	A03
REA	1,2-Dichloropropane	5.8	UG/KG	U	UJ	A03
REA	1,3-cis-Dichloropropene	5.8	UG/KG	U	UJ	A03
REA	1,3-trans-Dichloropropene	5.8	UG/KG	U	UJ	A03
REA	2-Butanone	11.6	UG/KG	U	R	A03,C05
REA	2-Hexanone	11.6	UG/KG	U	UJ	A03
REA	4-Methyl-2-pentanone	11.6	UG/KG	U	UJ	A03
REA	Acetone	11.6	UG/KG	U	R	A03,C01
REA	Benzene	5.8	UG/KG	U	UJ	A03
REA	Bromodichloromethane	5.8	UG/KG	U	UJ	A03
REA	Bromoform	5.8	UG/KG	U	UJ	A03
REA	Bromomethane	11.6	UG/KG	U	UJ	A03
REA	Carbon Disulfide	5.8	UG/KG	U	UJ	A03
REA	Carbon Tetrachloride	5.8	UG/KG	U	UJ	A03
REA	Chlorobenzene	5.8	UG/KG	U	UJ	A03
REA	Chloroethane	11.6	UG/KG	U	UJ	A03
REA	Chloroform	5.8	UG/KG	U	UJ	A03
REA	Chloromethane	11.6	UG/KG	U	UJ	A03
REA	Dibromochloromethane	5.8	UG/KG	U	UJ	A03
REA	Ethylbenzene	5.8	UG/KG	U	UJ	A03
REA	Methylene Chloride	5.8	UG/KG	U	UJ	A03,C02,C05
REA	Styrene	5.8	UG/KG	U	UJ	A03
REA	Tetrachloroethene	5.8	UG/KG	U	UJ	A03
REA	Toluene	2.3	UG/KG	JB	UJ	A03,F01,F06
REA	Trichloroethene	5.8	UG/KG	U	UJ	A03
REA	Vinyl Chloride	11.6	UG/KG	U	UJ	A03
REA	Xylenes, Total	5.8	UG/KG	U	UJ	A03

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5.8	UG/KG	U	U	
REG	1,1,2,2-Tetrachloroethane	5.8	UG/KG	U	R	K02
REG	1,1,2-Trichloroethane	5.8	UG/KG	U	U	
REG	1,1-Dichloroethane	5.8	UG/KG	U	U	
REG	1,1-Dichloroethene	263	UG/KG	EB	J	F01,F08
REG	1,2-Dichloroethane	5.8	UG/KG	U	U	
REG	1,2-Dichloroethene	5.8	UG/KG	U	U	
REG	1,2-Dichloropropane	5.8	UG/KG	U	U	
REG	1,3-cis-Dichloropropene	5.8	UG/KG	U	U	
REG	1,3-trans-Dichloropropene	5.8	UG/KG	U	U	
REG	2-Butanone	11.6	UG/KG	U	U	
REG	2-Hexanone	11.6	UG/KG	U	R	K02
REG	4-Methyl-2-pentanone	11.6	UG/KG	U	U	
REG	Acetone	11.6	UG/KG	U	UJ	C05
REG	Benzene	305	UG/KG	E	J	
REG	Bromodichloromethane	5.8	UG/KG	U	U	
REG	Bromoform	5.8	UG/KG	U	R	K02
REG	Bromomethane	11.6	UG/KG	U	UJ	C05
REG	Carbon Disulfide	5.8	UG/KG	U	U	
REG	Carbon Tetrachloride	5.8	UG/KG	U	U	
REG	Chlorobenzene	353	UG/KG	E	J	K02
REG	Chloroethane	11.6	UG/KG	U	U	
REG	Chloroform	5.8	UG/KG	U	U	
REG	Chloromethane	11.6	UG/KG	U	U	
REG	Dibromochloromethane	5.8	UG/KG	U	R	K02
REG	Ethylbenzene	5.8	UG/KG	U	R	K02
REG	Methylene Chloride	5.8	UG/KG	U	UJ	C02
REG	Styrene	5.8	UG/KG	U	R	K02
REG	Tetrachloroethene	5.8	UG/KG	U	R	K02
REG	Toluene	412	UG/KG	EB	J	F01,F08
REG	Trichloroethene	311	UG/KG	EB	J	F01,F08
REG	Vinyl Chloride	11.6	UG/KG	U	U	
REG	Xylenes, Total	5.8	UG/KG	U	R	K02

314651

Field Sample Type: Grab

Matrix: Geo Probe Water

Collected: 01/14/1998

Ft. Stewart 16 SWMU

Sample Type	Petroleum Hydrocarbons	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Total Petroleum Hydrocarbons	0.124	MG/L	U	U	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5	UG/L	U	U	
REG	1,1,2,2-Tetrachloroethane	5	UG/L	U	U	
REG	1,1,2-Trichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloroethane	5	UG/L	U	U	
REG	1,2-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloropropane	5	UG/L	U	U	
REG	1,3-cis-Dichloropropene	5	UG/L	U	U	
REG	1,3-trans-Dichloropropene	5	UG/L	U	U	
REG	2-Butanone	10	UG/L	U	U	
REG	2-Hexanone	10	UG/L	U	U	
REG	4-Methyl-2-pentanone	10	UG/L	U	U	
REG	Acetone	565	UG/L	E	J	C01,C05
REG	Benzene	5	UG/L	U	U	
REG	Bromodichloromethane	5	UG/L	U	U	
REG	Bromoform	5	UG/L	U	U	
REG	Bromomethane	10	UG/L	U	U	
REG	Carbon Disulfide	5	UG/L	U	U	
REG	Carbon Tetrachloride	5	UG/L	U	U	
REG	Chlorobenzene	5	UG/L	U	U	
REG	Chloroethane	10	UG/L	U	U	
REG	Chloroform	5	UG/L	U	U	
REG	Chloromethane	10	UG/L	U	U	
REG	Dibromochloromethane	5	UG/L	U	U	
REG	Ethylbenzene	0.19	UG/L	J	UJ	N03
REG	Methylene Chloride	5	UG/L	U	U	
REG	Styrene	5	UG/L	U	U	
REG	Tetrachloroethene	5	UG/L	U	U	
REG	Toluene	0.6	UG/L	J	UJ	F12
REG	Trichloroethene	5	UG/L	U	U	
REG	Vinyl Chloride	2	UG/L	U	U	
REG	Xylenes, Total	5	UG/L	U	U	

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-GP-07

314751

Field Sample Type: Grab

Matrix: Geo Probe Water

Collected: 01/21/1998

Sample Type	Petroleum Hydrocarbons	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Total Petroleum Hydrocarbons	0.223	MG/L	U	U	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5	UG/L	U	U	
REG	1,1,2,2-Tetrachloroethane	5	UG/L	U	U	
REG	1,1,2-Trichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloroethane	5	UG/L	U	U	
REG	1,2-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloropropane	5	UG/L	U	U	
REG	1,3-cis-Dichloropropene	5	UG/L	U	U	
REG	1,3-trans-Dichloropropene	5	UG/L	U	U	
REG	2-Butanone	10	UG/L	U	UJ	C05
REG	2-Hexanone	10	UG/L	U	U	
REG	4-Methyl-2-pentanone	10	UG/L	U	U	
REG	Acetone	10	UG/L	U	R	C01,C04
REG	Benzene	5	UG/L	U	U	
REG	Bromodichloromethane	5	UG/L	U	U	
REG	Bromoform	5	UG/L	U	U	
REG	Bromomethane	10	UG/L	U	U	
REG	Carbon Disulfide	5	UG/L	U	U	
REG	Carbon Tetrachloride	5	UG/L	U	U	
REG	Chlorobenzene	5	UG/L	U	U	
REG	Chloroethane	10	UG/L	U	U	
REG	Chloroform	5	UG/L	U	U	
REG	Chloromethane	10	UG/L	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-GP-07

314751

Field Sample Type: Grab

Matrix: Geo Probe Water

Collected: 01/21/1998

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Dibromochloromethane	5	UG/L	U	U	
REG	Ethylbenzene	5	UG/L	U	U	
REG	Methylene Chloride	5	UG/L	U	U	
REG	Styrene	5	UG/L	U	U	
REG	Tetrachloroethene	5	UG/L	U	U	
REG	Toluene	2	UG/L	JB	UJ	F01,F06
REG	Trichloroethene	5	UG/L	U	U	
REG	Vinyl Chloride	2	UG/L	U	U	
REG	Xylenes, Total	5	UG/L	U	U	

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-GP-08

314851

Field Sample Type: Grab

Matrix: Geo Probe Water

Collected: 01/21/1998

Sample Type	Petroleum Hydrocarbons	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Total Petroleum Hydrocarbons	0.121	MG/L	U	UJ	A05

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5	UG/L	U	U	
REG	1,1,2,2-Tetrachloroethane	5	UG/L	U	U	
REG	1,1,2-Trichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloroethane	5	UG/L	U	U	
REG	1,2-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloropropane	5	UG/L	U	U	
REG	1,3-cis-Dichloropropene	5	UG/L	U	U	
REG	1,3-trans-Dichloropropene	5	UG/L	U	U	
REG	2-Butanone	10	UG/L	U	UJ	C05
REG	2-Hexanone	10	UG/L	U	U	
REG	4-Methyl-2-pentanone	10	UG/L	U	U	
REG	Acetone	10	UG/L	U	R	C01,C04
REG	Benzene	5	UG/L	U	U	
REG	Bromodichloromethane	5	UG/L	U	U	
REG	Bromoform	5	UG/L	U	U	
REG	Bromomethane	10	UG/L	U	U	
REG	Carbon Disulfide	5	UG/L	U	U	
REG	Carbon Tetrachloride	5	UG/L	U	U	
REG	Chlorobenzene	5	UG/L	U	U	
REG	Chloroethane	10	UG/L	U	U	
REG	Chloroform	5	UG/L	U	U	
REG	Chloromethane	10	UG/L	U	U	
REG	Dibromochloromethane	5	UG/L	U	U	
REG	Ethylbenzene	5	UG/L	U	U	
REG	Methylene Chloride	5	UG/L	U	U	
REG	Styrene	5	UG/L	U	U	
REG	Tetrachloroethene	5	UG/L	U	U	
REG	Toluene	2	UG/L	JB	UJ	F01,F06
REG	Trichloroethene	5	UG/L	U	U	
REG	Vinyl Chloride	2	UG/L	U	U	
REG	Xylenes, Total	5	UG/L	U	U	

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-GP-09

314951

Field Sample Type: Grab

Matrix: Geo Probe Water

Collected: 01/21/1998

Sample Type	Petroleum Hydrocarbons	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Total Petroleum Hydrocarbons	0.303	MG/L	U	U	
Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5	UG/L	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-GP-09

314951

Field Sample Type: Grab

Matrix: Geo Probe Water

Collected: 01/21/1998

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,2,2-Tetrachloroethane	5	UG/L	U	U	
REG	1,1,2-Trichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloroethane	5	UG/L	U	U	
REG	1,2-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloropropane	5	UG/L	U	U	
REG	1,3-cis-Dichloropropene	5	UG/L	U	U	
REG	1,3-trans-Dichloropropene	5	UG/L	U	U	
REG	2-Butanone	10	UG/L	U	UJ	C05
REG	2-Hexanone	10	UG/L	U	U	
REG	4-Methyl-2-pentanone	10	UG/L	U	U	
REG	Acetone	10	UG/L	U	R	C01,C04
REG	Benzene	5	UG/L	U	U	
REG	Bromodichloromethane	5	UG/L	U	U	
REG	Bromoform	5	UG/L	U	U	
REG	Bromomethane	10	UG/L	U	U	
REG	Carbon Disulfide	5	UG/L	U	U	
REG	Carbon Tetrachloride	5	UG/L	U	U	
REG	Chlorobenzene	5	UG/L	U	U	
REG	Chloroethane	10	UG/L	U	U	
REG	Chloroform	5	UG/L	U	U	
REG	Chloromethane	10	UG/L	U	U	
REG	Dibromochloromethane	5	UG/L	U	U	
REG	Ethylbenzene	3.3	UG/L	J	J	
REG	Methylene Chloride	5	UG/L	U	U	
REG	Styrene	5	UG/L	U	U	
REG	Tetrachloroethene	5	UG/L	U	U	
REG	Toluene	2	UG/L	JB	UJ	F01,F06
REG	Trichloroethene	5	UG/L	U	U	
REG	Vinyl Chloride	2	UG/L	U	U	
REG	Xylenes, Total	18.4	UG/L		=	

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-MW-01

311111

0.0 - 1.0 FT

Field Sample Type: Grab

Matrix: Soil

Collected: 01/28/1998

Sample Type	Metals	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Arsenic	5.1	MG/KG		=	
REG	Barium	7	MG/KG	B	J	
REG	Cadmium	0.1	MG/KG	B	J	
REG	Chromium	1.5	MG/KG	B	J	
REG	Lead	2.6	MG/KG		=	
REG	Mercury	0.02	MG/KG	U	U	
REG	Selenium	0.16	MG/KG	B	U	F01,F06
REG	Silver	0.06	MG/KG	U	U	

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	363	UG/KG	U	U	
REG	1,2-Dichlorobenzene	363	UG/KG	U	U	
REG	1,3-Dichlorobenzene	363	UG/KG	U	U	
REG	1,4-Dichlorobenzene	363	UG/KG	U	U	
REG	2,2'-oxybis (1-chloropropane)	363	UG/KG	U	U	
REG	2,4,5-Trichlorophenol	907	UG/KG	U	U	
REG	2,4,6-Trichlorophenol	363	UG/KG	U	U	
REG	2,4-Dichlorophenol	363	UG/KG	U	U	
REG	2,4-Dimethylphenol	363	UG/KG	U	U	
REG	2,4-Dinitrophenol	907	UG/KG	U	U	
REG	2,4-Dinitrotoluene	363	UG/KG	U	U	
REG	2,6-Dinitrotoluene	363	UG/KG	U	U	
REG	2-Chloronaphthalene	363	UG/KG	U	U	
REG	2-Chlorophenol	363	UG/KG	U	U	
REG	2-Methylnaphthalene	363	UG/KG	U	UJ	C05
REG	2-Methylphenol	363	UG/KG	U	U	
REG	2-Nitroaniline	907	UG/KG	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-MW-01

311111

0.0 - 1.0 FT

Field Sample Type: Grab

Matrix: Soil

Collected: 01/28/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	2-Nitrophenol	363	UG/KG	U	U	C05
REG	3,3'-Dichlorobenzidine	725	UG/KG	U	U	
REG	3-Nitroaniline	907	UG/KG	U	UJ	
REG	4,6-Dinitro-o-Cresol	907	UG/KG	U	U	
REG	4-Bromophenyl-phenyl Ether	363	UG/KG	U	U	
REG	4-Chloroaniline	363	UG/KG	U	U	
REG	4-Chlorophenyl-phenylether	363	UG/KG	U	U	
REG	4-Methylphenol	363	UG/KG	U	U	
REG	4-Nitroaniline	907	UG/KG	U	U	
REG	4-Nitrophenol	907	UG/KG	U	U	
REG	4-chloro-3-methylphenol	363	UG/KG	U	U	C05
REG	Acenaphthene	363	UG/KG	U	U	
REG	Acenaphthylene	363	UG/KG	U	U	
REG	Anthracene	363	UG/KG	U	U	
REG	Benzo(a)anthracene	363	UG/KG	U	U	
REG	Benzo(a)pyrene	363	UG/KG	U	U	
REG	Benzo(b)fluoranthene	363	UG/KG	U	U	
REG	Benzo(g,h,i)perylene	363	UG/KG	U	U	
REG	Benzo(k)fluoranthene	363	UG/KG	U	U	
REG	Bis(2-chloroethoxy)methane	363	UG/KG	U	U	
REG	Bis(2-chloroethyl)ether	363	UG/KG	U	U	C05
REG	Bis(2-ethylhexyl)phthalate	363	UG/KG	U	U	
REG	Butyl Benzyl Phthalate	363	UG/KG	U	U	
REG	Carbazole	363	UG/KG	U	UJ	
REG	Chrysene	363	UG/KG	U	U	
REG	Di-n-butyl Phthalate	363	UG/KG	U	U	
REG	Di-n-octyl Phthalate	363	UG/KG	U	U	
REG	Dibenzo(a,h)anthracene	363	UG/KG	U	U	
REG	Dibenzofuran	363	UG/KG	U	U	
REG	Diethyl Phthalate	363	UG/KG	U	U	
REG	Dimethyl Phthalate	363	UG/KG	U	U	F07,F01
REG	Fluoranthene	363	UG/KG	U	U	
REG	Fluorene	363	UG/KG	U	U	
REG	Hexachlorobenzene	363	UG/KG	U	U	
REG	Hexachlorobutadiene	363	UG/KG	U	U	
REG	Hexachlorocyclopentadiene	363	UG/KG	U	U	
REG	Hexachloroethane	363	UG/KG	U	U	
REG	Indeno(1,2,3-cd)pyrene	363	UG/KG	U	U	
REG	Isophorone	363	UG/KG	U	U	
REG	N-Nitroso-di-n-propylamine	363	UG/KG	U	U	
REG	N-Nitrosodiphenylamine	363	UG/KG	U	U	F07,F01
REG	Naphthalene	363	UG/KG	U	U	
REG	Nitrobenzene	363	UG/KG	U	U	
REG	Pentachlorophenol	907	UG/KG	U	U	
REG	Phenanthrene	363	UG/KG	U	U	
REG	Phenol	363	UG/KG	U	U	
REG	Pyrene	363	UG/KG	U	U	
Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5.5	UG/KG	U	U	F07,F01
REG	1,1,2,2-Tetrachloroethane	5.5	UG/KG	U	U	
REG	1,1,2-Trichloroethane	5.5	UG/KG	U	U	
REG	1,1-Dichloroethane	5.5	UG/KG	U	U	
REG	1,1-Dichloroethene	5.5	UG/KG	U	U	
REG	1,2-Dichloroethane	5.5	UG/KG	U	U	
REG	1,2-Dichloroethene	5.5	UG/KG	U	U	
REG	1,2-Dichloropropane	5.5	UG/KG	U	U	
REG	1,3-cis-Dichloropropene	5.5	UG/KG	U	U	
REG	1,3-trans-Dichloropropene	5.5	UG/KG	U	U	
REG	2-Butanone	11	UG/KG	U	U	F07,F01
REG	2-Hexanone	11	UG/KG	U	U	
REG	4-Methyl-2-pentanone	11	UG/KG	U	U	
REG	Acetone	32.5	UG/KG	B	U	
REG	Benzene	5.5	UG/KG	U	U	
REG	Bromodichloromethane	5.5	UG/KG	U	U	
REG	Bromoform	5.5	UG/KG	U	U	
REG	Bromomethane	11	UG/KG	U	U	
REG	Carbon Disulfide	5.5	UG/KG	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-MW-01

311111 0.0 - 1.0 FT Field Sample Type: Grab Matrix: Soil Collected: 01/28/1998

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Carbon Tetrachloride	5.5	UG/KG	U	U	
REG	Chlorobenzene	5.5	UG/KG	U	U	
REG	Chloroethane	11	UG/KG	U	U	
REG	Chloroform	5.5	UG/KG	U	U	
REG	Chloromethane	11	UG/KG	U	U	
REG	Dibromochloromethane	5.5	UG/KG	U	U	
REG	Ethylbenzene	5.5	UG/KG	U	U	
REG	Methylene Chloride	6.1	UG/KG	B	UJ	F01,F07
REG	Styrene	5.5	UG/KG	U	U	
REG	Tetrachloroethene	5.5	UG/KG	U	U	
REG	Toluene	4	UG/KG	J	UJ	H04,F12
REG	Trichloroethene	5.5	UG/KG	U	U	
REG	Vinyl Chloride	11	UG/KG	U	U	
REG	Xylenes, Total	5.5	UG/KG	U	U	

311112 5.0 - 6.0 FT Field Sample Type: Grab Matrix: Soil Collected: 01/28/1998

Sample Type	Metals	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Arsenic	1.5	MG/KG		=	
REG	Barium	3.1	MG/KG	B	J	
REG	Cadmium	0.04	MG/KG	U	U	
REG	Chromium	0.76	MG/KG	B	J	
REG	Lead	1.3	MG/KG		=	
REG	Mercury	0.02	MG/KG	U	U	
REG	Selenium	0.2	MG/KG	B	U	F01,F06
REG	Silver	0.07	MG/KG	U	U	

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	383	UG/KG	U	U	
REG	1,2-Dichlorobenzene	383	UG/KG	U	U	
REG	1,3-Dichlorobenzene	383	UG/KG	U	U	
REG	1,4-Dichlorobenzene	383	UG/KG	U	U	
REG	2,2'-oxybis (1-chloropropane)	383	UG/KG	U	U	
REG	2,4,5-Trichlorophenol	958	UG/KG	U	U	
REG	2,4,6-Trichlorophenol	383	UG/KG	U	U	
REG	2,4-Dichlorophenol	383	UG/KG	U	U	
REG	2,4-Dimethylphenol	383	UG/KG	U	U	
REG	2,4-Dinitrophenol	958	UG/KG	U	U	
REG	2,4-Dinitrotoluene	383	UG/KG	U	U	
REG	2,6-Dinitrotoluene	383	UG/KG	U	U	
REG	2-Chloronaphthalene	383	UG/KG	U	U	
REG	2-Chlorophenol	383	UG/KG	U	U	
REG	2-Methylnaphthalene	383	UG/KG	U	UJ	C05
REG	2-Methylphenol	383	UG/KG	U	U	
REG	2-Nitroaniline	958	UG/KG	U	U	
REG	2-Nitrophenol	383	UG/KG	U	U	
REG	3,3'-Dichlorobenzidine	766	UG/KG	U	U	
REG	3-Nitroaniline	958	UG/KG	U	UJ	C05
REG	4,6-Dinitro-o-Cresol	958	UG/KG	U	U	
REG	4-Bromophenyl-phenyl Ether	383	UG/KG	U	U	
REG	4-Chloroaniline	383	UG/KG	U	U	
REG	4-Chlorophenyl-phenylether	383	UG/KG	U	U	
REG	4-Methylphenol	383	UG/KG	U	U	
REG	4-Nitroaniline	958	UG/KG	U	U	
REG	4-Nitrophenol	958	UG/KG	U	U	
REG	4-chloro-3-methylphenol	383	UG/KG	U	U	
REG	Acenaphthene	383	UG/KG	U	U	
REG	Acenaphthylene	383	UG/KG	U	U	
REG	Anthracene	383	UG/KG	U	U	
REG	Benzo(a)anthracene	383	UG/KG	U	U	
REG	Benzo(a)pyrene	383	UG/KG	U	U	
REG	Benzo(b)fluoranthene	383	UG/KG	U	U	
REG	Benzo(g,h,i)perylene	383	UG/KG	U	U	
REG	Benzo(k)fluoranthene	383	UG/KG	U	U	
REG	Bis(2-chloroethoxy)methane	383	UG/KG	U	U	
REG	Bis(2-chloroethyl)ether	383	UG/KG	U	U	
REG	Bis(2-ethylhexyl)phthalate	383	UG/KG	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-MW-01

311112 5.0 - 6.0 FT Field Sample Type: Grab Matrix: Soil Collected: 01/28/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Butyl Benzyl Phthalate	383	UG/KG	U	U	C05
REG	Carbazole	383	UG/KG	U	UJ	
REG	Chrysene	383	UG/KG	U	U	
REG	Di-n-butyl Phthalate	383	UG/KG	U	U	
REG	Di-n-octyl Phthalate	383	UG/KG	U	U	
REG	Dibenzo(a,h)anthracene	383	UG/KG	U	U	
REG	Dibenzofuran	383	UG/KG	U	U	
REG	Diethyl Phthalate	383	UG/KG	U	U	
REG	Dimethyl Phthalate	383	UG/KG	U	U	
REG	Fluoranthene	383	UG/KG	U	U	
REG	Fluorene	383	UG/KG	U	U	
REG	Hexachlorobenzene	383	UG/KG	U	U	
REG	Hexachlorobutadiene	383	UG/KG	U	U	
REG	Hexachlorocyclopentadiene	383	UG/KG	U	U	
REG	Hexachloroethane	383	UG/KG	U	U	
REG	Indeno(1,2,3-cd)pyrene	383	UG/KG	U	U	
REG	Isophorone	383	UG/KG	U	U	
REG	N-Nitroso-di-n-propylamine	383	UG/KG	U	U	
REG	N-Nitrosodiphenylamine	383	UG/KG	U	U	
REG	Naphthalene	383	UG/KG	U	U	
REG	Nitrobenzene	383	UG/KG	U	U	
REG	Pentachlorophenol	958	UG/KG	U	U	
REG	Phenanthrene	383	UG/KG	U	U	
REG	Phenol	383	UG/KG	U	U	
REG	Pyrene	383	UG/KG	U	U	

Sample Type	Total Organic Carbon (TOC)	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Total Organic Carbon	1820	UG/KG	=		

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5.7	UG/KG	U	U	F07,F01
REG	1,1,2,2-Tetrachloroethane	5.7	UG/KG	U	U	
REG	1,1,2-Trichloroethane	5.7	UG/KG	U	U	
REG	1,1-Dichloroethane	5.7	UG/KG	U	U	
REG	1,1-Dichloroethene	5.7	UG/KG	U	U	
REG	1,2-Dichloroethane	5.7	UG/KG	U	U	
REG	1,2-Dichloroethene	5.7	UG/KG	U	U	
REG	1,2-Dichloropropane	5.7	UG/KG	U	U	
REG	1,3-cis-Dichloropropene	5.7	UG/KG	U	U	
REG	1,3-trans-Dichloropropene	5.7	UG/KG	U	U	
REG	2-Butanone	11.5	UG/KG	U	U	
REG	2-Hexanone	11.5	UG/KG	U	U	
REG	4-Methyl-2-pentanone	11.5	UG/KG	U	U	
REG	Acetone	59.8	UG/KG	B	U	
REG	Benzene	5.7	UG/KG	U	U	
REG	Bromodichloromethane	5.7	UG/KG	U	U	
REG	Bromoform	5.7	UG/KG	U	U	
REG	Bromomethane	11.5	UG/KG	U	U	
REG	Carbon Disulfide	5.7	UG/KG	U	U	
REG	Carbon Tetrachloride	5.7	UG/KG	U	U	
REG	Chlorobenzene	5.7	UG/KG	U	U	F01,F07
REG	Chloroethane	11.5	UG/KG	U	U	
REG	Chloroform	5.7	UG/KG	U	U	
REG	Chloromethane	11.5	UG/KG	U	U	
REG	Dibromochloromethane	5.7	UG/KG	U	U	
REG	Ethylbenzene	5.7	UG/KG	U	U	
REG	Methylene Chloride	6.9	UG/KG	B	UJ	
REG	Styrene	5.7	UG/KG	U	U	
REG	Tetrachloroethene	5.7	UG/KG	U	U	
REG	Toluene	1.2	UG/KG	J	UJ	F12
REG	Trichloroethene	5.7	UG/KG	U	U	
REG	Vinyl Chloride	11.5	UG/KG	U	U	
REG	Xylenes, Total	5.7	UG/KG	U	U	

311121 0.0 - 1.0 FT Field Sample Type: Field Duplicate Matrix: Soil Collected: 01/28/1998

Ft. Stewart 16 SWMU

Sample Type	Metals	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Arsenic	1.8	MG/KG		=	
REG	Barium	3.6	MG/KG	B	J	
REG	Cadmium	0.06	MG/KG	B	J	
REG	Chromium	1.1	MG/KG	B	J	
REG	Lead	2.6	MG/KG		=	
REG	Mercury	0.02	MG/KG	U	U	
REG	Selenium	0.21	MG/KG	B	U	F01,F06
REG	Silver	0.07	MG/KG	U	U	

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	360	UG/KG	U	U	
REG	1,2-Dichlorobenzene	360	UG/KG	U	U	
REG	1,3-Dichlorobenzene	360	UG/KG	U	U	
REG	1,4-Dichlorobenzene	360	UG/KG	U	U	
REG	2,2'-oxybis (1-chloropropane)	360	UG/KG	U	U	
REG	2,4,5-Trichlorophenol	900	UG/KG	U	U	
REG	2,4,6-Trichlorophenol	360	UG/KG	U	U	
REG	2,4-Dichlorophenol	360	UG/KG	U	U	
REG	2,4-Dimethylphenol	360	UG/KG	U	U	
REG	2,4-Dinitrophenol	900	UG/KG	U	U	
REG	2,4-Dinitrotoluene	360	UG/KG	U	U	
REG	2,6-Dinitrotoluene	360	UG/KG	U	U	
REG	2-Chloronaphthalene	360	UG/KG	U	U	
REG	2-Chlorophenol	360	UG/KG	U	U	
REG	2-Methylnaphthalene	360	UG/KG	U	UJ	C05
REG	2-Methylphenol	360	UG/KG	U	U	
REG	2-Nitroaniline	900	UG/KG	U	U	
REG	2-Nitrophenol	360	UG/KG	U	U	
REG	3,3'-Dichlorobenzidine	720	UG/KG	U	U	
REG	3-Nitroaniline	900	UG/KG	U	UJ	C05
REG	4,6-Dinitro-o-Cresol	900	UG/KG	U	U	
REG	4-Bromophenyl-phenyl Ether	360	UG/KG	U	U	
REG	4-Chloroaniline	360	UG/KG	U	U	
REG	4-Chlorophenyl-phenylether	360	UG/KG	U	U	
REG	4-Methylphenol	360	UG/KG	U	U	
REG	4-Nitroaniline	900	UG/KG	U	U	
REG	4-Nitrophenol	900	UG/KG	U	U	
REG	4-chloro-3-methylphenol	360	UG/KG	U	U	
REG	Acenaphthene	360	UG/KG	U	U	
REG	Acenaphthylene	360	UG/KG	U	U	
REG	Anthracene	360	UG/KG	U	U	
REG	Benzo(a)anthracene	360	UG/KG	U	U	
REG	Benzo(a)pyrene	360	UG/KG	U	U	
REG	Benzo(b)fluoranthene	360	UG/KG	U	U	
REG	Benzo(g,h,i)perylene	360	UG/KG	U	U	
REG	Benzo(k)fluoranthene	360	UG/KG	U	U	
REG	Bis(2-chloroethoxy)methane	360	UG/KG	U	U	
REG	Bis(2-chloroethyl)ether	360	UG/KG	U	U	
REG	Bis(2-ethylhexyl)phthalate	360	UG/KG	U	U	
REG	Butyl Benzyl Phthalate	360	UG/KG	U	U	
REG	Carbazole	360	UG/KG	U	UJ	C05
REG	Chrysene	360	UG/KG	U	U	
REG	Di-n-butyl Phthalate	360	UG/KG	U	U	
REG	Di-n-octyl Phthalate	360	UG/KG	U	U	
REG	Dibenzo(a,h)anthracene	360	UG/KG	U	U	
REG	Dibenzofuran	360	UG/KG	U	U	
REG	Diethyl Phthalate	360	UG/KG	U	U	
REG	Dimethyl Phthalate	360	UG/KG	U	U	
REG	Fluoranthene	360	UG/KG	U	U	
REG	Fluorene	360	UG/KG	U	U	
REG	Hexachlorobenzene	360	UG/KG	U	U	
REG	Hexachlorobutadiene	360	UG/KG	U	U	
REG	Hexachlorocyclopentadiene	360	UG/KG	U	U	
REG	Hexachloroethane	360	UG/KG	U	U	
REG	Indeno(1,2,3-cd)pyrene	360	UG/KG	U	U	
REG	Isophorone	360	UG/KG	U	U	
REG	N-Nitroso-di-n-propylamine	360	UG/KG	U	U	
REG	N-Nitrosodiphenylamine	360	UG/KG	U	U	
REG	Naphthalene	360	UG/KG	U	U	
REG	Nitrobenzene	360	UG/KG	U	U	
REG	Pentachlorophenol	900	UG/KG	U	U	
REG	Phenanthrene	360	UG/KG	U	U	
REG	Phenol	360	UG/KG	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-MW-01

311121 0.0 - 1.0 FT Field Sample Type: Field Duplicate Matrix: Soil Collected: 01/28/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Pyrene	360	UG/KG	U	U	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5.4	UG/KG	U	U	
REG	1,1,2,2-Tetrachloroethane	5.4	UG/KG	U	U	
REG	1,1,2-Trichloroethane	5.4	UG/KG	U	U	
REG	1,1-Dichloroethane	5.4	UG/KG	U	U	
REG	1,1-Dichloroethene	5.4	UG/KG	U	U	
REG	1,2-Dichloroethane	5.4	UG/KG	U	U	
REG	1,2-Dichloroethene	5.4	UG/KG	U	U	
REG	1,2-Dichloropropane	5.4	UG/KG	U	U	
REG	1,3-cis-Dichloropropene	5.4	UG/KG	U	U	
REG	1,3-trans-Dichloropropene	5.4	UG/KG	U	U	
REG	2-Butanone	10.9	UG/KG	U	U	
REG	2-Hexanone	10.9	UG/KG	U	U	
REG	4-Methyl-2-pentanone	10.9	UG/KG	U	U	
REG	Acetone	51.2	UG/KG	B	U	F07,F01
REG	Benzene	5.4	UG/KG	U	U	
REG	Bromodichloromethane	5.4	UG/KG	U	U	
REG	Bromoform	5.4	UG/KG	U	U	
REG	Bromomethane	10.9	UG/KG	U	U	
REG	Carbon Disulfide	5.4	UG/KG	U	U	
REG	Carbon Tetrachloride	5.4	UG/KG	U	U	
REG	Chlorobenzene	5.4	UG/KG	U	U	
REG	Chloroethane	10.9	UG/KG	U	U	
REG	Chloroform	5.4	UG/KG	U	U	
REG	Chloromethane	10.9	UG/KG	U	U	
REG	Dibromochloromethane	5.4	UG/KG	U	U	
REG	Ethylbenzene	5.4	UG/KG	U	U	
REG	Methylene Chloride	9.4	UG/KG	B	UJ	F01,F07
REG	Styrene	5.4	UG/KG	U	U	
REG	Tetrachloroethene	5.4	UG/KG	U	U	
REG	Toluene	3.7	UG/KG	J	UJ	F12
REG	Trichloroethene	5.4	UG/KG	U	U	
REG	Vinyl Chloride	10.9	UG/KG	U	U	
REG	Xylenes, Total	5.4	UG/KG	U	U	

314111 Field Sample Type: Grab Matrix: Groundwater Collected: 02/24/1998

Sample Type	Common Anions	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Sulfate	32.9	MG/L	=		F01,F08

Sample Type	Metals	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Arsenic	3	UG/L	U	U	
REG	Barium	57.4	UG/L	B	J	
REG	Cadmium	0.21	UG/L	U	U	
REG	Chromium	1.1	UG/L	B	J	
REG	Lead	0.96	UG/L	U	U	
REG	Mercury	0.1	UG/L	U	U	
REG	Selenium	2.5	UG/L	U	U	
REG	Silver	0.86	UG/L	U	U	

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	10.4	UG/L	U	U	
REG	1,2-Dichlorobenzene	10.4	UG/L	U	U	
REG	1,3-Dichlorobenzene	10.4	UG/L	U	U	
REG	1,4-Dichlorobenzene	10.4	UG/L	U	U	
REG	2,2'-oxybis (1-chloropropane)	10.4	UG/L	U	U	
REG	2,4,5-Trichlorophenol	26	UG/L	U	R	G04
REG	2,4,6-Trichlorophenol	10.4	UG/L	U	R	G04
REG	2,4-Dichlorophenol	10.4	UG/L	U	R	G04
REG	2,4-Dimethylphenol	10.4	UG/L	U	R	G04
REG	2,4-Dinitrophenol	26	UG/L	U	R	G04
REG	2,4-Dinitrotoluene	10.4	UG/L	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station: 31-MW-01

314111

Field Sample Type: Grab

Matrix: Groundwater

Collected: 02/24/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	2,6-Dinitrotoluene	10.4	UG/L	U	U	
REG	2-Chloronaphthalene	10.4	UG/L	U	U	
REG	2-Chlorophenol	10.4	UG/L	U	R	G04
REG	2-Methylnaphthalene	10.4	UG/L	U	UJ	C05
REG	2-Methylphenol	10.4	UG/L	U	R	G04
REG	2-Nitroaniline	26	UG/L	U	U	
REG	2-Nitrophenol	10.4	UG/L	U	R	G04
REG	3,3'-Dichlorobenzidine	20.8	UG/L	U	UJ	C05
REG	3-Nitroaniline	26	UG/L	U	U	
REG	4,6-Dinitro-o-Cresol	26	UG/L	U	R	G04
REG	4-Bromophenyl-phenyl Ether	10.4	UG/L	U	U	
REG	4-Chloroaniline	10.4	UG/L	U	U	
REG	4-Chlorophenyl-phenylether	10.4	UG/L	U	U	
REG	4-Methylphenol	10.4	UG/L	U	R	G04
REG	4-Nitroaniline	26	UG/L	U	U	
REG	4-Nitrophenol	26	UG/L	U	R	G04
REG	4-chloro-3-methylphenol	10.4	UG/L	U	R	G04
REG	Acenaphthene	10.4	UG/L	U	U	
REG	Acenaphthylene	10.4	UG/L	U	U	
REG	Anthracene	10.4	UG/L	U	U	
REG	Benzo(a)anthracene	10.4	UG/L	U	U	
REG	Benzo(a)pyrene	10.4	UG/L	U	U	
REG	Benzo(b)fluoranthene	10.4	UG/L	U	U	
REG	Benzo(g,h,i)perylene	10.4	UG/L	U	U	
REG	Benzo(k)fluoranthene	10.4	UG/L	U	U	
REG	Bis(2-chloroethoxy)methane	10.4	UG/L	U	U	
REG	Bis(2-chloroethyl)ether	10.4	UG/L	U	U	
REG	Bis(2-ethylhexyl)phthalate	10.4	UG/L	U	UJ	C05
REG	Butyl Benzyl Phthalate	10.4	UG/L	U	U	
REG	Carbazole	10.4	UG/L	U	UJ	C05
REG	Chrysene	10.4	UG/L	U	U	
REG	Di-n-butyl Phthalate	10.4	UG/L	U	U	
REG	Di-n-octyl Phthalate	10.4	UG/L	U	U	
REG	Dibenzo(a,h)anthracene	10.4	UG/L	U	U	
REG	Dibenzofuran	10.4	UG/L	U	U	
REG	Diethyl Phthalate	10.4	UG/L	U	U	
REG	Dimethyl Phthalate	10.4	UG/L	U	U	
REG	Fluoranthene	10.4	UG/L	U	U	
REG	Fluorene	10.4	UG/L	U	U	
REG	Hexachlorobenzene	10.4	UG/L	U	U	
REG	Hexachlorobutadiene	10.4	UG/L	U	U	
REG	Hexachlorocyclopentadiene	10.4	UG/L	U	U	
REG	Hexachloroethane	10.4	UG/L	U	U	
REG	Indeno(1,2,3-cd)pyrene	10.4	UG/L	U	U	
REG	Isophorone	10.4	UG/L	U	U	
REG	N-Nitroso-di-n-propylamine	10.4	UG/L	U	U	
REG	N-Nitrosodiphenylamine	10.4	UG/L	U	U	
REG	Naphthalene	10.4	UG/L	U	U	
REG	Nitrobenzene	10.4	UG/L	U	U	
REG	Pentachlorophenol	26	UG/L	U	R	G04
REG	Phenanthrene	10.4	UG/L	U	U	
REG	Phenol	10.4	UG/L	U	R	G04
REG	Pyrene	10.4	UG/L	U	U	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5	UG/L	U	U	
REG	1,1,2,2-Tetrachloroethane	5	UG/L	U	U	
REG	1,1,2-Trichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloroethane	5	UG/L	U	U	
REG	1,2-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloropropane	5	UG/L	U	U	
REG	1,3-cis-Dichloropropene	5	UG/L	U	U	
REG	1,3-trans-Dichloropropene	5	UG/L	U	U	
REG	2-Butanone	10	UG/L	U	R	C01,C04
REG	2-Hexanone	10	UG/L	U	U	
REG	4-Methyl-2-pentanone	10	UG/L	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station: 31-MW-01

314111

Field Sample Type: Grab

Matrix: Groundwater

Collected: 02/24/1998

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Acetone	1.7	UG/L	J	UJ	C02,C05,C04,F12
REG	Benzene	5	UG/L	U	U	
REG	Bromodichloromethane	5	UG/L	U	U	
REG	Bromoform	5	UG/L	U	U	
REG	Bromomethane	10	UG/L	U	U	
REG	Carbon Disulfide	5	UG/L	U	U	
REG	Carbon Tetrachloride	5	UG/L	U	U	
REG	Chlorobenzene	5	UG/L	U	U	
REG	Chloroethane	10	UG/L	U	U	
REG	Chloroform	5	UG/L	U	U	
REG	Chloromethane	10	UG/L	U	U	
REG	Dibromochloromethane	5	UG/L	U	U	
REG	Ethylbenzene	0.34	UG/L	J	UJ	
REG	Methylene Chloride	5	UG/L	J	UJ	
REG	Styrene	5	UG/L	U	U	N03
REG	Tetrachloroethene	5	UG/L	U	U	F01,F06
REG	Toluene	0.35	UG/L	J	UJ	F12
REG	Trichloroethene	5	UG/L	U	U	
REG	Vinyl Chloride	2	UG/L	U	U	
REG	Xylenes, Total	0.71	UG/L	J	UJ	N03

314112

Field Sample Type: Grab

Matrix: Groundwater

Collected: 07/09/1999

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	10.6	UG/L	U	U	P01
REG	1,2-Dichlorobenzene	10.6	UG/L	U	U	
REG	1,3-Dichlorobenzene	10.6	UG/L	U	U	
REG	1,4-Dichlorobenzene	10.6	UG/L	U	U	
REG	2,2'-oxybis (1-chloropropane)	10.6	UG/L	U	U	
REG	2,4,5-Trichlorophenol	10.6	UG/L	U	U	
REG	2,4,6-Trichlorophenol	10.6	UG/L	U	U	
REG	2,4-Dichlorophenol	10.6	UG/L	U	U	
REG	2,4-Dimethylphenol	10.6	UG/L	U	U	
REG	2,4-Dinitrophenol	21.3	UG/L	U	U	
REG	2,4-Dinitrotoluene	10.6	UG/L	U	U	
REG	2,6-Dinitrotoluene	10.6	UG/L	U	U	
REG	2-Chloronaphthalene	10.6	UG/L	U	U	
REG	2-Chlorophenol	10.6	UG/L	U	U	
REG	2-Methylnaphthalene	10.6	UG/L	U	U	
REG	2-Methylphenol	10.6	UG/L	U	U	
REG	2-Nitroaniline	10.6	UG/L	U	U	
REG	2-Nitrophenol	10.6	UG/L	U	U	
REG	3,3'-Dichlorobenzidine	53.2	UG/L	U	U	
REG	3-Nitroaniline	10.6	UG/L	U	U	
REG	4,6-Dinitro-o-Cresol	10.6	UG/L	U	U	
REG	4-Bromophenyl-phenyl Ether	10.6	UG/L	U	U	
REG	4-Chloroaniline	21.3	UG/L	U	U	
REG	4-Chlorophenyl-phenylether	10.6	UG/L	U	U	
REG	4-Methylphenol	10.6	UG/L	U	U	
REG	4-Nitroaniline	10.6	UG/L	U	U	
REG	4-Nitrophenol	21.3	UG/L	U	UJ	
REG	4-chloro-3-methylphenol	10.6	UG/L	U	U	
REG	Acenaphthene	10.6	UG/L	U	U	
REG	Acenaphthylene	10.6	UG/L	U	U	
REG	Anthracene	10.6	UG/L	U	U	
REG	Benzo(a)anthracene	10.6	UG/L	U	U	
REG	Benzo(a)pyrene	10.6	UG/L	U	U	
REG	Benzo(b)fluoranthene	10.6	UG/L	U	U	
REG	Benzo(g,h,i)perylene	10.6	UG/L	U	U	
REG	Benzo(k)fluoranthene	10.6	UG/L	U	U	
REG	Bis(2-chloroethoxy)methane	10.6	UG/L	U	U	
REG	Bis(2-chloroethyl)ether	10.6	UG/L	U	U	
REG	Bis(2-ethylhexyl)phthalate	10.6	UG/L	U	U	
REG	Butyl Benzyl Phthalate	10.6	UG/L	U	U	
REG	Carbazole	10.6	UG/L	U	U	
REG	Chrysene	10.6	UG/L	U	U	
REG	Di-n-butyl Phthalate	10.6	UG/L	U	U	
REG	Di-n-octyl Phthalate	10.6	UG/L	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-MW-01

314112

Field Sample Type: Grab

Matrix: Groundwater

Collected: 07/09/1999

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Dibenzo(a,h)anthracene	10.6	UG/L	U	U	
REG	Dibenzofuran	10.6	UG/L	U	U	
REG	Diethyl Phthalate	10.6	UG/L	U	U	
REG	Dimethyl Phthalate	10.6	UG/L	U	U	
REG	Fluoranthene	10.6	UG/L	U	U	
REG	Fluorene	10.6	UG/L	U	U	
REG	Hexachlorobenzene	10.6	UG/L	U	U	
REG	Hexachlorobutadiene	10.6	UG/L	U	U	
REG	Hexachlorocyclopentadiene	10.6	UG/L	U	U	
REG	Hexachloroethane	10.6	UG/L	U	U	
REG	Indeno(1,2,3-cd)pyrene	10.6	UG/L	U	U	
REG	Isophorone	10.6	UG/L	U	U	
REG	N-Nitroso-di-n-propylamine	10.6	UG/L	U	U	
REG	Naphthalene	10.6	UG/L	U	U	
REG	Nitrobenzene	10.6	UG/L	U	U	
REG	Pentachlorophenol	10.6	UG/L	U	U	
REG	Phenanthrene	10.6	UG/L	U	U	
REG	Phenol	10.6	UG/L	U	U	
REG	Pyrene	10.6	UG/L	U	U	

314121

Field Sample Type: Field Duplicate

Matrix: Groundwater

Collected: 02/24/1998

Sample Type	Metals	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Arsenic	3	UG/L	U	U	
REG	Barium	56.2	UG/L	B	J	
REG	Cadmium	0.21	UG/L	U	U	
REG	Chromium	1.4	UG/L	B	J	
REG	Lead	0.96	UG/L	U	U	
REG	Mercury	0.1	UG/L	U	U	
REG	Selenium	2.5	UG/L	U	U	
REG	Silver	0.86	UG/L	U	U	

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	10.3	UG/L	U	U	
REG	1,2-Dichlorobenzene	10.3	UG/L	U	U	
REG	1,3-Dichlorobenzene	10.3	UG/L	U	U	
REG	1,4-Dichlorobenzene	10.3	UG/L	U	U	
REG	2,2'-oxybis (1-chloropropane)	10.3	UG/L	U	U	
REG	2,4,5-Trichlorophenol	25.8	UG/L	U	U	
REG	2,4,6-Trichlorophenol	10.3	UG/L	U	U	
REG	2,4-Dichlorophenol	10.3	UG/L	U	U	
REG	2,4-Dimethylphenol	10.3	UG/L	U	U	
REG	2,4-Dinitrophenol	25.8	UG/L	U	U	
REG	2,4-Dinitrotoluene	10.3	UG/L	U	U	
REG	2,6-Dinitrotoluene	10.3	UG/L	U	U	
REG	2-Chloronaphthalene	10.3	UG/L	U	U	
REG	2-Chlorophenol	10.3	UG/L	U	U	
REG	2-Methylnaphthalene	10.3	UG/L	U	UJ	C05
REG	2-Methylphenol	10.3	UG/L	U	U	
REG	2-Nitroaniline	25.8	UG/L	U	U	
REG	2-Nitrophenol	10.3	UG/L	U	U	
REG	3,3'-Dichlorobenzidine	20.6	UG/L	U	U	
REG	3-Nitroaniline	25.8	UG/L	U	U	
REG	4,6-Dinitro-o-Cresol	25.8	UG/L	U	U	
REG	4-Bromophenyl-phenyl Ether	10.3	UG/L	U	U	
REG	4-Chloroaniline	10.3	UG/L	U	U	
REG	4-Chlorophenyl-phenylether	10.3	UG/L	U	U	
REG	4-Methylphenol	10.3	UG/L	U	U	
REG	4-Nitroaniline	25.8	UG/L	U	U	
REG	4-Nitrophenol	25.8	UG/L	U	U	
REG	4-chloro-3-methylphenol	10.3	UG/L	U	U	
REG	Acenaphthene	10.3	UG/L	U	U	
REG	Acenaphthylene	10.3	UG/L	U	U	
REG	Anthracene	10.3	UG/L	U	U	
REG	Benzo(a)anthracene	10.3	UG/L	U	U	
REG	Benzo(a)pyrene	10.3	UG/L	U	U	
REG	Benzo(b)fluoranthene	10.3	UG/L	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station: 31-MW-01

314121

Field Sample Type: Field Duplicate

Matrix: Groundwater

Collected: 02/24/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Benzo(g,h,i)perylene	10.3	UG/L	U	U	
REG	Benzo(k)fluoranthene	10.3	UG/L	U	U	
REG	Bis(2-chloroethoxy)methane	10.3	UG/L	U	U	
REG	Bis(2-chloroethyl)ether	10.3	UG/L	U	U	
REG	Bis(2-ethylhexyl)phthalate	10.3	UG/L	U	U	
REG	Butyl Benzyl Phthalate	10.3	UG/L	U	U	
REG	Carbazole	10.3	UG/L	U	U	
REG	Chrysene	10.3	UG/L	U	U	
REG	Di-n-butyl Phthalate	10.3	UG/L	U	U	
REG	Di-n-octyl Phthalate	10.3	UG/L	U	U	
REG	Dibenzo(a,h)anthracene	10.3	UG/L	U	U	
REG	Dibenzofuran	10.3	UG/L	U	U	
REG	Diethyl Phthalate	10.3	UG/L	U	U	
REG	Dimethyl Phthalate	10.3	UG/L	U	U	
REG	Fluoranthene	10.3	UG/L	U	U	
REG	Fluorene	10.3	UG/L	U	U	
REG	Hexachlorobenzene	10.3	UG/L	U	U	
REG	Hexachlorobutadiene	10.3	UG/L	U	U	
REG	Hexachlorocyclopentadiene	10.3	UG/L	U	U	
REG	Hexachloroethane	10.3	UG/L	U	U	
REG	Indeno(1,2,3-cd)pyrene	10.3	UG/L	U	U	
REG	Isophorone	10.3	UG/L	U	U	
REG	N-Nitroso-di-n-propylamine	10.3	UG/L	U	U	
REG	N-Nitrosodiphenylamine	10.3	UG/L	U	U	
REG	Naphthalene	10.3	UG/L	U	U	
REG	Nitrobenzene	10.3	UG/L	U	U	
REG	Pentachlorophenol	25.8	UG/L	U	U	
REG	Phenanthrene	10.3	UG/L	U	U	
REG	Phenol	10.3	UG/L	U	U	
REG	Pyrene	10.3	UG/L	U	U	
Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5	UG/L	U	U	
REG	1,1,2,2-Tetrachloroethane	5	UG/L	U	U	
REG	1,1,2-Trichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloroethane	5	UG/L	U	U	
REG	1,2-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloropropane	5	UG/L	U	U	
REG	1,3-cis-Dichloropropene	5	UG/L	U	U	
REG	1,3-trans-Dichloropropene	5	UG/L	U	U	
REG	2-Butanone	10	UG/L	U	R	C01,C04
REG	2-Hexanone	10	UG/L	U	U	
REG	4-Methyl-2-pentanone	10	UG/L	U	U	
REG	Acetone	10	UG/L	J	UJ	C02,F04,F06
REG	Benzene	5	UG/L	U	U	
REG	Bromodichloromethane	5	UG/L	U	U	
REG	Bromoform	5	UG/L	U	U	
REG	Bromomethane	10	UG/L	U	U	
REG	Carbon Disulfide	5	UG/L	U	U	
REG	Carbon Tetrachloride	5	UG/L	U	U	
REG	Chlorobenzene	5	UG/L	U	U	
REG	Chloroethane	10	UG/L	U	U	
REG	Chloroform	5	UG/L	U	U	
REG	Chloromethane	10	UG/L	U	U	
REG	Dibromochloromethane	5	UG/L	U	U	
REG	Ethylbenzene	5	UG/L	U	U	
REG	Methylene Chloride	5	UG/L	J	UJ	F04,F06
REG	Styrene	5	UG/L	U	U	
REG	Tetrachloroethene	5	UG/L	U	U	
REG	Toluene	2	UG/L	U	U	
REG	Trichloroethene	5	UG/L	U	U	
REG	Vinyl Chloride	2	UG/L	U	U	
REG	Xylenes, Total	5	UG/L	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-MW-02

311211

0.0 - 1.0 FT

Field Sample Type: Grab

Matrix: Soil

Collected: 01/28/1998

Sample Type	Metals	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Arsenic	0.34	MG/KG	U	U	
REG	Barium	7.8	MG/KG	B	J	
REG	Cadmium	0.07	MG/KG	B	J	
REG	Chromium	2.3	MG/KG		=	
REG	Lead	2.6	MG/KG		=	
REG	Mercury	0.02	MG/KG	B	J	
REG	Selenium	0.15	MG/KG	U	U	
REG	Silver	0.07	MG/KG	U	U	

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	363	UG/KG	U	U	
REG	1,2-Dichlorobenzene	363	UG/KG	U	U	
REG	1,3-Dichlorobenzene	363	UG/KG	U	U	
REG	1,4-Dichlorobenzene	363	UG/KG	U	U	
REG	2,2'-oxybis (1-chloropropane)	363	UG/KG	U	U	
REG	2,4,5-Trichlorophenol	907	UG/KG	U	U	
REG	2,4,6-Trichlorophenol	363	UG/KG	U	U	
REG	2,4-Dichlorophenol	363	UG/KG	U	U	
REG	2,4-Dimethylphenol	363	UG/KG	U	U	
REG	2,4-Dinitrophenol	907	UG/KG	U	U	
REG	2,4-Dinitrotoluene	363	UG/KG	U	U	
REG	2,6-Dinitrotoluene	363	UG/KG	U	U	
REG	2-Chloronaphthalene	363	UG/KG	U	U	
REG	2-Chlorophenol	363	UG/KG	U	U	
REG	2-Methylnaphthalene	363	UG/KG	U	UJ	C05
REG	2-Methylphenol	363	UG/KG	U	U	
REG	2-Nitroaniline	907	UG/KG	U	U	
REG	2-Nitrophenol	363	UG/KG	U	U	
REG	3,3'-Dichlorobenzidine	725	UG/KG	U	U	
REG	3-Nitroaniline	907	UG/KG	U	UJ	C05
REG	4,6-Dinitro-o-Cresol	907	UG/KG	U	U	
REG	4-Bromophenyl-phenyl Ether	363	UG/KG	U	U	
REG	4-Chloroaniline	363	UG/KG	U	U	
REG	4-Chlorophenyl-phenylether	363	UG/KG	U	U	
REG	4-Methylphenol	363	UG/KG	U	U	
REG	4-Nitroaniline	907	UG/KG	U	U	
REG	4-Nitrophenol	907	UG/KG	U	U	
REG	4-chloro-3-methylphenol	363	UG/KG	U	U	
REG	Acenaphthene	363	UG/KG	U	U	
REG	Acenaphthylene	363	UG/KG	U	U	
REG	Anthracene	363	UG/KG	U	U	
REG	Benzo(a)anthracene	363	UG/KG	U	U	
REG	Benzo(a)pyrene	363	UG/KG	U	U	
REG	Benzo(b)fluoranthene	363	UG/KG	U	U	
REG	Benzo(g,h,i)perylene	363	UG/KG	U	U	
REG	Benzo(k)fluoranthene	363	UG/KG	U	U	
REG	Bis(2-chloroethoxy)methane	363	UG/KG	U	U	
REG	Bis(2-chloroethyl)ether	363	UG/KG	U	U	
REG	Bis(2-ethylhexyl)phthalate	363	UG/KG	U	U	
REG	Butyl Benzyl Phthalate	363	UG/KG	U	U	
REG	Carbazole	363	UG/KG	U	UJ	C05
REG	Chrysene	363	UG/KG	U	U	
REG	Di-n-butyl Phthalate	363	UG/KG	U	U	
REG	Di-n-octyl Phthalate	363	UG/KG	U	U	
REG	Dibenzo(a,h)anthracene	363	UG/KG	U	U	
REG	Dibenzofuran	363	UG/KG	U	U	
REG	Diethyl Phthalate	363	UG/KG	U	U	
REG	Dimethyl Phthalate	363	UG/KG	U	U	
REG	Fluoranthene	363	UG/KG	U	U	
REG	Fluorene	363	UG/KG	U	U	
REG	Hexachlorobenzene	363	UG/KG	U	U	
REG	Hexachlorobutadiene	363	UG/KG	U	U	
REG	Hexachlorocyclopentadiene	363	UG/KG	U	U	
REG	Hexachloroethane	363	UG/KG	U	U	
REG	Indeno(1,2,3-cd)pyrene	363	UG/KG	U	U	
REG	Isophorone	363	UG/KG	U	U	
REG	N-Nitroso-di-n-propylamine	363	UG/KG	U	U	
REG	N-Nitrosodiphenylamine	363	UG/KG	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-MW-02

311211 0.0 - 1.0 FT Field Sample Type: Grab Matrix: Soil Collected: 01/28/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Naphthalene	363	UG/KG	U	U	
REG	Nitrobenzene	363	UG/KG	U	U	
REG	Pentachlorophenol	907	UG/KG	U	U	
REG	Phenanthrene	363	UG/KG	U	U	
REG	Phenol	363	UG/KG	U	U	
REG	Pyrene	363	UG/KG	U	U	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5.5	UG/KG	U	U	
REG	1,1,2,2-Tetrachloroethane	5.5	UG/KG	U	U	
REG	1,1,2-Trichloroethane	5.5	UG/KG	U	U	
REG	1,1-Dichloroethane	5.5	UG/KG	U	U	
REG	1,1-Dichloroethene	5.5	UG/KG	U	U	
REG	1,2-Dichloroethane	5.5	UG/KG	U	U	
REG	1,2-Dichloroethene	5.5	UG/KG	U	U	
REG	1,2-Dichloropropane	5.5	UG/KG	U	U	
REG	1,3-cis-Dichloropropene	5.5	UG/KG	U	U	
REG	1,3-trans-Dichloropropene	5.5	UG/KG	U	U	
REG	2-Butanone	11	UG/KG	U	U	
REG	2-Hexanone	11	UG/KG	U	U	
REG	4-Methyl-2-pentanone	11	UG/KG	U	U	
REG	Acetone	40.4	UG/KG	B	U	F07,F01
REG	Benzene	5.5	UG/KG	U	U	
REG	Bromodichloromethane	5.5	UG/KG	U	U	
REG	Bromoform	5.5	UG/KG	U	U	
REG	Bromomethane	11	UG/KG	U	U	
REG	Carbon Disulfide	5.5	UG/KG	U	U	
REG	Carbon Tetrachloride	5.5	UG/KG	U	U	
REG	Chlorobenzene	5.5	UG/KG	U	U	
REG	Chloroethane	11	UG/KG	U	U	
REG	Chloroform	5.5	UG/KG	U	U	
REG	Chloromethane	11	UG/KG	U	U	
REG	Dibromochloromethane	5.5	UG/KG	U	U	
REG	Ethylbenzene	5.5	UG/KG	U	U	
REG	Methylene Chloride	6.6	UG/KG	B	UJ	F01,F07
REG	Styrene	5.5	UG/KG	U	U	
REG	Tetrachloroethene	5.5	UG/KG	U	U	
REG	Toluene	2	UG/KG	J	UJ	F12
REG	Trichloroethene	5.5	UG/KG	U	U	
REG	Vinyl Chloride	11	UG/KG	U	U	
REG	Xylenes, Total	5.5	UG/KG	U	U	

311212 2.5 - 5.0 FT Field Sample Type: Grab Matrix: Soil Collected: 01/28/1998

Sample Type	Metals	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Arsenic	0.35	MG/KG	U	U	
REG	Barium	2.2	MG/KG	B	J	
REG	Cadmium	0.04	MG/KG	U	U	
REG	Chromium	0.8	MG/KG	B	J	
REG	Lead	1.5	MG/KG		=	
REG	Mercury	0.02	MG/KG	U	U	
REG	Selenium	0.15	MG/KG	U	U	
REG	Silver	0.07	MG/KG	U	U	

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	375	UG/KG	U	U	
REG	1,2-Dichlorobenzene	375	UG/KG	U	U	
REG	1,3-Dichlorobenzene	375	UG/KG	U	U	
REG	1,4-Dichlorobenzene	375	UG/KG	U	U	
REG	2,2'-oxybis (1-chloropropane)	375	UG/KG	U	U	
REG	2,4,5-Trichlorophenol	938	UG/KG	U	U	
REG	2,4,6-Trichlorophenol	375	UG/KG	U	U	
REG	2,4-Dichlorophenol	375	UG/KG	U	U	
REG	2,4-Dimethylphenol	375	UG/KG	U	U	
REG	2,4-Dinitrophenol	938	UG/KG	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-MW-02

311212 2.5 - 5.0 FT Field Sample Type: Grab Matrix: Soil Collected: 01/28/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	2,4-Dinitrotoluene	375	UG/KG	U	U	C05
REG	2,6-Dinitrotoluene	375	UG/KG	U	U	
REG	2-Chloronaphthalene	375	UG/KG	U	U	
REG	2-Chlorophenol	375	UG/KG	U	U	
REG	2-Methylnaphthalene	375	UG/KG	U	UJ	
REG	2-Methylphenol	375	UG/KG	U	U	
REG	2-Nitroaniline	938	UG/KG	U	U	
REG	2-Nitrophenol	375	UG/KG	U	U	
REG	3,3'-Dichlorobenzidine	750	UG/KG	U	U	
REG	3-Nitroaniline	938	UG/KG	U	U	
REG	4,6-Dinitro-o-Cresol	938	UG/KG	U	U	
REG	4-Bromophenyl-phenyl Ether	375	UG/KG	U	U	
REG	4-Chloroaniline	375	UG/KG	U	U	
REG	4-Chlorophenyl-phenylether	375	UG/KG	U	U	
REG	4-Methylphenol	375	UG/KG	U	U	
REG	4-Nitroaniline	938	UG/KG	U	U	
REG	4-Nitrophenol	938	UG/KG	U	U	
REG	4-chloro-3-methylphenol	375	UG/KG	U	U	
REG	Acenaphthene	375	UG/KG	U	U	
REG	Acenaphthylene	375	UG/KG	U	U	
REG	Anthracene	375	UG/KG	U	U	
REG	Benzo(a)anthracene	375	UG/KG	U	U	
REG	Benzo(a)pyrene	375	UG/KG	U	U	
REG	Benzo(b)fluoranthene	375	UG/KG	U	U	
REG	Benzo(g,h,i)perylene	375	UG/KG	U	U	
REG	Benzo(k)fluoranthene	375	UG/KG	U	U	
REG	Bis(2-chloroethoxy)methane	375	UG/KG	U	U	
REG	Bis(2-chloroethyl)ether	375	UG/KG	U	U	
REG	Bis(2-ethylhexyl)phthalate	375	UG/KG	U	U	
REG	Butyl Benzyl Phthalate	375	UG/KG	U	U	
REG	Carbazole	375	UG/KG	U	U	
REG	Chrysene	375	UG/KG	U	U	
REG	Di-n-butyl Phthalate	375	UG/KG	U	U	
REG	Di-n-octyl Phthalate	375	UG/KG	U	U	
REG	Dibenzo(a,h)anthracene	375	UG/KG	U	U	
REG	Dibenzofuran	375	UG/KG	U	U	
REG	Diethyl Phthalate	375	UG/KG	U	U	
REG	Dimethyl Phthalate	375	UG/KG	U	U	
REG	Fluoranthene	375	UG/KG	U	U	
REG	Fluorene	375	UG/KG	U	U	
REG	Hexachlorobenzene	375	UG/KG	U	U	
REG	Hexachlorobutadiene	375	UG/KG	U	U	
REG	Hexachlorocyclopentadiene	375	UG/KG	U	U	
REG	Hexachloroethane	375	UG/KG	U	U	
REG	Indeno(1,2,3-cd)pyrene	375	UG/KG	U	U	
REG	Isophorone	375	UG/KG	U	U	
REG	N-Nitroso-di-n-propylamine	375	UG/KG	U	U	
REG	N-Nitrosodiphenylamine	375	UG/KG	U	U	
REG	Naphthalene	375	UG/KG	U	U	
REG	Nitrobenzene	375	UG/KG	U	U	
REG	Pentachlorophenol	938	UG/KG	U	U	
REG	Phenanthrene	375	UG/KG	U	U	
REG	Phenol	375	UG/KG	U	U	
REG	Pyrene	375	UG/KG	U	U	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5.7	UG/KG	U	U	
REG	1,1,2,2-Tetrachloroethane	5.7	UG/KG	U	U	
REG	1,1,2-Trichloroethane	5.7	UG/KG	U	U	
REG	1,1-Dichloroethane	5.7	UG/KG	U	U	
REG	1,1-Dichloroethene	5.7	UG/KG	U	U	
REG	1,2-Dichloroethane	5.7	UG/KG	U	U	
REG	1,2-Dichloroethene	5.7	UG/KG	U	U	
REG	1,2-Dichloropropane	5.7	UG/KG	U	U	
REG	1,3-cis-Dichloropropene	5.7	UG/KG	U	U	
REG	1,3-trans-Dichloropropene	5.7	UG/KG	U	U	
REG	2-Butanone	11.4	UG/KG	U	U	
REG	2-Hexanone	11.4	UG/KG	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-MW-02

311212 2.5 - 5.0 FT Field Sample Type: Grab Matrix: Soil Collected: 01/28/1998

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	4-Methyl-2-pentanone	11.4	UG/KG	U	U	F07,F01
REG	Acetone	48.7	UG/KG	B	U	
REG	Benzene	5.7	UG/KG	U	U	
REG	Bromodichloromethane	5.7	UG/KG	U	U	
REG	Bromoform	5.7	UG/KG	U	U	
REG	Bromomethane	11.4	UG/KG	U	U	
REG	Carbon Disulfide	5.7	UG/KG	U	U	
REG	Carbon Tetrachloride	5.7	UG/KG	U	U	
REG	Chlorobenzene	5.7	UG/KG	U	U	
REG	Chloroethane	11.4	UG/KG	U	U	
REG	Chloroform	5.7	UG/KG	U	U	F01,F07
REG	Chloromethane	11.4	UG/KG	U	U	
REG	Dibromochloromethane	5.7	UG/KG	U	U	
REG	Ethylbenzene	5.7	UG/KG	U	U	
REG	Methylene Chloride	5.7	UG/KG	B	UJ	F12
REG	Styrene	5.7	UG/KG	U	U	
REG	Tetrachloroethene	5.7	UG/KG	U	U	
REG	Toluene	3.2	UG/KG	J	UJ	
REG	Trichloroethene	5.7	UG/KG	U	U	
REG	Vinyl Chloride	11.4	UG/KG	U	U	
REG	Xylenes, Total	5.7	UG/KG	U	U	

314211 Field Sample Type: Grab Matrix: Groundwater Collected: 02/24/1998

Sample Type	Metals	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Arsenic	3	UG/L	U	U	
REG	Barium	22.5	UG/L	B	J	
REG	Cadmium	0.21	UG/L	U	U	
REG	Chromium	0.95	UG/L	B	J	
REG	Lead	0.96	UG/L	U	U	
REG	Mercury	0.1	UG/L	U	U	
REG	Selenium	2.5	UG/L	U	U	
REG	Silver	0.86	UG/L	U	U	

Sample Type	Semi-Volatile Organics	Result	Units	Qualifier Lab		
REG	1,2,4-Trichlorobenzene	10	UG/L	U		
REG	1,2-Dichlorobenzene	10	UG/L	U		
REG	1,3-Dichlorobenzene	10	UG/L	U		
REG	1,4-Dichlorobenzene	10	UG/L	U		
REG	2,2'-oxybis (1-chloropropane)	10	UG/L	U		
REG	2,4,5-Trichlorophenol	25	UG/L	U		
REG	2,4,6-Trichlorophenol	10	UG/L	U	U	
REG	2,4-Dichlorophenol	10	UG/L	U	U	
REG	2,4-Dimethylphenol	10	UG/L	U	U	
REG	2,4-Dinitrophenol	10	UG/L	U	U	
REG	2,4-Dinitrotoluene	10	UG/L	U	U	
REG	2,6-Dinitrotoluene	10	UG/L	U	U	
REG	2-Chloronaphthalene	10	UG/L	U	U	
REG	2-Chlorophenol	10	UG/L	U	U	
REG	2-Methylnaphthalene	10	UG/L	U	UJ	C05
REG	2-Methylphenol	10	UG/L	U	U	
REG	2-Nitroaniline	25	UG/L	U	U	
REG	2-Nitrophenol	10	UG/L	U	U	
REG	3,3'-Dichlorobenzidine	20	UG/L	U	U	
REG	3-Nitroaniline	25	UG/L	U	U	
REG	4,6-Dinitro-o-Cresol	25	UG/L	U	U	
REG	4-Bromophenyl-phenyl Ether	10	UG/L	U	U	
REG	4-Chloroaniline	10	UG/L	U	U	
REG	4-Chlorophenyl-phenylether	10	UG/L	U	U	
REG	4-Methylphenol	10	UG/L	U	U	
REG	4-Nitroaniline	25	UG/L	U	U	
REG	4-Nitrophenol	25	UG/L	U	U	
REG	4-chloro-3-methylphenol	10	UG/L	U	U	
REG	Acenaphthene	10	UG/L	U	U	
REG	Acenaphthylene	10	UG/L	U	U	
REG	Anthracene	10	UG/L	U	U	
REG	Benzo(a)anthracene	10	UG/L	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-MW-02

314211

Field Sample Type: Grab

Matrix: Groundwater

Collected: 02/24/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Benzo(a)pyrene	10	UG/L	U	U	
REG	Benzo(b)fluoranthene	10	UG/L	U	U	
REG	Benzo(g,h,i)perylene	10	UG/L	U	U	
REG	Benzo(k)fluoranthene	10	UG/L	U	U	
REG	Bis(2-chloroethoxy)methane	10	UG/L	U	U	
REG	Bis(2-chloroethyl)ether	10	UG/L	U	U	
REG	Bis(2-ethylhexyl)phthalate	10	UG/L	U	U	
REG	Butyl Benzyl Phthalate	10	UG/L	U	U	
REG	Carbazole	10	UG/L	U	U	
REG	Chrysene	10	UG/L	U	U	
REG	Di-n-butyl Phthalate	10	UG/L	U	U	
REG	Di-n-octyl Phthalate	10	UG/L	U	U	
REG	Dibenzo(a,h)anthracene	10	UG/L	U	U	
REG	Dibenzofuran	10	UG/L	U	U	
REG	Diethyl Phthalate	10	UG/L	U	U	
REG	Dimethyl Phthalate	10	UG/L	U	U	
REG	Fluoranthene	10	UG/L	U	U	
REG	Fluorene	10	UG/L	U	U	
REG	Hexachlorobenzene	10	UG/L	U	U	
REG	Hexachlorobutadiene	10	UG/L	U	U	
REG	Hexachlorocyclopentadiene	10	UG/L	U	U	
REG	Hexachloroethane	10	UG/L	U	U	
REG	Indeno(1,2,3-cd)pyrene	10	UG/L	U	U	
REG	Isophorone	10	UG/L	U	U	
REG	N-Nitroso-di-n-propylamine	10	UG/L	U	U	
REG	N-Nitrosodiphenylamine	10	UG/L	U	U	
REG	Naphthalene	10	UG/L	U	U	
REG	Nitrobenzene	10	UG/L	U	U	
REG	Pentachlorophenol	25	UG/L	U	U	
REG	Phenanthrene	10	UG/L	U	U	
REG	Phenol	10	UG/L	U	U	
REG	Pyrene	10	UG/L	U	U	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5	UG/L	U	U	
REG	1,1,2,2-Tetrachloroethane	5	UG/L	U	UJ	C05
REG	1,1,2-Trichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloroethane	5	UG/L	U	U	
REG	1,2-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloropropane	5	UG/L	U	U	
REG	1,3-cis-Dichloropropene	5	UG/L	U	U	
REG	1,3-trans-Dichloropropene	5	UG/L	U	UJ	C05
REG	2-Butanone	10	UG/L	U	U	
REG	2-Hexanone	10	UG/L	U	UJ	C05
REG	4-Methyl-2-pentanone	10	UG/L	U	U	
REG	Acetone	10	UG/L	J	UJ	C02,F04,F06
REG	Benzene	5	UG/L	U	U	
REG	Bromodichloromethane	5	UG/L	U	U	
REG	Bromoform	5	UG/L	U	U	
REG	Bromomethane	10	UG/L	U	UJ	C05
REG	Carbon Disulfide	5	UG/L	U	U	
REG	Carbon Tetrachloride	5	UG/L	U	U	
REG	Chlorobenzene	5	UG/L	U	U	
REG	Chloroethane	10	UG/L	U	U	
REG	Chloroform	5	UG/L	U	U	
REG	Chloromethane	10	UG/L	U	U	
REG	Dibromochloromethane	5	UG/L	U	U	
REG	Ethylbenzene	5	UG/L	U	U	
REG	Methylene Chloride	5	UG/L	JB	UJ	C02,F06,F04
REG	Styrene	5	UG/L	U	U	
REG	Tetrachloroethene	5	UG/L	U	UJ	C05
REG	Toluene	5	UG/L	J	UJ	F04,F06
REG	Trichloroethene	5	UG/L	U	UJ	C05
REG	Vinyl Chloride	10	UG/L	U	U	
REG	Xylenes, Total	5	UG/L	U	U	

Ft. Stewart 16 SWMU

314212

Field Sample Type: Grab

Matrix: Groundwater

Collected: 07/09/1999

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	10.8	UG/L	U	U	
REG	1,2-Dichlorobenzene	10.8	UG/L	U	U	
REG	1,3-Dichlorobenzene	10.8	UG/L	U	U	
REG	1,4-Dichlorobenzene	10.8	UG/L	U	U	
REG	2,2'-oxybis (1-chloropropane)	10.8	UG/L	U	U	
REG	2,4,5-Trichlorophenol	10.8	UG/L	U	U	
REG	2,4,6-Trichlorophenol	10.8	UG/L	U	U	
REG	2,4-Dichlorophenol	10.8	UG/L	U	U	
REG	2,4-Dimethylphenol	10.8	UG/L	U	U	
REG	2,4-Dinitrophenol	21.5	UG/L	U	U	
REG	2,4-Dinitrotoluene	10.8	UG/L	U	U	
REG	2,6-Dinitrotoluene	10.8	UG/L	U	U	
REG	2-Chloronaphthalene	10.8	UG/L	U	U	
REG	2-Chlorophenol	10.8	UG/L	U	U	
REG	2-Methylnaphthalene	10.8	UG/L	U	U	
REG	2-Methylphenol	10.8	UG/L	U	U	
REG	2-Nitroaniline	10.8	UG/L	U	U	
REG	2-Nitrophenol	10.8	UG/L	U	U	
REG	3,3'-Dichlorobenzidine	53.8	UG/L	U	U	
REG	3-Nitroaniline	10.8	UG/L	U	U	
REG	4,6-Dinitro-o-Cresol	10.8	UG/L	U	U	
REG	4-Bromophenyl-phenyl Ether	10.8	UG/L	U	U	
REG	4-Chloroaniline	21.5	UG/L	U	U	
REG	4-Chlorophenyl-phenylether	10.8	UG/L	U	U	
REG	4-Methylphenol	10.8	UG/L	U	U	
REG	4-Nitroaniline	10.8	UG/L	U	U	
REG	4-Nitrophenol	21.5	UG/L	U	U	P01
REG	4-chloro-3-methylphenol	10.8	UG/L	U	U	
REG	Acenaphthene	10.8	UG/L	U	U	
REG	Acenaphthylene	10.8	UG/L	U	U	
REG	Anthracene	10.8	UG/L	U	U	
REG	Benzo(a)anthracene	10.8	UG/L	U	U	
REG	Benzo(a)pyrene	10.8	UG/L	U	U	
REG	Benzo(b)fluoranthene	10.8	UG/L	U	U	
REG	Benzo(g,h,i)perylene	10.8	UG/L	U	U	
REG	Benzo(k)fluoranthene	10.8	UG/L	U	U	
REG	Bis(2-chloroethoxy)methane	10.8	UG/L	U	U	
REG	Bis(2-chloroethyl)ether	10.8	UG/L	U	U	
REG	Bis(2-ethylhexyl)phthalate	10.8	UG/L	U	U	
REG	Butyl Benzyl Phthalate	10.8	UG/L	U	U	
REG	Carbazole	10.8	UG/L	U	U	
REG	Chrysene	10.8	UG/L	U	U	
REG	Di-n-butyl Phthalate	10.8	UG/L	U	U	
REG	Di-n-octyl Phthalate	10.8	UG/L	U	U	
REG	Dibenzo(a,h)anthracene	10.8	UG/L	U	U	
REG	Dibenzofuran	10.8	UG/L	U	U	
REG	Diethyl Phthalate	10.8	UG/L	U	U	
REG	Dimethyl Phthalate	10.8	UG/L	U	U	
REG	Fluoranthene	10.8	UG/L	U	U	
REG	Fluorene	10.8	UG/L	U	U	
REG	Hexachlorobenzene	10.8	UG/L	U	U	
REG	Hexachlorobutadiene	10.8	UG/L	U	U	
REG	Hexachlorocyclopentadiene	10.8	UG/L	U	U	
REG	Hexachloroethane	10.8	UG/L	U	U	
REG	Indeno(1,2,3-cd)pyrene	10.8	UG/L	U	U	
REG	Isophorone	10.8	UG/L	U	U	
REG	N-Nitroso-di-n-propylamine	10.8	UG/L	U	U	
REG	Naphthalene	10.8	UG/L	U	U	
REG	Nitrobenzene	10.8	UG/L	U	U	
REG	Pentachlorophenol	10.8	UG/L	U	U	
REG	Phenanthrene	10.8	UG/L	U	U	
REG	Phenol	10.8	UG/L	U	U	
REG	Pyrene	10.8	UG/L	U	U	

Location: SWMU 31, DEH Asphalt Tanks

Station: 31-MW-03

311311

0.0 - 1.0 FT

Field Sample Type: Grab

Matrix: Soil

Collected: 01/28/1998

Sample Type	Metals	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Arsenic	0.33	MG/KG	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-MW-03

311311

0.0 - 1.0 FT

Field Sample Type: Grab

Matrix: Soil

Collected: 01/28/1998

Sample Type	Metals	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Barium	8.5	MG/KG	B	J	
REG	Cadmium	0.07	MG/KG	B	J	
REG	Chromium	2	MG/KG	B	J	
REG	Lead	2.3	MG/KG		=	
REG	Mercury	0.02	MG/KG	U	U	
REG	Selenium	0.14	MG/KG	U	U	
REG	Silver	0.06	MG/KG	U	U	

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	358	UG/KG	U	U	
REG	1,2-Dichlorobenzene	358	UG/KG	U	U	
REG	1,3-Dichlorobenzene	358	UG/KG	U	U	
REG	1,4-Dichlorobenzene	358	UG/KG	U	U	
REG	2,2'-oxybis (1-chloropropane)	358	UG/KG	U	U	
REG	2,4,5-Trichlorophenol	896	UG/KG	U	U	
REG	2,4,6-Trichlorophenol	358	UG/KG	U	U	
REG	2,4-Dichlorophenol	358	UG/KG	U	U	
REG	2,4-Dimethylphenol	358	UG/KG	U	U	
REG	2,4-Dinitrophenol	896	UG/KG	U	U	
REG	2,4-Dinitrotoluene	358	UG/KG	U	U	
REG	2,6-Dinitrotoluene	358	UG/KG	U	U	
REG	2-Chloronaphthalene	358	UG/KG	U	U	
REG	2-Chlorophenol	358	UG/KG	U	U	
REG	2-Methylnaphthalene	358	UG/KG	U	UJ	C05
REG	2-Methylphenol	358	UG/KG	U	U	
REG	2-Nitroaniline	896	UG/KG	U	U	
REG	2-Nitrophenol	358	UG/KG	U	U	
REG	3,3'-Dichlorobenzidine	717	UG/KG	U	U	
REG	3-Nitroaniline	896	UG/KG	U	UJ	C05
REG	4,6-Dinitro-o-Cresol	896	UG/KG	U	U	
REG	4-Bromophenyl-phenyl Ether	358	UG/KG	U	U	
REG	4-Chloroaniline	358	UG/KG	U	U	
REG	4-Chlorophenyl-phenylether	358	UG/KG	U	U	
REG	4-Methylphenol	358	UG/KG	U	U	
REG	4-Nitroaniline	896	UG/KG	U	U	
REG	4-Nitrophenol	896	UG/KG	U	U	
REG	4-chloro-3-methylphenol	358	UG/KG	U	U	
REG	Acenaphthene	358	UG/KG	U	U	
REG	Acenaphthylene	358	UG/KG	U	U	
REG	Anthracene	358	UG/KG	U	U	
REG	Benzo(a)anthracene	358	UG/KG	U	U	
REG	Benzo(a)pyrene	358	UG/KG	U	U	
REG	Benzo(b)fluoranthene	358	UG/KG	U	U	
REG	Benzo(g,h,i)perylene	358	UG/KG	U	U	
REG	Benzo(k)fluoranthene	358	UG/KG	U	U	
REG	Bis(2-chloroethoxy)methane	358	UG/KG	U	U	
REG	Bis(2-chloroethyl)ether	358	UG/KG	U	U	
REG	Bis(2-ethylhexyl)phthalate	358	UG/KG	U	U	
REG	Butyl Benzyl Phthalate	358	UG/KG	U	U	
REG	Carbazole	358	UG/KG	U	UJ	C05
REG	Chrysene	358	UG/KG	U	U	
REG	Di-n-butyl Phthalate	358	UG/KG	U	U	
REG	Di-n-octyl Phthalate	358	UG/KG	U	U	
REG	Dibenzo(a,h)anthracene	358	UG/KG	U	U	
REG	Dibenzofuran	358	UG/KG	U	U	
REG	Diethyl Phthalate	358	UG/KG	U	U	
REG	Dimethyl Phthalate	358	UG/KG	U	U	
REG	Fluoranthene	358	UG/KG	U	U	
REG	Fluorene	358	UG/KG	U	U	
REG	Hexachlorobenzene	358	UG/KG	U	U	
REG	Hexachlorobutadiene	358	UG/KG	U	U	
REG	Hexachlorocyclopentadiene	358	UG/KG	U	U	
REG	Hexachloroethane	358	UG/KG	U	U	
REG	Indeno(1,2,3-cd)pyrene	358	UG/KG	U	U	
REG	Isophorone	358	UG/KG	U	U	
REG	N-Nitroso-di-n-propylamine	358	UG/KG	U	U	
REG	N-Nitrosodiphenylamine	358	UG/KG	U	U	
REG	Naphthalene	358	UG/KG	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-MW-03

311311 0.0 - 1.0 FT Field Sample Type: Grab Matrix: Soil Collected: 01/28/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Nitrobenzene	358	UG/KG	U	U	
REG	Pentachlorophenol	896	UG/KG	U	U	
REG	Phenanthrene	358	UG/KG	U	U	
REG	Phenol	358	UG/KG	U	U	
REG	Pyrene	358	UG/KG	U	U	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5.4	UG/KG	U	U	
REG	1,1,2,2-Tetrachloroethane	5.4	UG/KG	U	U	
REG	1,1,2-Trichloroethane	5.4	UG/KG	U	U	
REG	1,1-Dichloroethane	5.4	UG/KG	U	U	
REG	1,1-Dichloroethene	5.4	UG/KG	U	U	
REG	1,2-Dichloroethane	5.4	UG/KG	U	U	
REG	1,2-Dichloroethene	5.4	UG/KG	U	U	
REG	1,2-Dichloropropane	5.4	UG/KG	U	U	
REG	1,3-cis-Dichloropropene	5.4	UG/KG	U	U	
REG	1,3-trans-Dichloropropene	5.4	UG/KG	U	U	
REG	2-Butanone	10.8	UG/KG	U	U	
REG	2-Hexanone	10.8	UG/KG	U	U	
REG	4-Methyl-2-pentanone	10.8	UG/KG	U	U	
REG	Acetone	10.8	UG/KG	JB	UJ	F06,F01
REG	Benzene	5.4	UG/KG	U	U	
REG	Bromodichloromethane	5.4	UG/KG	U	U	
REG	Bromoform	5.4	UG/KG	U	U	
REG	Bromomethane	10.8	UG/KG	U	U	
REG	Carbon Disulfide	5.4	UG/KG	U	U	
REG	Carbon Tetrachloride	5.4	UG/KG	U	U	
REG	Chlorobenzene	5.4	UG/KG	U	U	
REG	Chloroethane	10.8	UG/KG	U	U	
REG	Chloroform	5.4	UG/KG	U	U	
REG	Chloromethane	10.8	UG/KG	U	U	
REG	Dibromochloromethane	5.4	UG/KG	U	U	
REG	Ethylbenzene	5.4	UG/KG	U	U	
REG	Methylene Chloride	5.5	UG/KG	B	UJ	F01,F07
REG	Styrene	5.4	UG/KG	U	U	
REG	Tetrachloroethene	5.4	UG/KG	U	U	
REG	Toluene	4.2	UG/KG	J	UJ	F12
REG	Trichloroethene	5.4	UG/KG	U	U	
REG	Vinyl Chloride	10.8	UG/KG	U	U	
REG	Xylenes, Total	0.98	UG/KG	J	UJ	N03

311312 2.5 - 5.0 FT Field Sample Type: Grab Matrix: Soil Collected: 01/28/1998

Sample Type	Metals	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Arsenic	0.35	MG/KG	U	U	
REG	Barium	2	MG/KG	B	J	
REG	Cadmium	0.04	MG/KG	U	U	
REG	Chromium	1.2	MG/KG	B	J	
REG	Lead	1.2	MG/KG		=	
REG	Mercury	0.04	MG/KG	B	J	
REG	Selenium	0.16	MG/KG	B	U	F01,F06
REG	Silver	0.07	MG/KG	U	U	

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	379	UG/KG	U	U	
REG	1,2-Dichlorobenzene	379	UG/KG	U	U	
REG	1,3-Dichlorobenzene	379	UG/KG	U	U	
REG	1,4-Dichlorobenzene	379	UG/KG	U	U	
REG	2,2'-oxybis (1-chloropropane)	379	UG/KG	U	U	
REG	2,4,5-Trichlorophenol	947	UG/KG	U	U	
REG	2,4,6-Trichlorophenol	379	UG/KG	U	U	
REG	2,4-Dichlorophenol	379	UG/KG	U	U	
REG	2,4-Dimethylphenol	379	UG/KG	U	U	
REG	2,4-Dinitrophenol	947	UG/KG	U	U	
REG	2,4-Dinitrotoluene	379	UG/KG	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-MW-03

311312

2.5 - 5.0 FT

Field Sample Type: Grab

Matrix: Soil

Collected: 01/28/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	2,6-Dinitrotoluene	379	UG/KG	U	U	
REG	2-Chloronaphthalene	379	UG/KG	U	U	
REG	2-Chlorophenol	379	UG/KG	U	U	
REG	2-Methylnaphthalene	379	UG/KG	U	UJ	C05
REG	2-Methylphenol	379	UG/KG	U	U	
REG	2-Nitroaniline	947	UG/KG	U	U	
REG	2-Nitrophenol	379	UG/KG	U	U	
REG	3,3'-Dichlorobenzidine	758	UG/KG	U	U	
REG	3-Nitroaniline	947	UG/KG	U	UJ	C05
REG	4,6-Dinitro-o-Cresol	947	UG/KG	U	U	
REG	4-Bromophenyl-phenyl Ether	379	UG/KG	U	U	
REG	4-Chloroaniline	379	UG/KG	U	U	
REG	4-Chlorophenyl-phenylether	379	UG/KG	U	U	
REG	4-Methylphenol	379	UG/KG	U	U	
REG	4-Nitroaniline	947	UG/KG	U	U	
REG	4-Nitrophenol	947	UG/KG	U	U	
REG	4-chloro-3-methylphenol	379	UG/KG	U	U	
REG	Acenaphthene	379	UG/KG	U	U	
REG	Acenaphthylene	379	UG/KG	U	U	
REG	Anthracene	379	UG/KG	U	U	
REG	Benzo(a)anthracene	379	UG/KG	U	U	
REG	Benzo(a)pyrene	379	UG/KG	U	U	
REG	Benzo(b)fluoranthene	379	UG/KG	U	U	
REG	Benzo(g,h,i)perylene	379	UG/KG	U	U	
REG	Benzo(k)fluoranthene	379	UG/KG	U	U	
REG	Bis(2-chloroethoxy)methane	379	UG/KG	U	U	
REG	Bis(2-chloroethyl)ether	379	UG/KG	U	U	
REG	Bis(2-ethylhexyl)phthalate	379	UG/KG	U	U	
REG	Butyl Benzyl Phthalate	379	UG/KG	U	U	
REG	Carbazole	379	UG/KG	U	UJ	C05
REG	Chrysene	379	UG/KG	U	U	
REG	Di-n-butyl Phthalate	379	UG/KG	U	U	
REG	Di-n-octyl Phthalate	379	UG/KG	U	U	
REG	Dibenzo(a,h)anthracene	379	UG/KG	U	U	
REG	Dibenzofuran	379	UG/KG	U	U	
REG	Diethyl Phthalate	379	UG/KG	U	U	
REG	Dimethyl Phthalate	379	UG/KG	U	U	
REG	Fluoranthene	379	UG/KG	U	U	
REG	Fluorene	379	UG/KG	U	U	
REG	Hexachlorobenzene	379	UG/KG	U	U	
REG	Hexachlorobutadiene	379	UG/KG	U	U	
REG	Hexachlorocyclopentadiene	379	UG/KG	U	U	
REG	Hexachloroethane	379	UG/KG	U	U	
REG	Indeno(1,2,3-cd)pyrene	379	UG/KG	U	U	
REG	Isophorone	379	UG/KG	U	U	
REG	N-Nitroso-di-n-propylamine	379	UG/KG	U	U	
REG	N-Nitrosodiphenylamine	379	UG/KG	U	U	
REG	Naphthalene	379	UG/KG	U	U	
REG	Nitrobenzene	379	UG/KG	U	U	
REG	Pentachlorophenol	947	UG/KG	U	U	
REG	Phenanthrene	379	UG/KG	U	U	
REG	Phenol	379	UG/KG	U	U	
REG	Pyrene	379	UG/KG	U	U	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5.7	UG/KG	U	U	
REG	1,1,2,2-Tetrachloroethane	5.7	UG/KG	U	UJ	K01
REG	1,1,2-Trichloroethane	5.7	UG/KG	U	U	
REG	1,1-Dichloroethane	5.7	UG/KG	U	U	
REG	1,1-Dichloroethene	5.7	UG/KG	U	U	
REG	1,2-Dichloroethane	5.7	UG/KG	U	U	
REG	1,2-Dichloroethene	5.7	UG/KG	U	U	
REG	1,2-Dichloropropane	5.7	UG/KG	U	U	
REG	1,3-cis-Dichloropropene	5.7	UG/KG	U	U	
REG	1,3-trans-Dichloropropene	5.7	UG/KG	U	U	
REG	2-Butanone	11.4	UG/KG	U	U	
REG	2-Hexanone	11.4	UG/KG	U	UJ	K01
REG	4-Methyl-2-pentanone	11.4	UG/KG	U	UJ	K01

Location: SWMU 31, DEH Asphalt Tanks
Station: 31-MW-03

311312

2.5 - 5.0 FT

Field Sample Type: Grab

Matrix: Soil

Collected: 01/28/1998

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Acetone	33.6	UG/KG	B	U	F01,F07
REG	Benzene	5.7	UG/KG	U	U	
REG	Bromodichloromethane	5.7	UG/KG	U	U	
REG	Bromoform	5.7	UG/KG	U	U	
REG	Bromomethane	11.4	UG/KG	U	U	
REG	Carbon Disulfide	5.7	UG/KG	U	U	
REG	Carbon Tetrachloride	5.7	UG/KG	U	U	
REG	Chlorobenzene	5.7	UG/KG	U	UJ	K01
REG	Chloroethane	11.4	UG/KG	U	U	
REG	Chloroform	5.7	UG/KG	U	U	
REG	Chloromethane	11.4	UG/KG	U	U	
REG	Dibromochloromethane	5.7	UG/KG	U	U	
REG	Ethylbenzene	5.7	UG/KG	U	UJ	K01
REG	Methylene Chloride	11.6	UG/KG	B	UJ	F01,F07
REG	Styrene	5.7	UG/KG	U	UJ	K01
REG	Tetrachloroethene	5.7	UG/KG	U	UJ	K01
REG	Toluene	28.7	UG/KG		J	G01,K01
REG	Trichloroethene	5.7	UG/KG	U	U	
REG	Vinyl Chloride	11.4	UG/KG	U	U	
REG	Xylenes, Total	5.7	UG/KG	U	UJ	K01

314311

Field Sample Type: Grab

Matrix: Groundwater

Collected: 02/25/1998

Sample Type	Metals	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Arsenic	3	UG/L	U	U	
REG	Barium	28.2	UG/L	B	J	
REG	Cadmium	0.21	UG/L	U	U	
REG	Chromium	0.56	UG/L	B	J	
REG	Lead	0.96	UG/L	U	U	
REG	Mercury	0.1	UG/L	U	U	
REG	Selenium	2.5	UG/L	U	U	
REG	Silver	0.86	UG/L	U	U	

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	10.1	UG/L	U	U	
REG	1,2-Dichlorobenzene	10.1	UG/L	U	U	
REG	1,3-Dichlorobenzene	10.1	UG/L	U	U	
REG	1,4-Dichlorobenzene	10.1	UG/L	U	U	
REG	2,2'-oxybis (1-chloropropane)	10.1	UG/L	U	U	
REG	2,4,5-Trichlorophenol	25.2	UG/L	U	U	
REG	2,4,6-Trichlorophenol	10.1	UG/L	U	U	
REG	2,4-Dichlorophenol	10.1	UG/L	U	U	
REG	2,4-Dimethylphenol	10.1	UG/L	U	U	
REG	2,4-Dinitrophenol	25.2	UG/L	U	U	
REG	2,4-Dinitrotoluene	10.1	UG/L	U	U	
REG	2,6-Dinitrotoluene	10.1	UG/L	U	U	
REG	2-Chloronaphthalene	10.1	UG/L	U	U	
REG	2-Chlorophenol	10.1	UG/L	U	U	
REG	2-Methylnaphthalene	10.1	UG/L	U	UJ	C05
REG	2-Methylphenol	10.1	UG/L	U	U	
REG	2-Nitroaniline	25.2	UG/L	U	U	
REG	2-Nitrophenol	10.1	UG/L	U	U	
REG	3,3'-Dichlorobenzidine	20.2	UG/L	U	U	
REG	3-Nitroaniline	25.2	UG/L	U	U	
REG	4,6-Dinitro-o-Cresol	25.2	UG/L	U	U	
REG	4-Bromophenyl-phenyl Ether	10.1	UG/L	U	U	
REG	4-Chloroaniline	10.1	UG/L	U	U	
REG	4-Chlorophenyl-phenylether	10.1	UG/L	U	U	
REG	4-Methylphenol	10.1	UG/L	U	U	
REG	4-Nitroaniline	25.2	UG/L	U	U	
REG	4-Nitrophenol	25.2	UG/L	U	U	
REG	4-chloro-3-methylphenol	10.1	UG/L	U	U	
REG	Acenaphthene	10.1	UG/L	U	U	
REG	Acenaphthylene	10.1	UG/L	U	U	
REG	Anthracene	10.1	UG/L	U	U	
REG	Benzo(a)anthracene	10.1	UG/L	U	U	
REG	Benzo(a)pyrene	10.1	UG/L	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-MW-03

314311

Field Sample Type: Grab

Matrix: Groundwater

Collected: 02/25/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Benzo(b)fluoranthene	10.1	UG/L	U	U	
REG	Benzo(g,h,i)perylene	10.1	UG/L	U	U	
REG	Benzo(k)fluoranthene	10.1	UG/L	U	U	
REG	Bis(2-chloroethoxy)methane	10.1	UG/L	U	U	
REG	Bis(2-chloroethyl)ether	10.1	UG/L	U	U	
REG	Bis(2-ethylhexyl)phthalate	18.6	UG/L	J	U	C05
REG	Butyl Benzyl Phthalate	10.1	UG/L	U	U	
REG	Carbazole	10.1	UG/L	U	U	
REG	Chrysene	10.1	UG/L	U	U	
REG	Di-n-butyl Phthalate	10.1	UG/L	U	U	
REG	Di-n-octyl Phthalate	10.1	UG/L	U	U	
REG	Dibenzo(a,h)anthracene	10.1	UG/L	U	U	
REG	Dibenzofuran	10.1	UG/L	U	U	
REG	Diethyl Phthalate	10.1	UG/L	U	U	
REG	Dimethyl Phthalate	10.1	UG/L	U	U	
REG	Fluoranthene	10.1	UG/L	U	U	
REG	Fluorene	10.1	UG/L	U	U	
REG	Hexachlorobenzene	10.1	UG/L	U	U	
REG	Hexachlorobutadiene	10.1	UG/L	U	U	
REG	Hexachlorocyclopentadiene	10.1	UG/L	U	U	
REG	Hexachloroethane	10.1	UG/L	U	U	
REG	Indeno(1,2,3-cd)pyrene	10.1	UG/L	U	U	
REG	Isophorone	10.1	UG/L	U	U	
REG	N-Nitroso-di-n-propylamine	10.1	UG/L	U	U	
REG	N-Nitrosodiphenylamine	10.1	UG/L	U	U	
REG	Naphthalene	10.1	UG/L	U	U	
REG	Nitrobenzene	10.1	UG/L	U	U	
REG	Pentachlorophenol	25.2	UG/L	U	U	
REG	Phenanthrene	10.1	UG/L	U	U	
REG	Phenol	10.1	UG/L	U	U	
REG	Pyrene	10.1	UG/L	U	U	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5	UG/L	U	U	
REG	1,1,2,2-Tetrachloroethane	5	UG/L	U	U	
REG	1,1,2-Trichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloroethane	5	UG/L	U	U	
REG	1,2-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloropropane	5	UG/L	U	U	
REG	1,3-cis-Dichloropropene	5	UG/L	U	U	
REG	1,3-trans-Dichloropropene	5	UG/L	U	U	
REG	2-Butanone	10	UG/L	U	R	C01,C04
REG	2-Hexanone	10	UG/L	U	U	
REG	4-Methyl-2-pentanone	10	UG/L	U	U	
REG	Acetone	10	UG/L	J	UJ	C02,C05,F04,F06
REG	Benzene	0.35	UG/L	J	UJ	N03
REG	Bromodichloromethane	5	UG/L	U	U	
REG	Bromoform	5	UG/L	U	U	
REG	Bromomethane	10	UG/L	U	U	
REG	Carbon Disulfide	5	UG/L	U	U	
REG	Carbon Tetrachloride	5	UG/L	U	U	
REG	Chlorobenzene	5	UG/L	U	U	
REG	Chloroethane	10	UG/L	U	U	
REG	Chloroform	5	UG/L	U	U	
REG	Chloromethane	10	UG/L	U	U	
REG	Dibromochloromethane	5	UG/L	U	U	
REG	Ethylbenzene	0.61	UG/L	J	UJ	N03
REG	Methylene Chloride	5	UG/L	JB	UJ	F04,F06
REG	Styrene	5	UG/L	U	U	
REG	Tetrachloroethene	5	UG/L	U	U	
REG	Toluene	5	UG/L	J	UJ	F04,F06
REG	Trichloroethene	5	UG/L	U	U	
REG	Vinyl Chloride	2	UG/L	U	U	
REG	Xylenes, Total	3.6	UG/L	J	J	F08,F04

314312

Field Sample Type: Grab

Matrix: Groundwater

Collected: 07/08/1999

Ft. Stewart 16 SWMU

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	11.9	UG/L	U	U	
REG	1,2-Dichlorobenzene	11.9	UG/L	U	U	
REG	1,3-Dichlorobenzene	11.9	UG/L	U	U	
REG	1,4-Dichlorobenzene	11.9	UG/L	U	U	
REG	2,2'-oxybis (1-chloropropane)	11.9	UG/L	U	U	
REG	2,4,5-Trichlorophenol	11.9	UG/L	U	U	
REG	2,4,6-Trichlorophenol	11.9	UG/L	U	U	
REG	2,4-Dichlorophenol	11.9	UG/L	U	U	
REG	2,4-Dimethylphenol	11.9	UG/L	U	U	
REG	2,4-Dinitrophenol	23.8	UG/L	U	U	
REG	2,4-Dinitrotoluene	11.9	UG/L	U	U	
REG	2,6-Dinitrotoluene	11.9	UG/L	U	U	
REG	2-Chloronaphthalene	11.9	UG/L	U	U	
REG	2-Chlorophenol	11.9	UG/L	U	U	
REG	2-Methylnaphthalene	11.9	UG/L	U	U	
REG	2-Methylphenol	11.9	UG/L	U	U	
REG	2-Nitroaniline	11.9	UG/L	U	U	
REG	2-Nitrophenol	11.9	UG/L	U	U	
REG	3,3'-Dichlorobenzidine	23.8	UG/L	U	U	
REG	3-Nitroaniline	29.8	UG/L	U	U	
REG	4,6-Dinitro-o-Cresol	23.8	UG/L	U	U	
REG	4-Bromophenyl-phenyl Ether	11.9	UG/L	U	U	
REG	4-Chloroaniline	11.9	UG/L	U	U	
REG	4-Chlorophenyl-phenylether	11.9	UG/L	U	U	
REG	4-Methylphenol	11.9	UG/L	U	U	
REG	4-Nitroaniline	11.9	UG/L	U	U	
REG	4-Nitrophenol	11.9	UG/L	U	U	
REG	4-chloro-3-methylphenol	11.9	UG/L	U	U	
REG	Acenaphthene	11.9	UG/L	U	U	
REG	Acenaphthylene	11.9	UG/L	U	U	
REG	Anthracene	11.9	UG/L	U	U	
REG	Benzo(a)anthracene	11.9	UG/L	U	U	
REG	Benzo(a)pyrene	11.9	UG/L	U	U	
REG	Benzo(b)fluoranthene	11.9	UG/L	U	U	
REG	Benzo(g,h,i)perylene	11.9	UG/L	U	U	
REG	Benzo(k)fluoranthene	11.9	UG/L	U	U	
REG	Bis(2-chloroethoxy)methane	11.9	UG/L	U	U	
REG	Bis(2-chloroethyl)ether	11.9	UG/L	U	U	
REG	Bis(2-ethylhexyl)phthalate	11.9	UG/L	U	U	
REG	Butyl Benzyl Phthalate	11.9	UG/L	U	U	
REG	Carbazole	11.9	UG/L	U	U	
REG	Chrysene	11.9	UG/L	U	U	
REG	Di-n-butyl Phthalate	11.9	UG/L	U	U	
REG	Di-n-octyl Phthalate	11.9	UG/L	U	U	
REG	Dibenzo(a,h)anthracene	11.9	UG/L	U	U	
REG	Dibenzofuran	11.9	UG/L	U	U	
REG	Diethyl Phthalate	11.9	UG/L	U	U	
REG	Dimethyl Phthalate	11.9	UG/L	U	U	
REG	Fluoranthene	11.9	UG/L	U	U	
REG	Fluorene	11.9	UG/L	U	U	
REG	Hexachlorobenzene	11.9	UG/L	U	U	
REG	Hexachlorobutadiene	11.9	UG/L	U	U	
REG	Hexachlorocyclopentadiene	11.9	UG/L	U	U	
REG	Hexachloroethane	11.9	UG/L	U	U	
REG	Indeno(1,2,3-cd)pyrene	11.9	UG/L	U	U	
REG	Isophorone	11.9	UG/L	U	U	
REG	N-Nitroso-di-n-propylamine	11.9	UG/L	U	U	
REG	Naphthalene	11.9	UG/L	U	U	
REG	Nitrobenzene	11.9	UG/L	U	U	
REG	Pentachlorophenol	8.2	UG/L	J	J	H02
REG	Phenanthrene	11.9	UG/L	U	U	
REG	Phenol	11.9	UG/L	U	U	
REG	Pyrene	11.9	UG/L	U	U	

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-SS-07

317711

0.0 - 1.0 FT

Field Sample Type: Grab

Matrix: Surface Soil

Collected: 01/31/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	340	UG/KG	U	U	
REG	1,2-Dichlorobenzene	340	UG/KG	U	U	
REG	1,3-Dichlorobenzene	340	UG/KG	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-SS-07

317711

0.0 - 1.0 FT

Field Sample Type: Grab

Matrix: Surface Soil

Collected: 01/31/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,4-Dichlorobenzene	340	UG/KG	U	U	
REG	2,2'-oxybis (1-chloropropane)	340	UG/KG	U	U	
REG	2,4,5-Trichlorophenol	851	UG/KG	U	U	
REG	2,4,6-Trichlorophenol	340	UG/KG	U	U	
REG	2,4-Dichlorophenol	340	UG/KG	U	U	
REG	2,4-Dimethylphenol	340	UG/KG	U	U	
REG	2,4-Dinitrophenol	851	UG/KG	U	U	
REG	2,4-Dinitrotoluene	340	UG/KG	U	U	
REG	2,6-Dinitrotoluene	340	UG/KG	U	U	
REG	2-Chloronaphthalene	340	UG/KG	U	U	
REG	2-Chlorophenol	340	UG/KG	U	U	
REG	2-Methylnaphthalene	340	UG/KG	U	UJ	C05
REG	2-Methylphenol	340	UG/KG	U	U	
REG	2-Nitroaniline	851	UG/KG	U	U	
REG	2-Nitrophenol	340	UG/KG	U	U	
REG	3,3'-Dichlorobenzidine	680	UG/KG	U	U	
REG	3-Nitroaniline	851	UG/KG	U	U	
REG	4,6-Dinitro-o-Cresol	851	UG/KG	U	U	
REG	4-Bromophenyl-phenyl Ether	340	UG/KG	U	U	
REG	4-Chloroaniline	340	UG/KG	U	U	
REG	4-Chlorophenyl-phenylether	340	UG/KG	U	U	
REG	4-Methylphenol	340	UG/KG	U	U	
REG	4-Nitroaniline	851	UG/KG	U	U	
REG	4-Nitrophenol	851	UG/KG	U	U	
REG	4-chloro-3-methylphenol	340	UG/KG	U	U	
REG	Acenaphthene	340	UG/KG	U	U	
REG	Acenaphthylene	340	UG/KG	U	U	
REG	Anthracene	340	UG/KG	U	U	
REG	Benzo(a)anthracene	340	UG/KG	U	U	
REG	Benzo(a)pyrene	340	UG/KG	U	U	
REG	Benzo(b)fluoranthene	198	UG/KG	J	J	
REG	Benzo(g,h,i)perylene	340	UG/KG	U	U	
REG	Benzo(k)fluoranthene	340	UG/KG	U	U	
REG	Bis(2-chloroethoxy)methane	340	UG/KG	U	U	
REG	Bis(2-chloroethyl)ether	340	UG/KG	U	U	
REG	Bis(2-ethylhexyl)phthalate	340	UG/KG	U	U	
REG	Butyl Benzyl Phthalate	340	UG/KG	U	U	
REG	Carbazole	340	UG/KG	U	U	
REG	Chrysene	340	UG/KG	U	U	
REG	Di-n-butyl Phthalate	340	UG/KG	U	U	
REG	Di-n-octyl Phthalate	340	UG/KG	U	U	
REG	Dibenzo(a,h)anthracene	340	UG/KG	U	U	
REG	Dibenzofuran	340	UG/KG	U	U	
REG	Diethyl Phthalate	340	UG/KG	U	U	
REG	Dimethyl Phthalate	340	UG/KG	U	U	
REG	Fluoranthene	207	UG/KG	J	J	
REG	Fluorene	340	UG/KG	U	U	
REG	Hexachlorobenzene	340	UG/KG	U	U	
REG	Hexachlorobutadiene	340	UG/KG	U	U	
REG	Hexachlorocyclopentadiene	340	UG/KG	U	U	
REG	Hexachloroethane	340	UG/KG	U	U	
REG	Indeno(1,2,3-cd)pyrene	340	UG/KG	U	U	
REG	Isophorone	340	UG/KG	U	U	
REG	N-Nitroso-di-n-propylamine	340	UG/KG	U	U	
REG	N-Nitrosodiphenylamine	340	UG/KG	U	U	
REG	Naphthalene	340	UG/KG	U	U	
REG	Nitrobenzene	340	UG/KG	U	U	
REG	Pentachlorophenol	851	UG/KG	U	U	
REG	Phenanthrene	340	UG/KG	U	U	
REG	Phenol	340	UG/KG	U	U	
REG	Pyrene	283	UG/KG	J	J	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5.2	UG/KG	U	U	
REG	1,1,2,2-Tetrachloroethane	5.2	UG/KG	U	UJ	K01
REG	1,1,2-Trichloroethane	5.2	UG/KG	U	U	
REG	1,1-Dichloroethane	5.2	UG/KG	U	U	
REG	1,1-Dichloroethene	5.2	UG/KG	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-SS-07

317711 0.0 - 1.0 FT Field Sample Type: Grab Matrix: Surface Soil Collected: 01/31/1998

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2-Dichloroethane	5.2	UG/KG	U	U	
REG	1,2-Dichloroethene	5.2	UG/KG	U	U	
REG	1,2-Dichloropropane	5.2	UG/KG	U	U	
REG	1,3-cis-Dichloropropene	5.2	UG/KG	U	U	
REG	1,3-trans-Dichloropropene	5.2	UG/KG	U	U	
REG	2-Butanone	10.3	UG/KG	U	U	
REG	2-Hexanone	10.3	UG/KG	U	UJ	K01
REG	4-Methyl-2-pentanone	10.3	UG/KG	U	U	
REG	Acetone	2.5	UG/KG	J	UJ	C01,C04,C05,F12
REG	Benzene	5.2	UG/KG	U	U	
REG	Bromodichloromethane	5.2	UG/KG	U	U	
REG	Bromoform	5.2	UG/KG	U	UJ	K01
REG	Bromomethane	10.3	UG/KG	U	U	
REG	Carbon Disulfide	5.2	UG/KG	U	U	
REG	Carbon Tetrachloride	5.2	UG/KG	U	U	
REG	Chlorobenzene	5.2	UG/KG	U	UJ	K01
REG	Chloroethane	10.3	UG/KG	U	U	
REG	Chloroform	5.2	UG/KG	U	U	
REG	Chloromethane	10.3	UG/KG	U	U	
REG	Dibromochloromethane	5.2	UG/KG	U	UJ	K01
REG	Ethylbenzene	5.2	UG/KG	U	UJ	K01
REG	Methylene Chloride	8.3	UG/KG	B	UJ	C02,F01,F07
REG	Styrene	5.2	UG/KG	U	UJ	K01
REG	Tetrachloroethene	5.2	UG/KG	U	UJ	K01
REG	Toluene	79.5	UG/KG	B	=	F08
REG	Trichloroethene	5.2	UG/KG	U	U	
REG	Vinyl Chloride	2.1	UG/KG	U	U	
REG	Xylenes, Total	5.2	UG/KG	JB	UJ	F01,F06,K01

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-SS-08

317811 Field Sample Type: Grab Matrix: Surface Soil Collected: 01/31/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	3640	UG/KG	U	U	
REG	1,2-Dichlorobenzene	3640	UG/KG	U	U	
REG	1,3-Dichlorobenzene	3640	UG/KG	U	U	
REG	1,4-Dichlorobenzene	3640	UG/KG	U	U	
REG	2,2'-oxybis (1-chloropropane)	3640	UG/KG	U	U	
REG	2,4,5-Trichlorophenol	9100	UG/KG	U	U	
REG	2,4,6-Trichlorophenol	3640	UG/KG	U	U	
REG	2,4-Dichlorophenol	3640	UG/KG	U	U	
REG	2,4-Dimethylphenol	3640	UG/KG	U	U	
REG	2,4-Dinitrophenol	9100	UG/KG	U	U	
REG	2,4-Dinitrotoluene	3640	UG/KG	U	U	
REG	2,6-Dinitrotoluene	3640	UG/KG	U	U	
REG	2-Chloronaphthalene	3640	UG/KG	U	U	
REG	2-Chlorophenol	3640	UG/KG	U	U	
REG	2-Methylnaphthalene	3640	UG/KG	U	UJ	C05
REG	2-Methylphenol	3640	UG/KG	U	U	
REG	2-Nitroaniline	9100	UG/KG	U	U	
REG	2-Nitrophenol	3640	UG/KG	U	U	
REG	3,3'-Dichlorobenzidine	7280	UG/KG	U	U	
REG	3-Nitroaniline	9100	UG/KG	U	U	
REG	4,6-Dinitro-o-Cresol	9100	UG/KG	U	U	
REG	4-Bromophenyl-phenyl Ether	3640	UG/KG	U	U	
REG	4-Chloroaniline	3640	UG/KG	U	U	
REG	4-Chlorophenyl-phenylether	3640	UG/KG	U	U	
REG	4-Methylphenol	3640	UG/KG	U	U	
REG	4-Nitroaniline	9100	UG/KG	U	U	
REG	4-Nitrophenol	9100	UG/KG	U	U	
REG	4-chloro-3-methylphenol	3640	UG/KG	U	U	
REG	Acenaphthene	3640	UG/KG	U	U	
REG	Acenaphthylene	3640	UG/KG	U	U	
REG	Anthracene	3640	UG/KG	U	U	
REG	Benzo(a)anthracene	8930	UG/KG	=	=	
REG	Benzo(a)pyrene	8650	UG/KG	=	=	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station: 31-SS-08

317811

Field Sample Type: Grab

Matrix: Surface Soil

Collected: 01/31/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Benzo(b)fluoranthene	9860	UG/KG		=	
REG	Benzo(g,h,i)perylene	4130	UG/KG		=	
REG	Benzo(k)fluoranthene	4420	UG/KG		=	
REG	Bis(2-chloroethoxy)methane	3640	UG/KG	U	U	
REG	Bis(2-chloroethyl)ether	3640	UG/KG	U	U	
REG	Bis(2-ethylhexyl)phthalate	3640	UG/KG	U	U	
REG	Butyl Benzyl Phthalate	3640	UG/KG	U	U	
REG	Carbazole	3640	UG/KG	U	U	
REG	Chrysene	17700	UG/KG		J	C05
REG	Di-n-butyl Phthalate	3640	UG/KG	U	U	
REG	Di-n-octyl Phthalate	3640	UG/KG	U	U	
REG	Dibenzo(a,h)anthracene	3640	UG/KG	U	U	
REG	Dibenzofuran	3640	UG/KG	U	U	
REG	Diethyl Phthalate	3640	UG/KG	U	U	
REG	Dimethyl Phthalate	3640	UG/KG	U	U	
REG	Fluoranthene	18900	UG/KG		=	
REG	Fluorene	3640	UG/KG	U	U	
REG	Hexachlorobenzene	3640	UG/KG	U	U	
REG	Hexachlorobutadiene	3640	UG/KG	U	U	
REG	Hexachlorocyclopentadiene	3640	UG/KG	U	U	
REG	Hexachloroethane	3640	UG/KG	U	U	
REG	Indeno(1,2,3-cd)pyrene	4560	UG/KG		=	
REG	Isophorone	3640	UG/KG	U	U	
REG	N-Nitroso-di-n-propylamine	3640	UG/KG	U	U	
REG	N-Nitrosodiphenylamine	3640	UG/KG	U	U	
REG	Naphthalene	3640	UG/KG	U	U	
REG	Nitrobenzene	3640	UG/KG	U	U	
REG	Pentachlorophenol	9100	UG/KG	U	U	
REG	Phenanthrene	29900	UG/KG		J	C05
REG	Phenol	3640	UG/KG	U	U	
REG	Pyrene	30100	UG/KG		=	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5.5	UG/KG	U	U	
REG	1,1,2,2-Tetrachloroethane	5.5	UG/KG	U	R	K02
REG	1,1,2-Trichloroethane	5.5	UG/KG	U	U	
REG	1,1-Dichloroethane	5.5	UG/KG	U	U	
REG	1,1-Dichloroethene	5.5	UG/KG	U	U	
REG	1,2-Dichloroethane	5.5	UG/KG	U	U	
REG	1,2-Dichloroethene	5.5	UG/KG	U	U	
REG	1,2-Dichloropropane	5.5	UG/KG	U	U	
REG	1,3-cis-Dichloropropene	5.5	UG/KG	U	U	
REG	1,3-trans-Dichloropropene	5.5	UG/KG	U	U	
REG	2-Butanone	11	UG/KG	U	U	
REG	2-Hexanone	11	UG/KG	U	UJ	K01
REG	4-Methyl-2-pentanone	11	UG/KG	U	U	
REG	Acetone	11	UG/KG	U	R	C01,C04,C05
REG	Benzene	5.5	UG/KG	U	U	
REG	Bromodichloromethane	5.5	UG/KG	U	U	
REG	Bromoform	5.5	UG/KG	U	UJ	K01
REG	Bromomethane	11	UG/KG	U	U	
REG	Carbon Disulfide	5.5	UG/KG	U	U	
REG	Carbon Tetrachloride	5.5	UG/KG	U	U	
REG	Chlorobenzene	5.5	UG/KG	U	UJ	K01
REG	Chloroethane	11	UG/KG	U	U	
REG	Chloroform	5.5	UG/KG	U	U	
REG	Chloromethane	11	UG/KG	U	U	
REG	Dibromochloromethane	5.5	UG/KG	U	UJ	K01
REG	Ethylbenzene	5.5	UG/KG	U	UJ	K01
REG	Methylene Chloride	8.7	UG/KG	B	UJ	C02,F01,F07
REG	Styrene	5.5	UG/KG	U	UJ	K01
REG	Tetrachloroethene	5.5	UG/KG	U	UJ	K01
REG	Toluene	208	UG/KG	EB	J	F08,N03
REG	Trichloroethene	5.5	UG/KG	U	U	
REG	Vinyl Chloride	2.2	UG/KG	U	U	
REG	Xylenes, Total	5.5	UG/KG	U	UJ	K01

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-SS-09

317911

0.0 - 1.0 FT

Field Sample Type: Grab

Matrix: Surface Soil

Collected: 01/31/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
DIL	1,2,4-Trichlorobenzene	3600	UG/KG	U	U	
DIL	1,2-Dichlorobenzene	3600	UG/KG	U	U	
DIL	1,3-Dichlorobenzene	3600	UG/KG	U	U	
DIL	1,4-Dichlorobenzene	3600	UG/KG	U	U	
DIL	2,2'-oxybis (1-chloropropane)	3600	UG/KG	U	U	
DIL	2,4,5-Trichlorophenol	9000	UG/KG	U	U	
DIL	2,4,6-Trichlorophenol	3600	UG/KG	U	U	
DIL	2,4-Dichlorophenol	3600	UG/KG	U	U	
DIL	2,4-Dimethylphenol	3600	UG/KG	U	U	
DIL	2,4-Dinitrophenol	9000	UG/KG	U	U	
DIL	2,4-Dinitrotoluene	3600	UG/KG	U	U	
DIL	2,6-Dinitrotoluene	3600	UG/KG	U	U	
DIL	2-Chloronaphthalene	3600	UG/KG	U	U	
DIL	2-Chlorophenol	3600	UG/KG	U	U	
DIL	2-Methylnaphthalene	3600	UG/KG	U	UJ	C05
DIL	2-Methylphenol	3600	UG/KG	U	U	
DIL	2-Nitroaniline	9000	UG/KG	U	U	
DIL	2-Nitrophenol	3600	UG/KG	U	U	
DIL	3,3'-Dichlorobenzidine	7200	UG/KG	U	U	
DIL	3-Nitroaniline	9000	UG/KG	U	U	
DIL	4,6-Dinitro-o-Cresol	9000	UG/KG	U	U	
DIL	4-Bromophenyl-phenyl Ether	3600	UG/KG	U	U	
DIL	4-Chloroaniline	3600	UG/KG	U	U	
DIL	4-Chlorophenyl-phenylether	3600	UG/KG	U	U	
DIL	4-Methylphenol	3600	UG/KG	U	U	
DIL	4-Nitroaniline	9000	UG/KG	U	U	
DIL	4-Nitrophenol	9000	UG/KG	U	U	
DIL	4-chloro-3-methylphenol	3600	UG/KG	U	U	
DIL	Acenaphthene	3600	UG/KG	U	U	
DIL	Acenaphthylene	3600	UG/KG	U	U	
DIL	Anthracene	3600	UG/KG	U	U	
DIL	Benzo(a)anthracene	5210	UG/KG	D	=	
DIL	Benzo(a)pyrene	6030	UG/KG	D	=	
DIL	Benzo(b)fluoranthene	8680	UG/KG	D	=	
DIL	Benzo(g,h,i)perylene	3330	UG/KG	DJ	J	
DIL	Benzo(k)fluoranthene	3600	UG/KG	U	U	
DIL	Bis(2-chloroethoxy)methane	3600	UG/KG	U	U	
DIL	Bis(2-chloroethyl)ether	3600	UG/KG	U	U	
DIL	Bis(2-ethylhexyl)phthalate	16900	UG/KG	D	J	C05
DIL	Butyl Benzyl Phthalate	3600	UG/KG	U	U	
DIL	Carbazole	3600	UG/KG	U	U	
DIL	Chrysene	9050	UG/KG	D	J	C05
DIL	Di-n-butyl Phthalate	3600	UG/KG	U	U	
DIL	Di-n-octyl Phthalate	3600	UG/KG	U	U	
DIL	Dibenzo(a,h)anthracene	3600	UG/KG	U	U	
DIL	Dibenzofuran	3600	UG/KG	U	U	
DIL	Diethyl Phthalate	3600	UG/KG	U	U	
DIL	Dimethyl Phthalate	3600	UG/KG	U	U	
DIL	Fluoranthene	9280	UG/KG	D	=	
DIL	Fluorene	3600	UG/KG	U	U	
DIL	Hexachlorobenzene	3600	UG/KG	U	U	
DIL	Hexachlorobutadiene	3600	UG/KG	U	U	
DIL	Hexachlorocyclopentadiene	3600	UG/KG	U	U	
DIL	Hexachloroethane	3600	UG/KG	U	U	
DIL	Indeno(1,2,3-cd)pyrene	3350	UG/KG	DJ	J	
DIL	Isophorone	3600	UG/KG	U	U	
DIL	N-Nitroso-di-n-propylamine	3600	UG/KG	U	U	
DIL	N-Nitrosodiphenylamine	3600	UG/KG	U	U	
DIL	Naphthalene	3600	UG/KG	U	U	
DIL	Nitrobenzene	3600	UG/KG	U	U	
DIL	Pentachlorophenol	9000	UG/KG	U	U	
DIL	Phenanthrene	3600	UG/KG	U	U	
DIL	Phenol	3600	UG/KG	U	U	
DIL	Pyrene	12300	UG/KG	D	=	

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,2,4-Trichlorobenzene	1440	UG/KG	U	U	
REG	1,2-Dichlorobenzene	1440	UG/KG	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station: 31-SS-09

317911

0.0 - 1.0 FT

Field Sample Type: Grab

Matrix: Surface Soil

Collected: 01/31/1998

Sample Type	Semi-Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,3-Dichlorobenzene	1440	UG/KG	U	U	
REG	1,4-Dichlorobenzene	1440	UG/KG	U	U	
REG	2,2'-oxybis (1-chloropropane)	1440	UG/KG	U	U	
REG	2,4,5-Trichlorophenol	3600	UG/KG	U	U	
REG	2,4,6-Trichlorophenol	1440	UG/KG	U	U	
REG	2,4-Dichlorophenol	1440	UG/KG	U	U	
REG	2,4-Dimethylphenol	1440	UG/KG	U	U	
REG	2,4-Dinitrophenol	3600	UG/KG	U	U	
REG	2,4-Dinitrotoluene	1440	UG/KG	U	U	
REG	2,6-Dinitrotoluene	1440	UG/KG	U	U	
REG	2-Chloronaphthalene	1440	UG/KG	U	U	
REG	2-Chlorophenol	1440	UG/KG	U	U	
REG	2-Methylnaphthalene	1440	UG/KG	U	UJ	C05
REG	2-Methylphenol	1440	UG/KG	U	U	
REG	2-Nitroaniline	3600	UG/KG	U	U	
REG	2-Nitrophenol	1440	UG/KG	U	U	
REG	3,3'-Dichlorobenzidine	2880	UG/KG	U	U	
REG	3-Nitroaniline	3600	UG/KG	U	U	
REG	4,6-Dinitro-o-Cresol	3600	UG/KG	U	U	
REG	4-Bromophenyl-phenyl Ether	1440	UG/KG	U	U	
REG	4-Chloroaniline	1440	UG/KG	U	U	
REG	4-Chlorophenyl-phenylether	1440	UG/KG	U	U	
REG	4-Methylphenol	1440	UG/KG	U	U	
REG	4-Nitroaniline	3600	UG/KG	U	U	
REG	4-Nitrophenol	3600	UG/KG	U	U	
REG	4-chloro-3-methylphenol	1440	UG/KG	U	U	
REG	Acenaphthene	1440	UG/KG	U	U	
REG	Acenaphthylene	1370	UG/KG	J	J	
REG	Anthracene	1440	UG/KG	U	U	
REG	Benzo(a)anthracene	5770	UG/KG		=	
REG	Benzo(a)pyrene	5100	UG/KG		=	
REG	Benzo(b)fluoranthene	7780	UG/KG		=	
REG	Benzo(g,h,i)perylene	2840	UG/KG		=	
REG	Benzo(k)fluoranthene	1440	UG/KG	U	U	
REG	Bis(2-chloroethoxy)methane	1440	UG/KG	U	U	
REG	Bis(2-chloroethyl)ether	1440	UG/KG	U	U	
REG	Bis(2-ethylhexyl)phthalate	16900	UG/KG	D	J	C05
REG	Butyl Benzyl Phthalate	1440	UG/KG	U	U	
REG	Carbazole	1440	UG/KG	U	U	
REG	Chrysene	10400	UG/KG		J	C05
REG	Di-n-butyl Phthalate	1440	UG/KG	U	U	
REG	Di-n-octyl Phthalate	1440	UG/KG	U	U	
REG	Dibenzo(a,h)anthracene	871	UG/KG	J	J	
REG	Dibenzofuran	1440	UG/KG	U	U	
REG	Diethyl Phthalate	1440	UG/KG	U	U	
REG	Dimethyl Phthalate	1440	UG/KG	U	U	
REG	Fluoranthene	8600	UG/KG		=	
REG	Fluorene	1440	UG/KG	U	U	
REG	Hexachlorobenzene	1440	UG/KG	U	U	
REG	Hexachlorobutadiene	1440	UG/KG	U	U	
REG	Hexachlorocyclopentadiene	1440	UG/KG	U	U	
REG	Hexachloroethane	1440	UG/KG	U	U	
REG	Indeno(1,2,3-cd)pyrene	3090	UG/KG		=	
REG	Isophorone	1440	UG/KG	U	U	
REG	N-Nitroso-di-n-propylamine	1440	UG/KG	U	U	
REG	N-Nitrosodiphenylamine	1440	UG/KG	U	U	
REG	Naphthalene	1440	UG/KG	U	U	
REG	Nitrobenzene	1440	UG/KG	U	U	
REG	Pentachlorophenol	3600	UG/KG	U	U	
REG	Phenanthrene	2570	UG/KG		J	C05
REG	Phenol	1440	UG/KG	U	U	
REG	Pyrene	13200	UG/KG		=	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5.4	UG/KG	U	U	
REG	1,1,2,2-Tetrachloroethane	5.4	UG/KG	U	R	K02
REG	1,1,2-Trichloroethane	5.4	UG/KG	U	U	
REG	1,1-Dichloroethane	5.4	UG/KG	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-SS-09

317911

0.0 - 1.0 FT

Field Sample Type: Grab

Matrix: Surface Soil

Collected: 01/31/1998

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1-Dichloroethene	5.4	UG/KG	U	U	
REG	1,2-Dichloroethane	5.4	UG/KG	U	U	
REG	1,2-Dichloroethene	5.4	UG/KG	U	U	
REG	1,2-Dichloropropane	5.4	UG/KG	U	U	
REG	1,3-cis-Dichloropropene	5.4	UG/KG	U	U	
REG	1,3-trans-Dichloropropene	5.4	UG/KG	U	U	
REG	2-Butanone	10.9	UG/KG	U	U	
REG	2-Hexanone	10.9	UG/KG	U	UJ	K01
REG	4-Methyl-2-pentanone	10.9	UG/KG	U	U	
REG	Acetone	10.9	UG/KG	U	R	C01,C04,C05
REG	Benzene	5.4	UG/KG	U	U	
REG	Bromodichloromethane	5.4	UG/KG	U	U	
REG	Bromoform	5.4	UG/KG	U	UJ	K01
REG	Bromomethane	10.9	UG/KG	U	U	
REG	Carbon Disulfide	5.4	UG/KG	U	U	
REG	Carbon Tetrachloride	5.4	UG/KG	U	U	
REG	Chlorobenzene	5.4	UG/KG	U	UJ	K01
REG	Chloroethane	10.9	UG/KG	U	U	
REG	Chloroform	5.4	UG/KG	U	U	
REG	Chloromethane	10.9	UG/KG	U	U	
REG	Dibromochloromethane	5.4	UG/KG	U	UJ	K01
REG	Ethylbenzene	5.4	UG/KG	U	UJ	K01
REG	Methylene Chloride	7.2	UG/KG	B	UJ	C02,F01,F07
REG	Styrene	5.4	UG/KG	U	UJ	K01
REG	Tetrachloroethene	5.4	UG/KG	U	UJ	K01
REG	Toluene	263	UG/KG	EB	J	F08,N03
REG	Trichloroethene	5.4	UG/KG	U	U	
REG	Vinyl Chloride	2.2	UG/KG	U	U	
REG	Xylenes, Total	5.4	UG/KG	JB	UJ	F01,F06,K01

Location: SWMU 31, DEH Asphalt Tanks
Station : 31-VP-01

314B51

6.0 - 10.0 FT

Field Sample Type: Grab

Matrix: Geo Probe Water

Collected: 01/30/1998

Sample Type	Petroleum Hydrocarbons	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Total Petroleum Hydrocarbons	905	MG/L	=		

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
DIL	1,1,1-Trichloroethane	50	UG/L	U	UJ	A03
DIL	1,1,2,2-Tetrachloroethane	50	UG/L	U	UJ	A03
DIL	1,1,2-Trichloroethane	50	UG/L	U	UJ	A03
DIL	1,1-Dichloroethane	50	UG/L	U	UJ	A03
DIL	1,1-Dichloroethene	50	UG/L	U	UJ	A03
DIL	1,2-Dichloroethane	50	UG/L	U	UJ	A03
DIL	1,2-Dichloroethene	50	UG/L	U	UJ	A03,C05
DIL	1,2-Dichloropropane	50	UG/L	U	UJ	A03
DIL	1,3-cis-Dichloropropene	50	UG/L	U	UJ	A03
DIL	1,3-trans-Dichloropropene	50	UG/L	U	UJ	A03
DIL	2-Butanone	100	UG/L	U	UJ	A03
DIL	2-Hexanone	100	UG/L	U	UJ	A03
DIL	4-Methyl-2-pentanone	100	UG/L	U	UJ	A03
DIL	Acetone	329	UG/L	B	J	A03
DIL	Benzene	20	UG/L	U	UJ	A03
DIL	Bromodichloromethane	50	UG/L	U	UJ	A03
DIL	Bromoform	50	UG/L	U	UJ	A03
DIL	Bromomethane	100	UG/L	U	UJ	A03
DIL	Carbon Disulfide	50	UG/L	U	UJ	A03
DIL	Carbon Tetrachloride	50	UG/L	U	UJ	A03
DIL	Chlorobenzene	50	UG/L	U	UJ	A03
DIL	Chloroethane	100	UG/L	U	UJ	A03
DIL	Chloroform	50	UG/L	U	UJ	A03
DIL	Chloromethane	100	UG/L	U	UJ	A03
DIL	Dibromochloromethane	50	UG/L	U	UJ	A03
DIL	Ethylbenzene	19.7	UG/L	J	J	A03
DIL	Methylene Chloride	26.1	UG/L	B	J	C05,A03

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station: 31-VP-01

314B51

6.0 - 10.0 FT

Field Sample Type: Grab

Matrix: Geo Probe Water

Collected: 01/30/1998

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
DIL	Styrene	50	UG/L	U	UJ	A03
DIL	Tetrachloroethene	50	UG/L	U	UJ	A03
DIL	Toluene	4.4	UG/L	JB	U	A03
DIL	Trichloroethene	50	UG/L	U	UJ	A03
DIL	Vinyl Chloride	20	UG/L	U	UJ	A03
DIL	Xylenes, Total	79.9	UG/L	B	J	A03

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5	UG/L	U	U	
REG	1,1,2,2-Tetrachloroethane	5	UG/L	U	U	
REG	1,1,2-Trichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloroethane	5	UG/L	U	U	
REG	1,2-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloropropane	5	UG/L	U	U	
REG	1,3-cis-Dichloropropene	5	UG/L	U	U	
REG	1,3-trans-Dichloropropene	5	UG/L	U	U	
REG	2-Butanone	18.6	UG/L		J	C05
REG	2-Hexanone	10	UG/L	U	U	
REG	4-Methyl-2-pentanone	10	UG/L	U	U	
REG	Acetone	329	UG/L	D	J	A03
REG	Benzene	1.4	UG/L	J	UJ	N03
REG	Bromodichloromethane	5	UG/L	U	U	
REG	Bromoform	5	UG/L	U	U	
REG	Bromomethane	10	UG/L	U	U	
REG	Carbon Disulfide	5	UG/L	U	U	
REG	Carbon Tetrachloride	5	UG/L	U	U	
REG	Chlorobenzene	5	UG/L	U	U	
REG	Chloroethane	10	UG/L	U	U	
REG	Chloroform	5	UG/L	U	U	
REG	Chloromethane	10	UG/L	U	UJ	C05
REG	Dibromochloromethane	5	UG/L	U	U	
REG	Ethylbenzene	26.7	UG/L		=	
REG	Methylene Chloride	2	UG/L	JB	UJ	F01,F06
REG	Styrene	5	UG/L	U	U	
REG	Tetrachloroethene	5	UG/L	U	U	
REG	Toluene	5.1	UG/L	B	UJ	F12
REG	Trichloroethene	5	UG/L	U	U	
REG	Vinyl Chloride	2	UG/L	U	U	
REG	Xylenes, Total	94.6	UG/L	B	=	

314B52

16.0 - 20.0 FT

Field Sample Type: Grab

Matrix: Geo Probe Water

Collected: 01/30/1998

Sample Type	Petroleum Hydrocarbons	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Total Petroleum Hydrocarbons	0.310	MG/L	U	U	

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5	UG/L	U	U	
REG	1,1,2,2-Tetrachloroethane	5	UG/L	U	U	
REG	1,1,2-Trichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloroethane	5	UG/L	U	U	
REG	1,2-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloropropane	5	UG/L	U	U	
REG	1,3-cis-Dichloropropene	5	UG/L	U	U	
REG	1,3-trans-Dichloropropene	5	UG/L	U	U	
REG	2-Butanone	10	UG/L	U	U	
REG	2-Hexanone	10	UG/L	U	U	
REG	4-Methyl-2-pentanone	10	UG/L	U	U	
REG	Acetone	10	UG/L	U	U	
REG	Benzene	2	UG/L	U	U	
REG	Bromodichloromethane	5	UG/L	U	U	
REG	Bromoform	5	UG/L	U	U	

Ft. Stewart 16 SWMU

Location: SWMU 31, DEH Asphalt Tanks
Station: 31-VP-01

314B52 16.0 -20.0 FT Field Sample Type: Grab Matrix: Geo Probe Water Collected: 01/30/1998

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Bromomethane	10	UG/L	U	U	
REG	Carbon Disulfide	5	UG/L	U	U	
REG	Carbon Tetrachloride	5	UG/L	U	U	
REG	Chlorobenzene	5	UG/L	U	U	
REG	Chloroethane	10	UG/L	U	U	
REG	Chloroform	5	UG/L	U	U	
REG	Chloromethane	10	UG/L	U	UJ	C05
REG	Dibromochloromethane	5	UG/L	U	U	
REG	Ethylbenzene	1.2	UG/L	J	UJ	N03
REG	Methylene Chloride	2	UG/L	JB	UJ	F01,F06
REG	Styrene	5	UG/L	U	U	
REG	Tetrachloroethene	5	UG/L	U	U	
REG	Toluene	0.6	UG/L	JB	UJ	F12
REG	Trichloroethene	5	UG/L	U	U	
REG	Vinyl Chloride	2	UG/L	U	U	
REG	Xylenes, Total	5.3	UG/L	B	=	

314B53 26.0 -30.0 FT Field Sample Type: Grab Matrix: Geo Probe Water Collected: 01/30/1998

Sample Type	Petroleum Hydrocarbons	Result	Units	Qualifiers Lab	Data	Validation Code
REG	Total Petroleum Hydrocarbons	1.31	MG/L	=		

Sample Type	Volatile Organics	Result	Units	Qualifiers Lab	Data	Validation Code
REG	1,1,1-Trichloroethane	5	UG/L	U	U	
REG	1,1,2,2-Tetrachloroethane	5	UG/L	U	U	
REG	1,1,2-Trichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethane	5	UG/L	U	U	
REG	1,1-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloroethane	5	UG/L	U	U	
REG	1,2-Dichloroethene	5	UG/L	U	U	
REG	1,2-Dichloropropane	5	UG/L	U	U	
REG	1,3-cis-Dichloropropene	5	UG/L	U	U	
REG	1,3-trans-Dichloropropene	5	UG/L	U	U	
REG	2-Butanone	10	UG/L	U	U	
REG	2-Hexanone	10	UG/L	U	U	
REG	4-Methyl-2-pentanone	10	UG/L	U	U	
REG	Acetone	26.2	UG/L	B	UJ	C05,F12
REG	Benzene	0.45	UG/L	J	UJ	N03
REG	Bromodichloromethane	5	UG/L	U	U	
REG	Bromoform	5	UG/L	U	U	
REG	Bromomethane	10	UG/L	U	U	
REG	Carbon Disulfide	5	UG/L	U	U	
REG	Carbon Tetrachloride	5	UG/L	U	U	
REG	Chlorobenzene	5	UG/L	U	U	
REG	Chloroethane	10	UG/L	U	U	
REG	Chloroform	5	UG/L	U	U	
REG	Chloromethane	10	UG/L	U	UJ	C05
REG	Dibromochloromethane	5	UG/L	U	U	
REG	Ethylbenzene	3.5	UG/L	J	J	
REG	Methylene Chloride	2	UG/L	U	U	
REG	Styrene	5	UG/L	U	U	
REG	Tetrachloroethene	5	UG/L	U	U	
REG	Toluene	1.2	UG/L	JB	UJ	F12
REG	Trichloroethene	5	UG/L	U	U	
REG	Vinyl Chloride	2	UG/L	U	U	
REG	Xylenes, Total	16	UG/L	B	=	