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FUEL DISTRIBUTION SYSTEM FOR CONTAMINATION ASSESSMENT REPORT ADDENDUM CNC CHARLESTON SC

03/16/2001

ENSAFE INC

FUEL DISTRIBUTION SYSTEM
CONTAMINATION ASSESSMENT REPORT ADDENDUM
CHARLESTON NAVAL COMPLEX
CHARLESTON, SC

SOUTHDIV
CONTRACT NUMBER: N62467-89-D-0318

Prepared for:

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORTH CHARLESTON, SOUTH CAROLINA

Prepared by:

ENSAFE INC.
313 WINGO WAY
MOUNT PLEASANT, SOUTH CAROLINA 29464

The Contractor, EnSafe Inc., hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0318 is complete, accurate, and complies with all requirements of the contract.

Date: March 16, 2001

Signature:

Name: Todd Haverkost, P.G.
Title: Task Order Manager

GERALD T. HAVERKOST
REGISTERED
PROFESSIONAL GEOLOGIST
NO. 2090
SOUTH CAROLINA

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Tank Program

Executive Summary

This addendum to the *Fuel Distribution System Contamination Assessment Report* (FDS CAR) (EnSafe, September 10, 1998) discusses the investigation of Areas 19, 20, and 21 of the Charleston Naval Complex (CNC) FDS. These sites were investigated as a follow-on to Phases I and II of the FDS investigation, which were conducted to address impacts from petroleum spills associated with operation of the pipelines and storage tanks of the FDS. Phases I and II covered FDS Areas 1 through 18. Area 19 was investigated to address concerns which were later discovered during the removal action and confirmatory sampling at Facility 148, a tank used to hold fuel oil from the pipe system temporarily during pipeline repairs. The Area 20 investigation addressed concerns discovered during removal of a portion of the 18-inch-diameter abandoned fuel pipeline and associated contaminated soil at AOC 626. Area 21 was investigated to address Resource Conservation and Recovery Act (RCRA) and petroleum concerns at the Hobson Fuel Farm to facilitate property transfer and subsequent redevelopment of the site into an approximately 250,000-square-foot warehouse.

Subsurface investigations at each site consisted of using direct push technology (DPT) to collect soil and groundwater samples. Only subsurface soil samples were collected at Areas 19 and 20, since the concern was the subsurface soil adjacent to buried pipelines. Surface and subsurface soil was sampled at Area 21 since the pipelines and valves were at the surface. Once the soil and groundwater contamination was delineated at Areas 19 and 20, permanent shallow groundwater monitoring wells were installed to assess the potential for contaminants migrating offsite. No permanent wells were installed at Area 21 since this area has adequate coverage from wells at adjacent and nearby sites. DPT soil and groundwater samples were analyzed for volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs). Monitoring well samples were analyzed for VOCs, SVOCs and metals.

The DPT soil and groundwater investigation at Area 19 revealed petroleum-contaminated soil and groundwater on the southwest side of Building 98, near former Facility 148, and on the northeast side of Building 98, where the buried FDS pipelines parallel Hobson Avenue. Area 19 monitoring well results revealed that petroleum-contaminated groundwater is localized near the areas identified during DPT sampling.

Area 20 DPT soil and groundwater sampling revealed petroleum-contaminated soil and groundwater related to the fuel pipeline that was removed as part of an interim measure (IM) at AOC 626, as well as buried FDS pipelines that parallel Hobson Avenue near the site. Area 20 monitoring well results revealed that petroleum-contaminated groundwater is localized near the areas identified during DPT sampling.

For Area 21, surface soil exhibited no petroleum-related or RCRA constituents that might be a concern in the area targeted for redevelopment (Tanks 3916 and 3917). Soil around Tanks 3900E and 3900F appears to have been impacted by petroleum and RCRA constituents. Non-Risk-Based Corrective Action (RBCA) parameters which exceed the Risk-Based Concentrations (RBCs) are most likely related to the asphalt that lines the bermed area, not unidentified sources. Subsurface soil was only a potential concern at one sample location (HFFSP008), where petroleum-related SVOCs, primarily naphthalene, were detected at concentrations that may leach to shallow groundwater. This area is a single-point exceedance that has been fully delineated. Groundwater samples collected adjacent to location HFFSP008 did not detect naphthalene. DPT groundwater sampling at Area 21 also revealed the non-RBCA chlorinated solvent 1,2-Dichloroethene (total) at temporary well point HFFGP010, although a second sampling revealed no detection of 1,2-Dichloroethene (total). Vertical groundwater profiling around this well point revealed no significant VOC detections to a depth of 30 feet.

Current plans call for removing Tanks 3916 and 3917 at Areas 20/21 and building a 250,000-square-foot warehouse over the area. In such a scenario, the footprint of the building and adjacent paved areas will likely cover petroleum-contaminated soil discovered near Tanks 3916 and 3917. This would prevent infiltration of precipitation at the site and help mitigate the potential for further

leaching of parameters to underlying shallow groundwater. Should future expansion of the warehouse complex or other construction extend across Areas 19 and 21, the same effect should occur.

Because contamination is characterized and defined at Areas 19, 20, and 21, no further investigation is recommended at these sites. At Area 19, contaminated soil surrounding former Facility 148 (between Buildings 98 and 172) and near the southeast corner of Building 98 was identified. Excavation of this soil is recommended followed by groundwater monitoring of existing wells and two new wells installed in the source areas to monitor attenuation.

Isolated areas of contaminated soil were identified at Area 20. One area near borings F20SP01906 and F20SP01709, falls in the path of the proposed rail spur to the warehouse. If contaminated soil is impacted by this construction, it will be removed and properly disposed offsite. Monitored attenuation of the soil and groundwater at Area 20 is recommended using the existing wells. If future construction requires the abandonment of pertinent monitoring wells, these may have to be replaced based on the overall monitoring program.

At Area 21, one isolated location of soil contamination was identified and delineated near Tank 3917. Groundwater at this location did not reveal any exceedances of petroleum-related compounds. The proposed warehouse will cover this area and mitigate further potential leaching of contaminants to groundwater. As a result, land use controls are recommended utilizing the proposed new development. Because the potential for contaminants leaching to groundwater currently exists, attenuation monitoring is also recommended using existing wells from Areas 8 and 20.

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ABBREVIATIONS, ACRONYMS, AND SYMBOLS FOR FDS AREAS 19, 20 AND 21

The following abbreviations, acronyms, and units of measurement are used in this report.

AOC	Area of Concern
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene and xylene
CAR	Contamination Assessment Report
CNC	Charleston Naval Complex
CNSY	Charleston Naval Shipyard
CSAP	Comprehensive Sampling and Analysis Plan
DPT	direct push technology
DRO	diesel range organics
E/A&H	EnSafe/Allen & Hoshall
EDB	Ethylene dibromide
FDS	Fuel Distribution System
GRO	gasoline range organics
HFF	Hobson Fuel Farm
IM	interim measure
IR	Installation Restoration

MCL	Maximum Contaminant Level
mg/kg	milligrams per kilogram
MTBE	Methyl tertiary-butyl ether
NFESC	Naval Facilities Engineering Service Center
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyls
PVC	polyvinyl chloride
RBCA	Risk-Based Corrective Action
RBC	Risk-Based Concentration
RBSL	Risk-Based Screening Level
RCRA	Resource Conservation and Recovery Act
RDA	Redevelopment Authority
RFA	RCRA Facility Assessment
SCAPS	Site Characterization and Analysis Penetrometer System
SCDHEC	South Carolina Department of Health and Environmental Control
SPORTENV-DETCHASN	Supervisor of Shipbuilding, Conversion and Repair, USN, Portsmouth Detachment Environmental, Charleston, SC
SSL	soil screening level
SSTL	Site-Specific Target Level
SVOC	semivolatile organic compound
TAL/TCL	Target Analyte List/Target Compound List
TPH	total petroleum hydrocarbons
UST	underground storage tank

VOC	Volatile organic compound
μg/kg	micrograms per kilogram
μg/L	micrograms per liter

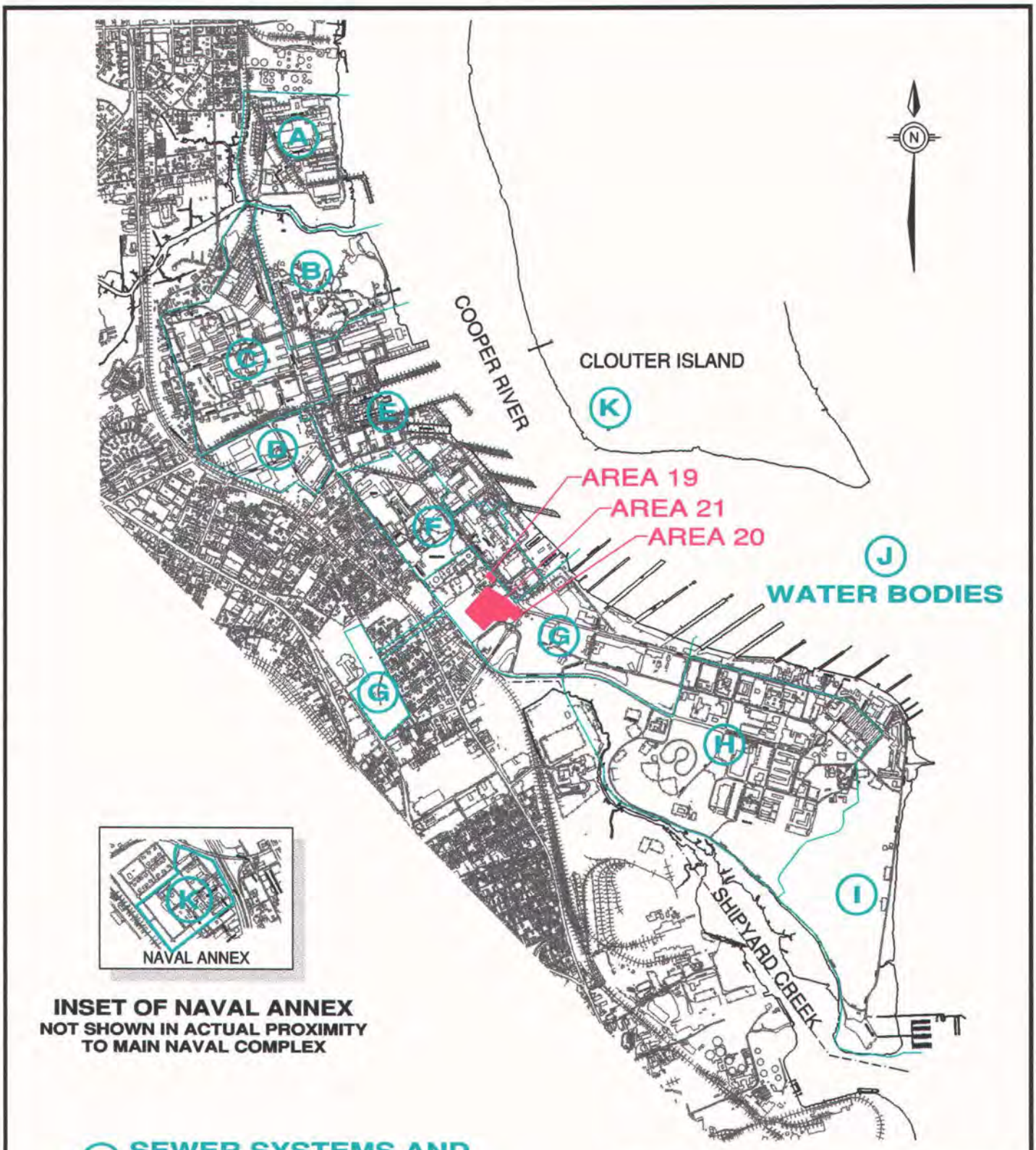
1.0 INTRODUCTION

As part of the U.S. Navy Installation Restoration (IR) Program, this *Fuel Distribution System Contamination Assessment Report Addendum* has been prepared for the Fuel Distribution System (FDS) at Charleston Naval Complex (CNC). This addendum addresses FDS Areas 19, 20, and 21 which were added to the scope of the FDS investigation in 1998, after completion of the field investigation for FDS Areas 1 through 18. During 1999, 2000, and 2001, field investigations were conducted at Areas 19, 20, and 21 to identify impacts to soil and groundwater and to define the extent of free-product contamination, if any, at these sites. Figure 1-1 presents the location of Areas 19, 20, and 21 relative to the CNC.

The *Fuel Distribution System Contamination Assessment Report* (FDS CAR) (EnSafe, September 10, 1998) discusses the objectives, scope and methodology for the CAR, and the history and physical setting for the FDS. That report is applicable to the FDS Areas 19, 20, and 21 assessment. This addendum describes the specific field investigations, presents and discusses the analytical data, and makes appropriate recommendations for Areas 19, 20, and 21.

1.1 Background

In 1996, EnSafe began investigation of the CNC FDS, which focused on areas of petroleum-related contamination associated with specific releases and/or areas of likely release attributable to previous operation of the FDS. The FDS investigation encompassed all buried and aboveground fuel pipelines within the CNC area and associated storage tanks. The phased investigation began with a Phase I Direct Push Technology (DPT) Total Petroleum Hydrocarbons (TPH) soil survey along the various fuel pipelines throughout CNC to identify areas of aggregate petroleum contamination. These biased DPT screening samples were collected from areas most likely to have been impacted (e.g., surface soil where the pipelines and



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2500 1500 500

SCALE IN FEET

FUEL DISTRIBUTION SYSTEM
CONTAMINATION ASSESSMENT
REPORT ADDENDUM
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CHARLESTON, SC

FIGURE 1-1
LOCATION MAP
AREAS 19, 20 & 21

Date: 03/01/01 | DWG Name: 0144C005

valves were at the surface and subsurface soil adjacent to buried pipelines), and were analyzed for TPH diesel range organics (DRO) and gasoline range organics (GRO). Phase I TPH concentrations were compared to the conservative arbitrary screening values of 50 milligrams per kilogram (mg/kg)-DRO/50 micrograms per kilogram (μg/kg)-GRO, and sample locations where results exceeded these values were considered for further investigation under Phase II. A total of 18 areas of petroleum contamination were identified during Phase I and investigated during Phase II. These investigations, discussed in detail in the FDS CAR (EnSafe, September 10, 1998), included areas both inside, adjacent to, and outside Areas 19, 20, and 21. Section 2.8 of this report discusses Phase I and Phase II for the FDS areas closest to Areas 19, 20, and 21 (Areas 8, 11, 12, 13, 14, and 15).

The FDS CAR discusses how Phase II analytical results were compared to the Risk-Based Screening Levels (RBSLs) specified in the South Carolina Department of Health and Environmental Control (SCDHEC) Bureau of Underground Storage Tank (UST) Management Risk-based Corrective Action (RBCA) guidance, *South Carolina Risk-Based Corrective Action for Petroleum Releases* (SCDHEC, January 5, 1998). The SCDHEC RBCA program contains a three-tiered approach to investigating and correcting impacts from petroleum product spills. Tier 1 compares sample results to the RBSLs, which are considered conservative exposure factors. Tier 2 is a risk-based analysis that develops Site-Specific Target Levels (SSTLs), which are corrective action target levels for individual petroleum constituents. Tier 3 is a risk-based analysis for developing values for potential direct and indirect exposure pathways based on site-specific conditions. All FDS investigations have completed a Tier 1 evaluation only.

Surficial soil sample results were compared to the RBSLs for ingestion or dermal contact with surficial soil (Table B6 of the SCDHEC RBCA guidance document). Subsurface soil samples

were compared to the groundwater protection RBSLs for sandy soil, less than 5 feet to groundwater (Table B3 of the SCDHEC RBCA guidance document). Groundwater sample results were compared to the RBSLs for groundwater (Table B1 of the SCDHEC RBCA guidance document). A screening level for TPH is not included in the RBCA RBSLs.

1.2 Objectives

The objectives of the field investigations at Areas 19, 20, and 21 included a focused review of previous investigative findings to determine whether or not these areas have been characterized adequately to satisfy site closeout requirements under the SCDHEC UST program. Field sampling in these areas was performed to confirm the results of earlier sampling efforts, to delineate completely petroleum contamination in soil and groundwater within these areas, and to identify potential Resource Conservation and Recovery Act (RCRA) concerns prior to property transfer. Because RBCA guidance under the UST program contains a specific list of parameters, the analyses were expanded based on site history to include parameters that may be a concern under the RCRA program.

The investigation at Area 21 focused on providing the information necessary for the CNC Project Team to provide feedback to the CNC Redevelopment Authority (RDA) regarding potential environmental concerns about the site of an approximately 250,000-square-foot warehouse proposed for construction at Area 21.

The field investigation included DPT soil (surface and/or subsurface soil interval) and shallow groundwater samples to characterize the nature and extent of soil and groundwater contamination at these sites. Soil samples were analyzed for RBCA-listed volatile organic compound (VOC) and semivolatile organic compound (SVOC) parameters. RBCA-listed VOC

parameters include benzene, toluene, ethylbenzene, and xylenes. RBCA-listed SVOC parameters include naphthalenes (naphthalene and/or total naphthalenes), benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and dibenz(a,h)anthracene. Because metals are not included under the RBCA parameter list for soil, DPT soil samples were not analyzed for metals. Groundwater DPT samples were analyzed for RBCA-listed VOC and SVOC parameters. RBCA-listed VOCs for groundwater include benzene, toluene, ethylbenzene, and xylenes. RBCA-listed SVOCs for groundwater include total polycyclic aromatic hydrocarbons (total PAHs), which includes total concentrations for benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and total naphthalenes. Although metals are included in the RBCA list of parameters for groundwater, DPT groundwater samples were not analyzed for metals since waste oil was not a concern at Areas 19, 20, and 21 and because sample turbidity could not be controlled in order to obtain a sample representative of site conditions. Monitoring well samples were analyzed for VOCs, SVOCs, and metals where appropriate.

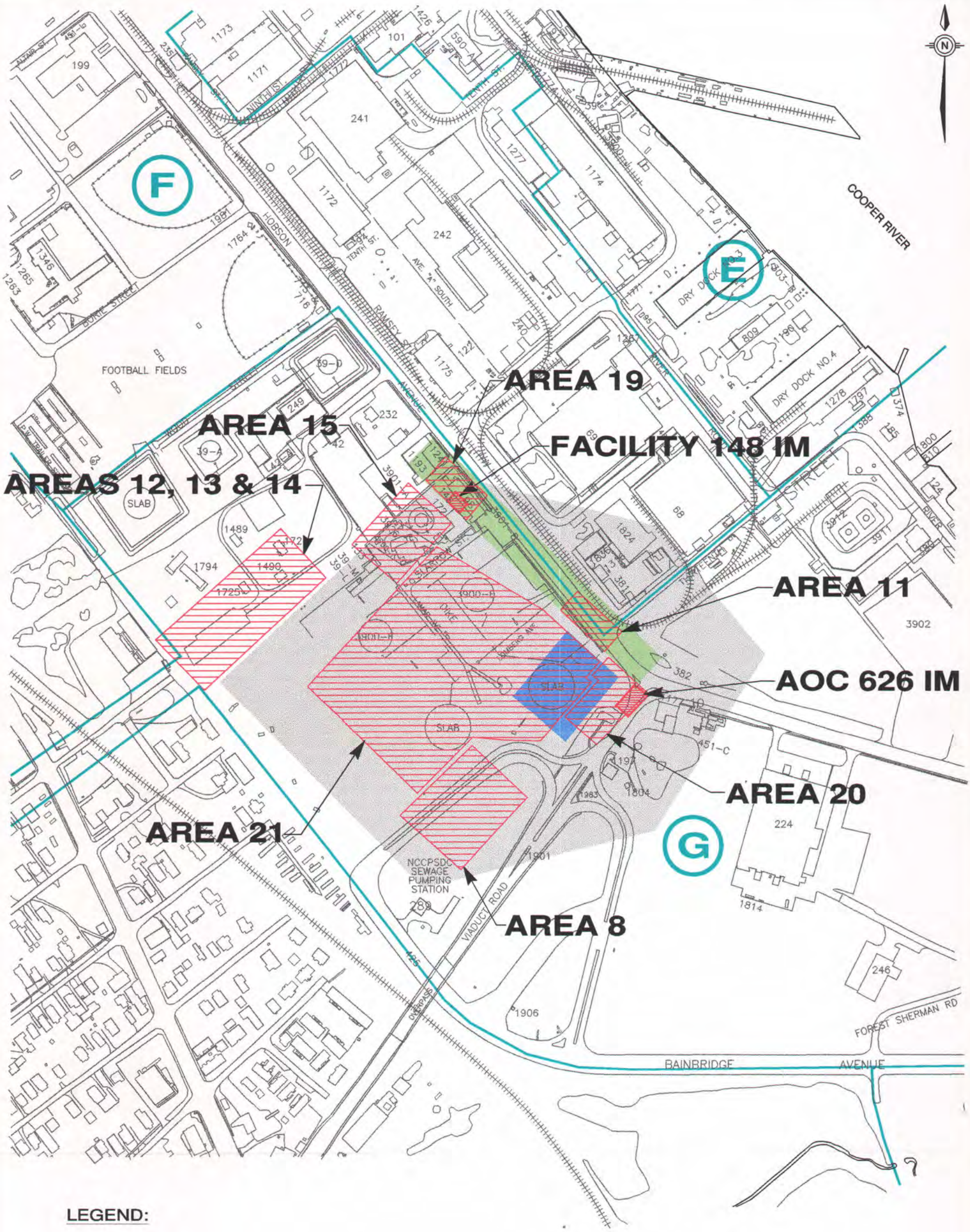
Initial rounds of DPT soil and groundwater sampling at Areas 19, 20, and 21 focused on contamination identified by previous site assessments (see Section 2.0). Subsequent DPT sampling was performed to delineate the extent of contamination around RBSL exceedances.

2.0 PREVIOUS INVESTIGATIONS

This section describes previous investigations conducted within and adjacent to Areas 19, 20, and 21. Sections 2.1 through 2.6 discuss early assessments, studies, and interim measures (IMs) conducted to address environmental issues associated with the FDS in these areas. Sections 2.7 and 2.8 discuss previous investigations conducted by EnSafe within these areas. Figure 2-1 shows the locations of previous investigations performed.

2.1 ESE Assessment

Environmental assessment of an area within the Hobson Fuel Farm (HFF) encompassing Areas 20 and 21 began in 1986 with the site characterization performed by ESE, Inc. ESE sampled soil and shallow groundwater at the site and nearby surface water and sediment. Soil and groundwater samples were analyzed for VOCs, TPH, and PAHs. ESE found PAHs, including some detections which exceeded the appropriate RBSLs, to a depth of 8 feet below ground surface (bgs) over a 48,000-square-foot area where former Tanks 3900G and 3900H stood (see Figure 2-2). TPH concentrations in soil ranged from 146 to 7,280 mg/kg while groundwater TPH detections ranged from 341 to 130,000 micrograms per liter (μg/L). Total PAHs in groundwater ranged from 0.6 to 1,851 μg/L. No VOCs were detected in soil or groundwater. Subsequent groundwater sampling by ESE identified PAHs, including some detections that exceeded their appropriate RBSL (KEMRON, 1990). Figure 2-2 shows the area investigated by ESE, the soil and groundwater sample locations and the approximate area of PAH contamination delineated by ESE during this investigation.



LEGEND:

- FDS CONTAMINATION ASSESSMENT REPORT (ENSAFE)
- TPH SURVEY (S&ME)
- KEMRON/ESE INVESTIGATION
- NFESC SCAPS STUDY

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FIGURE 2-1
LOCATIONS OF
PREVIOUS INVESTIGATIONS

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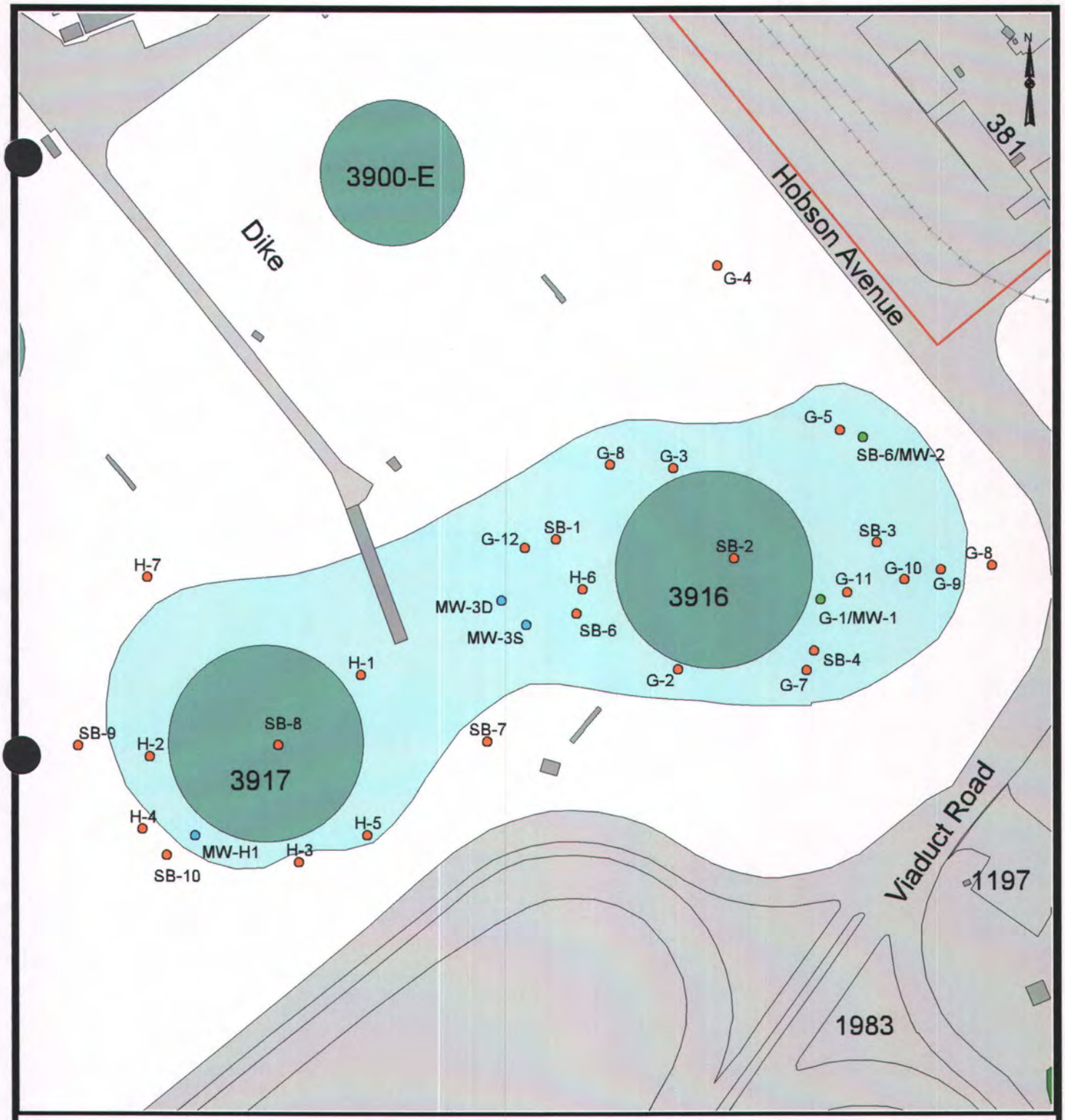

Sample Points
- Soil Boring
- Boring, Well
- Monitoring Well
- Study Zone Boundary
- Railroad
- Trees
- Concrete, Pavement
- Building, Structure
- Storage Tank
- Plume

0 100 Feet

Figure 2-2
ESE INVESTIGATION

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CNC Charleston, South Carolina

Date: 2 March, 2001

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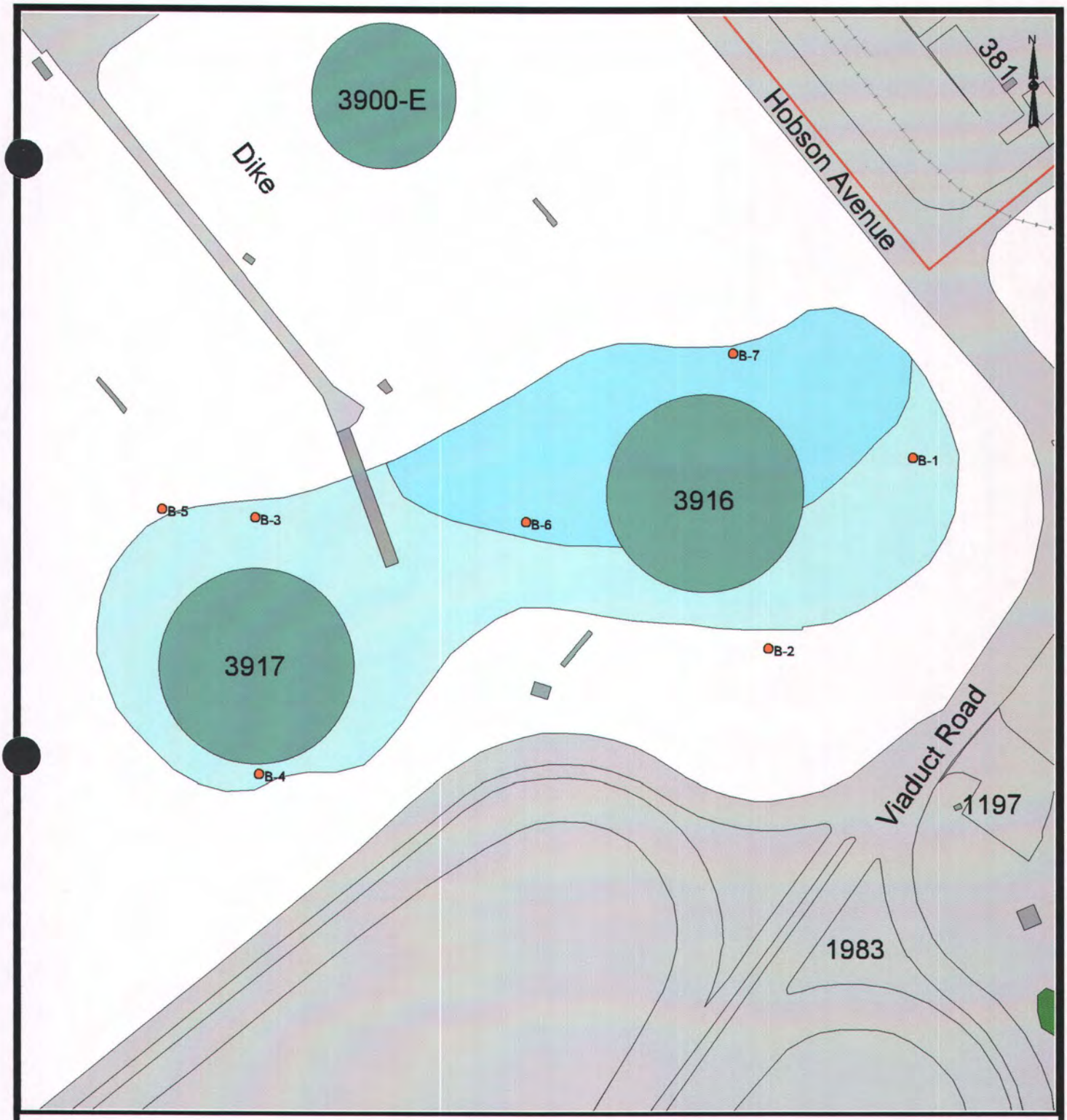
2.2 KEMRON Assessment/Remedial Activities

In 1990, KEMRON conducted further study of the area identified by ESE (Areas 20 and 21) to delineate more closely the horizontal and vertical distribution of contamination in the vicinity of the former Tanks 3900G and 3900H (now 3916 and 3917). Soil and groundwater samples were analyzed for TPH, VOCs and PAHs. The KEMRON study detected TPH and PAHs in soil, and determined that the horizontal extent of contamination around 3900G and 3900H was smaller than originally identified by ESE due to an error in the scaling factor used to calculate area and volume (see Figure 2-3). The vertical extent was also further defined. KEMRON identified impacted soil from 2 to 10 feet bgs. Resampling of site monitoring wells by KEMRON revealed much lower TPH and PAH concentrations than were originally reported by ESE, indicating a lesser impact to groundwater than was previously observed or that some natural attenuation had occurred. No VOCs were detected in this follow-on sampling.

From late 1991 to early 1992, after the demolition of Tanks 3900G and 3900H and prior to the construction of newer Tanks 3916 and 3917, KEMRON conducted a partially successful attempt at in-place land farming. This effort was hampered by severe seasonal rainfall and was suspended when construction began on the new tanks (KEMRON, 1992). Figure 2-3 shows the area investigated by KEMRON and sample locations, and compares the approximate areas of PAH contamination delineated by ESE and KEMRON during these investigations. Although small soil removals from this area have been reported, these are not documented in the KEMRON report.

2.3 S&ME TPH Survey

In May of 1992, S&ME, Inc. was retained by the Navy to conduct a soil TPH survey along a fuel supply line that parallels the south side of Hobson Avenue where it passes Areas 19 and 20. The purpose of the investigation was to determine if petroleum-related contamination exists along the pipeline right-of-way. Soil samples for TPH analysis were collected at the



Sample Points
- Soil Boring
- Study Zone Boundary
- Railroad
- Trees
- Concrete, Pavement
- Building, Structure
- Storage Tank
- Kemeron Plume
- ESE Plume

0 100 Feet

Figure 2-3
KEMERON INVESTIGATION

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CNC Charleston, South Carolina

Date: 2 March, 2001

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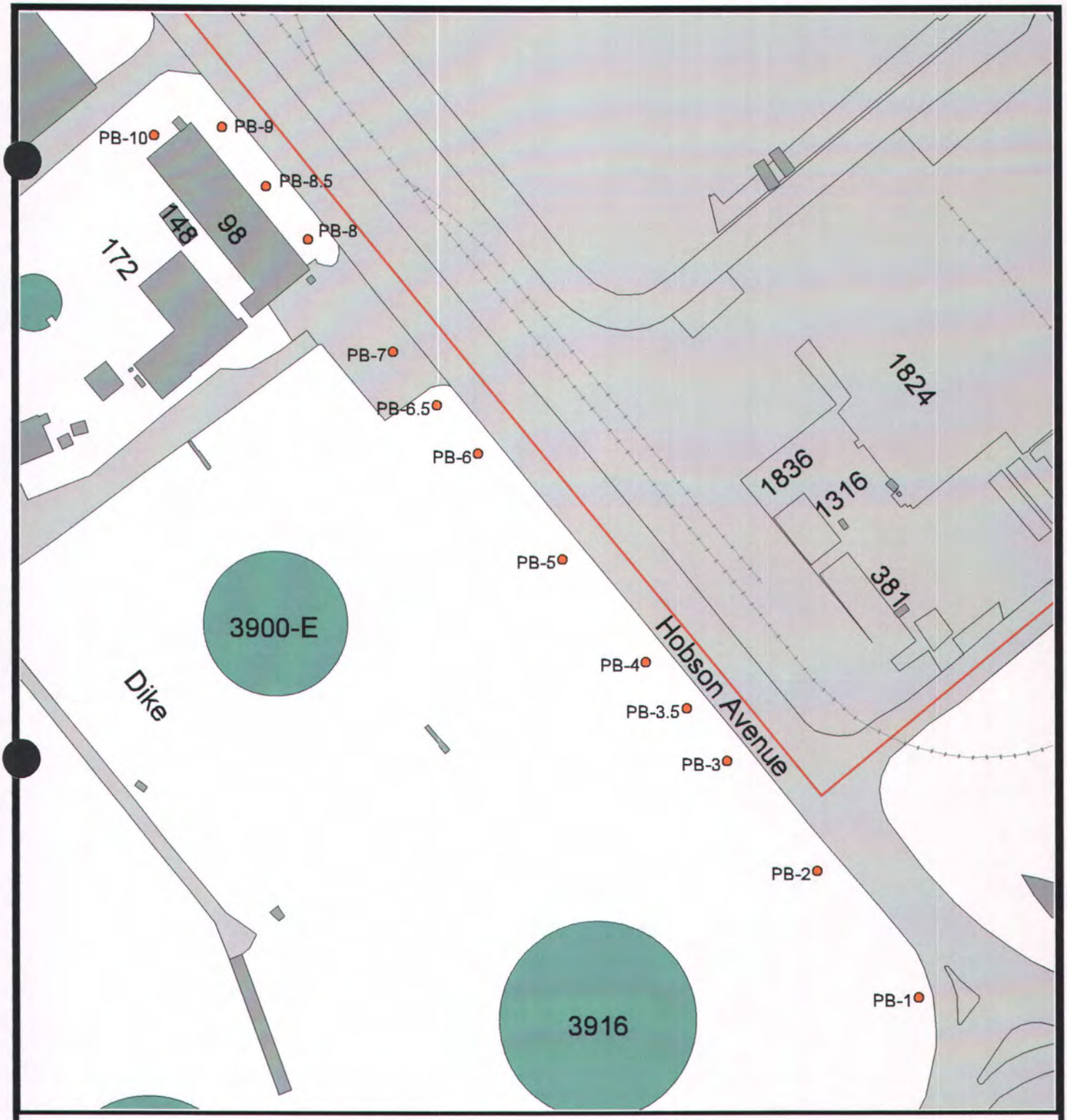
soil-water interface, at approximately 6 feet bgs. A total of 13 samples were collected along the pipeline from the intersection of Hobson Avenue and Viaduct Road to the north side of Building 98. TPH from 65 to 820 mg/kg was detected in three of four samples collected where the pipeline passes closest to Tank 3916. TPH was detected at 170 mg/kg in one of the five samples collected where the pipeline passes closest to Tank 3900E. Two of four samples collected along the northeast and northwest sides of Building 98 revealed subsurface soil TPH concentrations of 690 and 1,000 mg/kg, respectively. TPH was not detected in the other two samples. S&ME's investigation report concluded that soil and groundwater likely were contaminated along this pipeline, and that appropriate abatement procedures should be followed during excavation and dewatering which were to accompany forthcoming repairs (S&ME, May 28, 1992). Figure 2-4 shows the area investigated by S&ME, and the sample locations for this investigation.

2.4 NFESC SCAPS Study

In July of 1995, the Naval Facilities Engineering Service Center (NFESC) performed a site characterization within Area of Concern (AOC) 626 (the Naval Supply Center Fuel Farm, including Areas 19, 20, and 21, and surrounding area investigated under the FDS) using a Site Characterization and Analysis Penetrometer System (SCAPS) rig. SCAPS is a field screening technique that detects petroleum hydrocarbons using laser-induced fluorescence. The objective of the NFESC investigation was to define the extent of PAH contamination in and around the Fuel Farm proper. A total of 33 SCAPS sample points were surveyed. Eight confirmatory soil samples also were collected from depths coinciding with the suspected contamination areas. The confirmatory samples were analyzed for TPH and total recoverable petroleum hydrocarbons. Based on the SCAPS results and confirmation samples, the NFESC determined that only low concentrations of fuel were present at the fuel farm (NFESC, April 1996). Figure 2-5 shows the area investigated by the NFESC, and the sample locations for this investigation.



Sample Points
- Soil Boring
- Study Zone Boundary
- Railroad
- Concrete, Pavement
- Building, Structure
- Storage Tank

0 100 Feet

Figure 2-4
S&ME TPH SURVEY

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CNC Charleston, South Carolina

Date: 2 March, 2001

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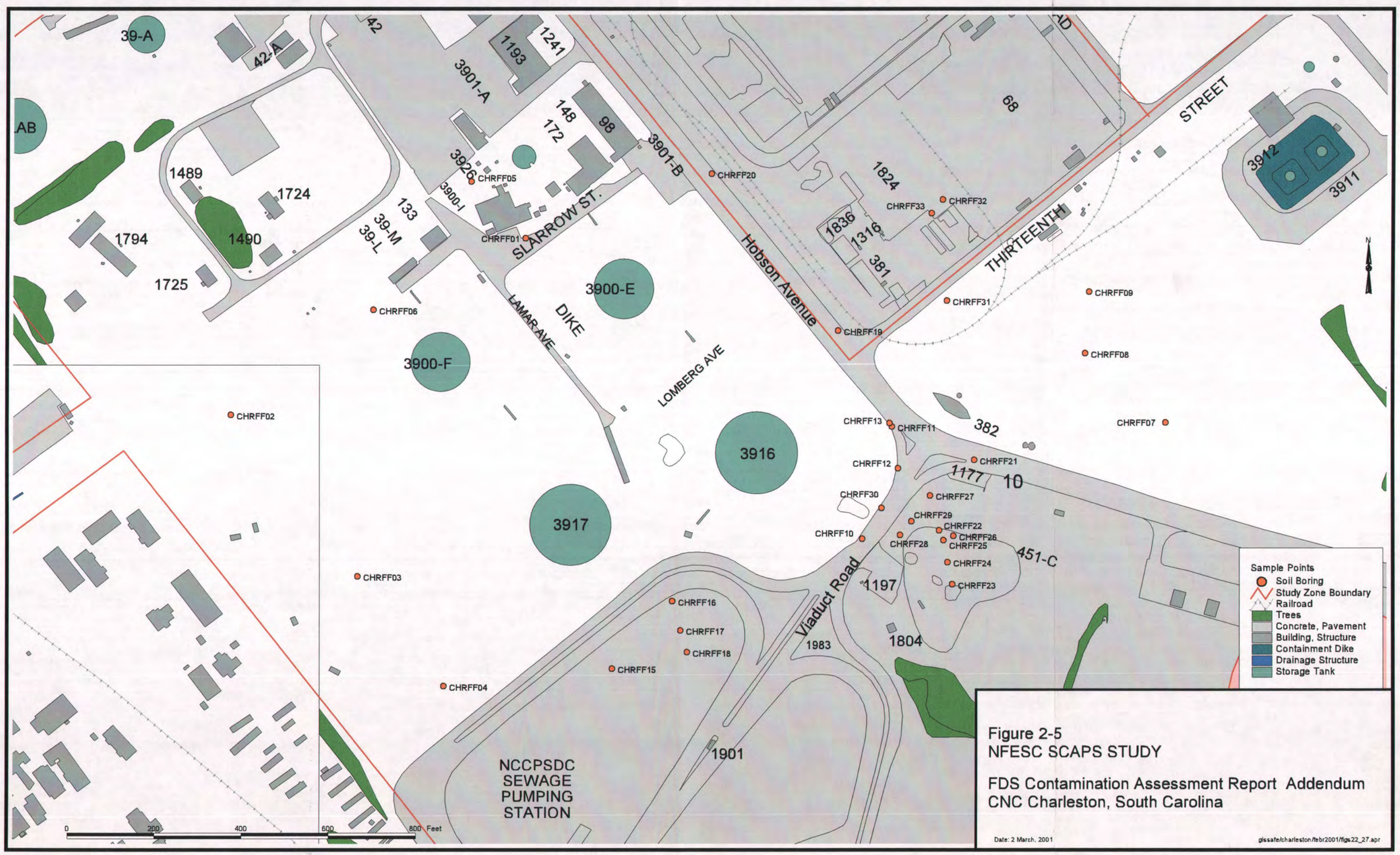

Figure 2-5
NFESC SCAPS STUDY

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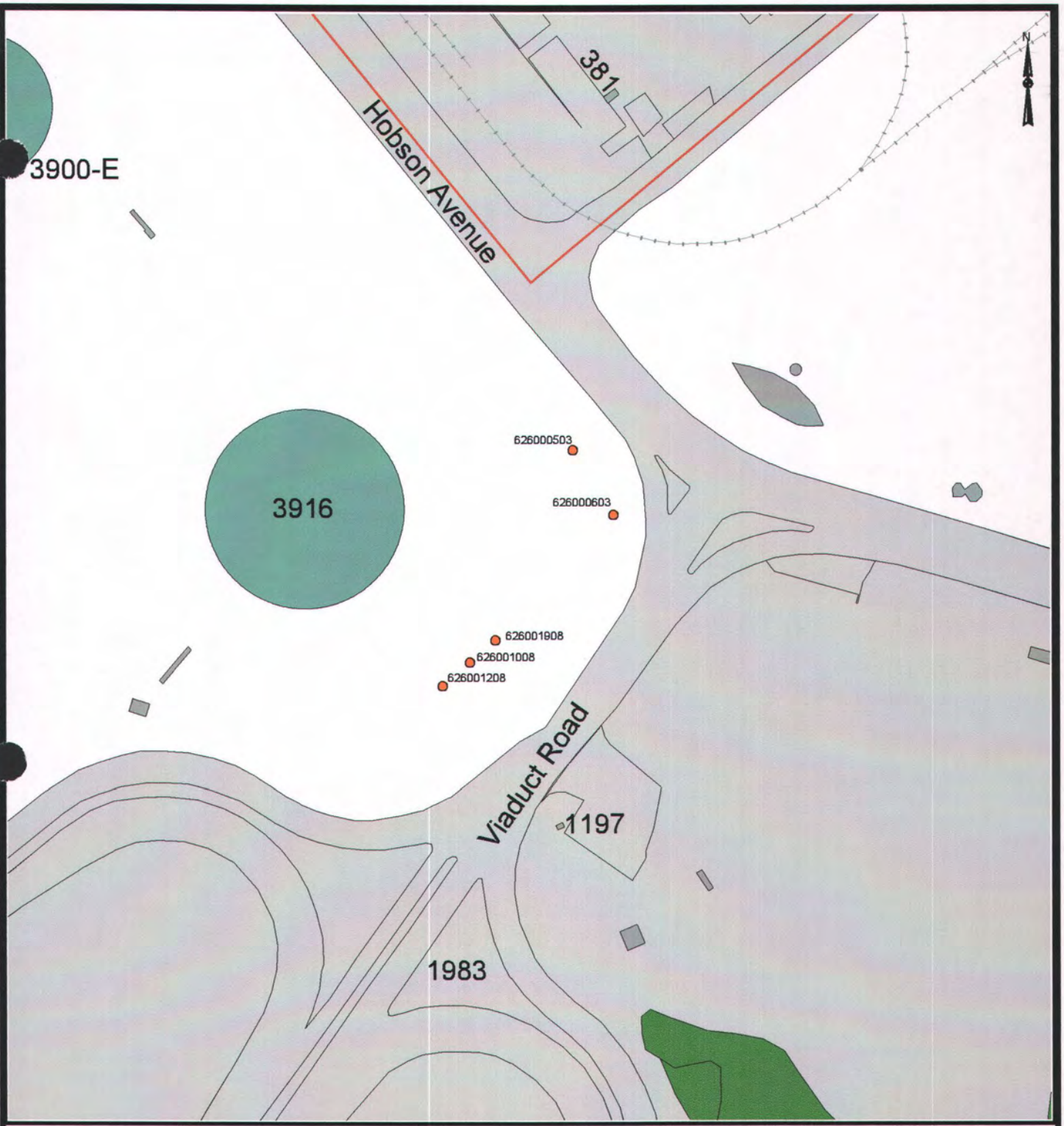
2.5 AOC 626 Interim Measures

In December of 1996, the Supervisor of Shipbuilding, Conversion and Repair, USN, Portsmouth Detachment Environmental, Charleston, SC (SPORTENVDETCHASN) performed an IM southwest of the intersection of Hobson Avenue and Viaduct Road, directly adjacent to Area 20. The objective of this IM was to excavate and remove a portion of the 18-inch-diameter abandoned fuel pipeline buried beneath the site (AOC 626), remove petroleum-saturated soil found during the excavation, and install a free-product recovery system, if required. Initial excavations during this removal action revealed heavily stained soil to 5 feet bgs, with free product leaching from the sides of the open excavation. A total of 229 linear feet of the 18-inch-diameter fuel pipeline was removed from where the pipeline traversed beneath Viaduct Road. Approximately 450 cubic yards of petroleum-contaminated soil were also removed during the IM. Five soil samples were collected from the bottom of the trench after the pipe removal to determine disposal requirements for the removed soil. Sample results showed that the soil was nonhazardous (disposal was still pending at the time the removal report was published). A 200-foot horizontal, perforated polyvinyl chloride (PVC) free-product recovery system was installed, along with PVC vertical standpipes for product recovery. Approximately 40,000 gallons of water mixed with oil was recovered from the site by this system (SPORTENVDETCHASN, May 1997). The FDS CAR (EnSafe, September 10, 1998) reported that Area 20 was in need of additional assessment due to the residual petroleum contamination observed during the pipeline IM. Figure 2-6 shows the area of the pipeline removal at AOC 626.

2.6 Facility 148 Assessment and Closure

Facility 148 is located at Area 19, adjacent to the southwest side of Building 98. In August of 1996, SPORTENVDETCHASN performed an assessment and closure at Facility 148, a tank used to hold fuel oil from the pipe system temporarily during pipeline repairs. The tank had been emptied and cleaned prior to the closure, and contained no residual fuel.



Sample Points
- Soil Boring
- Concrete, Pavement
- Building, Structure
- Storage Tank

0 100 Feet

Figure 2-6
AOC 626 INTERIM MEASURES

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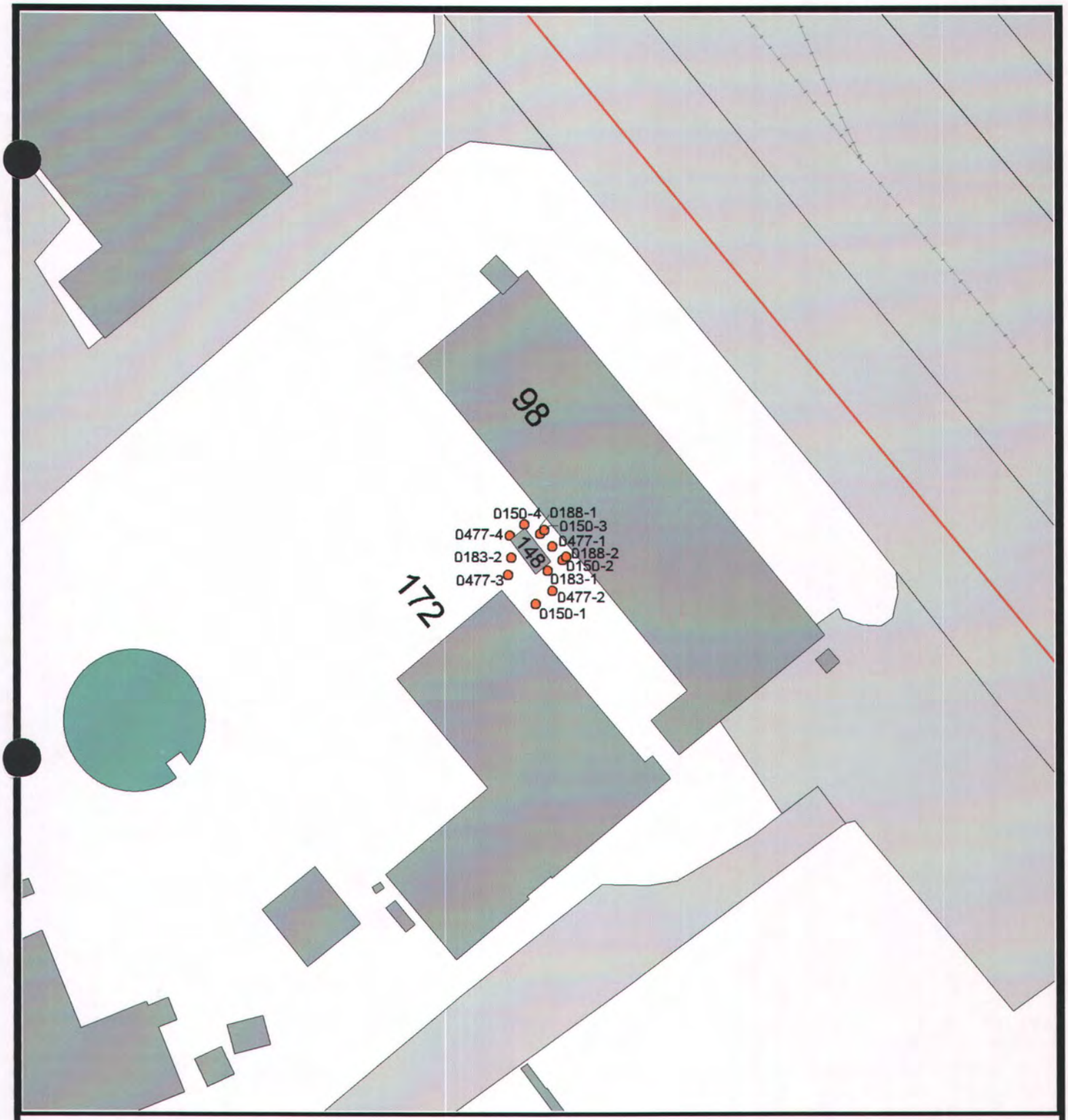
Free product and petroleum-contaminated soil were found during closure activities at Facility 148. Confirmatory samples were analyzed for benzene, toluene, ethylbenzene and xylene (BTEX) constituents and PAHs. Confirmatory sample results revealed naphthalene above the RBSL at locations 0150-2, 0150-4, 0183-1, 0183-2, 0477-2, 0477-3, and 0477-4. Ethylbenzene also was detected above the RBSL at locations 0183-1 and 0183-2. The area most impacted was associated with the Building 98 piping. The excavation was open until July 1997 when the tank pit was backfilled with clean soil (SPORTENVDETCHASN, July 1997). Because of the petroleum contamination observed during the Facility 148 closure and confirmatory sampling, the FDS CAR determined that Area 19 was in need of additional assessment. Figure 2-7 shows the area of the Facility 148 IM, and the confirmatory sample locations for this investigation.

2.7 Zone L, Subzone G Investigation

In 1997, EnSafe began the investigation of Zone L to address possible releases from the CNC railroads and storm water and sanitary sewer systems. Zone L, Subzone G, included some sewer lines which traversed Area 21 between Tanks 3900E and 3900F. Twenty DPT soil and 30 DPT groundwater samples were collected for VOCs, metals, and cyanide. Fourteen hand-auger soil borings advanced during the investigation and two monitoring wells installed at Subzone G were analyzed for VOCs, SVOCs, metals, cyanide, chlorinated pesticides, and polychlorinated biphenyls (PCBs). Most of these sample locations were located outside of Areas 19, 20, and 21. Arsenic and iron exceeded their respective (RBCs) at DPT sample location 037SP003, which lies within Area 20. Two soil borings (037SB003 and 037SB004) advanced northwest of Area 21, near Area 15, had surface soil sample results showing RBCA-listed PAH concentrations in surface soil above their respective RBSLs. No organics were detected in from the two site monitoring wells and no RCRA inorganics exceeded an RBSL at these locations. Figure 2-8 shows the Zone L, Subzone G investigation, and the sample locations for this investigation.



Sample Points
- Soil Boring
- Study Zone Boundary
- Concrete, Pavement
- Building, Structure

0 40 Feet

Figure 2-7
FACILITY 148 ASSESSMENT

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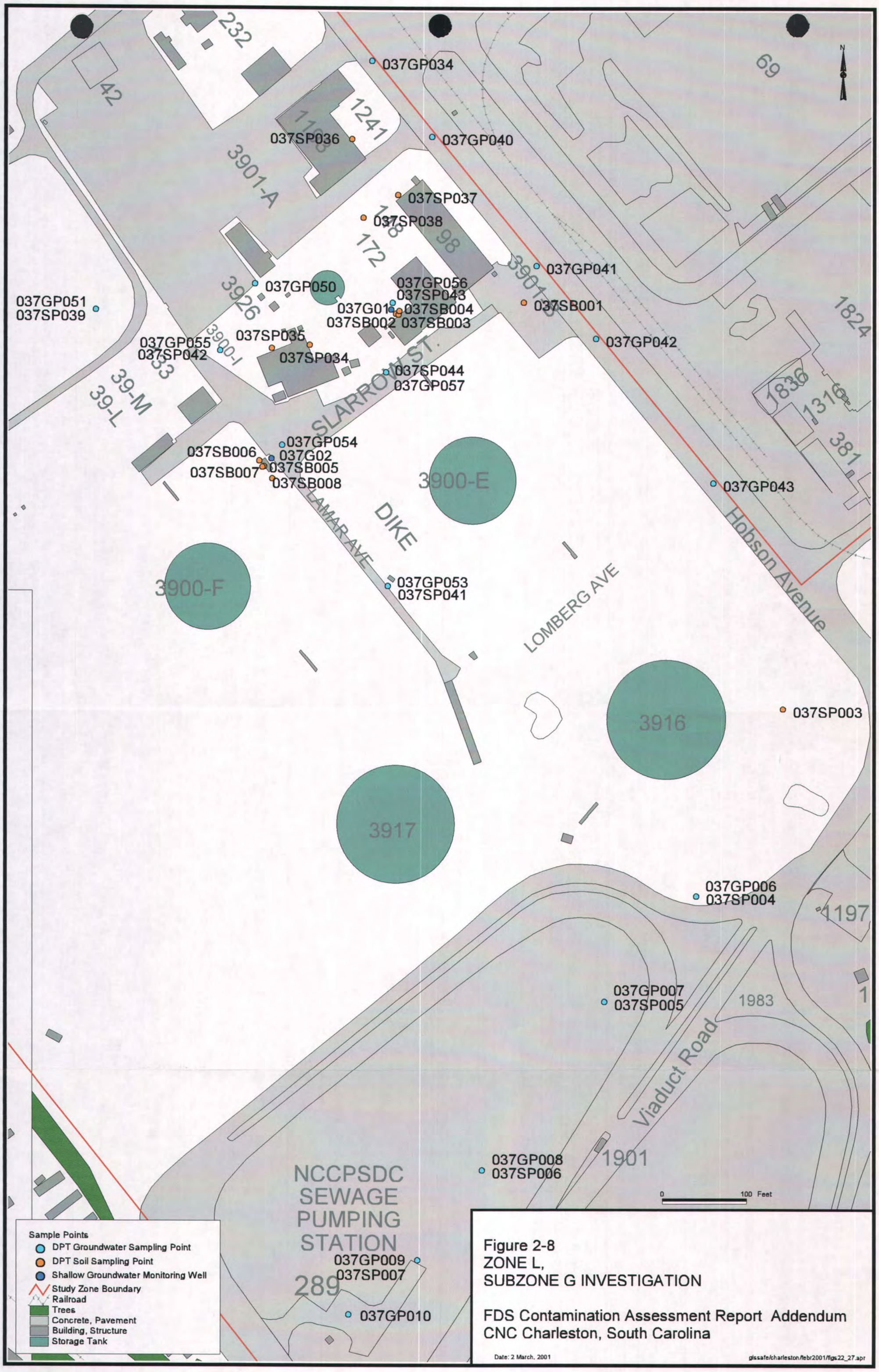

Figure 2-8
ZONE L,
SUBZONE G INVESTIGATION

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2.8 FDS Areas 8, 11, 12, 13, 14 and 15

The Phase I TPH survey of the FDS investigation identified 18 areas of limited soil and groundwater contamination associated with the FDS that required further evaluation under Phase II. Areas 19, 20, and 21 were later added to the FDS investigation based on previous investigations, IMs, and redevelopment considerations following Phase I and Phase II. During Phase I, areas with TPH results greater than 50 mg/kg DRO or 50 μg/kg GRO were targeted for Phase II. There were very few detections of TPH-DRO during Phase I; therefore, most decisions for Phase II were based on TPH-GRO detections above the conservative screening value (for this reason, only TPH-GRO results appear in Table 2.1 below). Of the 18 areas designated for Phase II, Areas 8, 11, 12, 13, 14 and 15 are adjacent to Areas 19, 20, and 21 (the FDS CAR addressed Areas 8, 11 and 15 individually, and Areas 12, 13 and 14 as a group). During Phase II, discrete soil samples were collected from approximately the same sample locations where Phase I TPH results exceeded the conservative screening values. Phase II sample results were analyzed for standard analytical parameters (VOCs, SVOCs, pesticides and PCBs, metals, and cyanide). Table 2.1 presents the Phase I TPH-GRO analytical results of the screening samples collected during the FDS investigation for Areas 8, 11, 12, 13, 14 and 15. Table 2.2 describes the Phase II samples for these areas. The Phase II soil analytical results for these areas are presented in Table 2.3. Areas of potential groundwater contamination were identified for investigation, based on the FDS Phase I/II soil investigation. Monitoring wells were installed so that groundwater samples could be collected from the saturated backfill material surrounding the pipeline or at a comparable depth. Table 2.4 details the monitoring wells that were sampled in conjunction with Areas 8, 11, 12, 13, 14 and 15. The analytical data summary for these samples is presented in Table 2.5.

Table 2.1
Phase I Detected Soil TPH Concentrations
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Sample ID	Result	Interval	Area
	TPH-GRO Gasoline (μg/kg)		
FDSSC04701	**19,000.00**	Subsurface	Area 8
FDSSC05101	**77.6**[a]	Subsurface	Area 11
FDSSC06501	**147.00**	Subsurface	Area 12
FDSSC06601	**67.00**	Subsurface	Area 13
FDSSC06701	**106.00**	Subsurface	Area 14
FDSSH02301	**501.00**	Surface	Area 15

Notes:
a = Primary sample results.
μg/kg = micrograms/kilogram
Bolded concentrations exceed 50 μg/kg TPH-GRO.

Table 2.2
FDS Soil Samples - Phase II
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Boring Location	Sample Identifier	Date	Sample Interval (ft. bgs)	Area
FDSSC47A	FDSSC47A01	9/24/96	13.5-15.5	Area 8
FDSSC051	FDSSC05101	1/13/97	5-7	Area 11
FDSSC065	FDSSC06501	9/25/96	6.3-10.6	Area 12
FDSSC066	FDSSC06601	12/4/96	8.5-10.5	Area 13
FDSSC067	FDSSC06701 FDSCC06701*	12/4/96 12/4/96	8.5-10.5 8.5-10.5	Area 14
FDSSH023	FDSSH02301	10/17/96	0-1	Area 15

Notes:
Samples analyzed using SW-846 methods (metals, pesticides/PCBs, SVOAs, VOAs) at data quality objective (DQO) Level III.
* = Duplicates were analyzed for Appendix IX parameters (metals, pesticides/PCBs, herbicides, organophosphorous (OP) pesticides, dioxins, SVOAs, VOAs); cyanide, and hex-chrome, Level IV.

Table 2.3
Analytes Detected in Soil - Phase II
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Parameters	Location	Concentration	RBSL/SSL	Background
Area 8				
TPH - GRO (μg/kg)				
Gasoline	FDSSC04701	19,000	NL/NL	NA
Volatile Organic Compounds (μg/kg)				
Toluene	FDSSC47A01	4	1,622/12,000	NA
Semivolatile Organic Compounds (μg/kg)				
Total Naphthalenes	FDSSC47A01	**5,210**	210/84,000	NA
2-Methylnaphthalene	FDSSC47A01	5,100	NL/126,000	NA
Naphthalene	FDSSC47A01	110	NL/84,000	NA
Acenaphthene	FDSSC47A01	430	NL/570,000	NA
Anthracene	FDSSC47A01	280	NL/12,000,000	NA
Benzo(a)anthracene	FDSSC47A01	300	73,084/2,000	NA
Dibenzofuran	FDSSC47A01	330	NL/50,000	NA
Fluoranthene	FDSSC47A01	190	NL/4,300,000	NA
Fluorene	FDSSC47A01	570	NL/560,000	NA
Phenanthrene	FDSSC47A01	1,600	NL/1,380,000	NA
Pyrene	FDSSC47A01	710	NL/4,200,000	NA
Inorganics (mg/kg)				
Aluminum (Al)	FDSSC47A01	15,000	NL/1,000,000	23600
Arsenic (As)	FDSSC47A01	16	NL/29	15.5[a]
Barium (Ba)	FDSSC47A01	27.3	NL/1,600	64.5
Beryllium (Be)	FDSSC47A01	1	NL/63	1.63
Calcium (Ca)	FDSSC47A01	30,800	NL/NL	NL
Chromium (Cr)	FDSSC47A01	29.6	NL/1,000,000	43.4[a]
Cobalt (Co)	FDSSC47A01	5.6	NL/2,000	8.14
Copper (Cu)	FDSSC47A01	18.9	NL/920	32.6
Iron (Fe)	FDSSC47A01	19,600	NL/NL	NL
Lead (Pb)	FDSSC47A01	30.3	NL/400	66.3

Table 2.3
Analytes Detected in Soil - Phase II
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Parameters	Location	Concentration	RBSL/SSL	Background
Magnesium (Mg)	FDSSC47A01	4,270	NL/NL	NL
Manganese (Mn)	FDSSC47A01	186	NL/1,100	291
Mercury (Hg)	FDSSC47A01	0.09	NL/2.1	0.31
Potassium (K)	FDSSC47A01	1,870	NL/NL	NL
Selenium (Se)	FDSSC47A01	1.00	NL/5	1.26
Sodium (Na)	FDSSC47A01	2,300	NL/NL	NL
Vanadium (V)	FDSSC47A01	42.7	NL/6,000	72.5
Zinc (Zn)	FDSSC47A01	77.9	NL/12,000	145
Area 11				
TPH - GRO (μg/kg)				
Gasoline	FDSSC05101	77.6[b]	NL/NL	NA
Semivolatile Organic Compounds (μg/kg)				
bis(2-Ethylhexyl)phthalate	FDSSC05101	1,500	NL/3,600,000	NA
Chrysene	FDSSC05101	80	12,998/160,000	NA
Inorganics (mg/kg)				
Aluminum (Al)	FDSSC05101	5,690	NL/1,000,000	23600
Barium (Ba)	FDSSC05101	23.3	NL/1,600	64.5
Beryllium (Be)	FDSSC05101	0.24	NL/63	1.63
Cadmium (Cd)	FDSSC05101	0.05	NL/8	0.48
Calcium (Ca)	FDSSC05101	1,770	NL/NL	NL
Chromium (Cr)	FDSSC05101	6.1	NL/1,000,000	43.4[a]
Cobalt (Co)	FDSSC05101	0.67	NL/2,000	8.14
Copper (Cu)	FDSSC05101	2.6	NL/920	32.6
Iron (Fe)	FDSSC05101	4,300	NL/NL	NL
Lead (Pb)	FDSSC05101	8.8	NL/400	66.3
Magnesium (Mg)	FDSSC05101	269	NL/NL	NL
Manganese (Mn)	FDSSC05101	27.1	NL/1,100	291

Table 2.3
Analytes Detected in Soil - Phase II
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Parameters	Location	Concentration	RBSL/SSL	Background
Mercury (Hg)	FDSSC05101	0.25	NL/2.1	0.31
Nickel (Ni)	FDSSC05101	2.8	NL/130	18.3
Sodium (Na)	FDSSC05101	175	NL/NL	NL
Thallium (Tl)	FDSSC05101	0.41	NL/0.95	0.95
Vanadium (V)	FDSSC05101	15.5	NL/6,000	72.5
Zinc (Zn)	FDSSC05101	9.9	NL/12,000	145
Areas 12, 13, 14				
TPH - GRO (μg/kg)				
Gasoline	FDSSC06501 FDSSC06601 FDSSC06701	147 67 106	NL/NL	NA
Volatile Organic Compounds (μg/kg)				
Carbon disulfide	FDSSC06601 FDSSC06701	2 1	NL/32,000	NA
Toluene	FDSSC06501 FDSSC06601 FDSSC06701	47 4 12	1,622/12,000	NA
Xylene (Total)	FDSSC06601 FDSSC06701	45 3	42,471/148,000	NA
Semivolatile Organic Compounds (μg/kg)				
Total Naphthalenes	FDSSC06501 FDSSC06601 FDSSC06701	62 **6,500** **4,700**	210/84,000	NA
2-Methylnaphthalene	FDSSC06501 FDSSC06601 FDSSC06701	62 3,100 4,700	NL/126,000	NA
Naphthalene	FDSSC06601	3,400	NL/84,000	NA
Acenaphthene	FDSSC06501 FDSSC06601 FDSSC06701	130 3,000 1,400	NL/570,000	NA
Anthracene	FDSSC06501 FDSSC06601 FDSSC06701	110 3,900 1,450	NL/12,000,000	NA
Benzo(a)anthracene	FDSSC06501 FDSSC06601 FDSSC06701	86 1,800 1,355	73,084/2,000	NA
Benzo(b)fluoranthene	FDSSC06501 FDSSC06601 FDSSC06701	72 630 615	29,097/5,000	NA
Benzo(k)fluoranthene	FDSSC06601 FDSSC06701	710 670	231,109/49,000	NA

Table 2.3
Analytes Detected in Soil - Phase II
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Parameters	Location	Concentration	RBSL/SSL	Background
Benzo(a)pyrene	FDSSC06601 FDSSC06701	930 935	NL/8,000	NA
Benzo(g,h,i)perylene	FDSSC06601 FDSSC06701	550 655	NL/4.66E+08	NA
Chrysene	FDSSC06501 FDSSC06601 FDSSC06701	70 2,000 1,510	12998/160000	NA
Dibenz(a,h)anthracene	FDSSC06601 FDSSC06701	120 170	87,866/2,000	NA
Dibenzofuran	FDSSC06601 FDSSC06701	2,700 1,085	NL/50,000	NA
Di-n-octyl phthalate	FDSSC06701	45	NL/10,000,000	NA
Fluoranthene	FDSSC06501 FDSSC06601 FDSSC06701	120 6,000 2,700	NL/4,300,000	NA
Fluorene	FDSSC06501 FDSSC06601 FDSSC06701	140 4,400 2,000	NL/560,000	NA
Indeno(1,2,3-cd)pyrene	FDSSC06601 FDSSC06701	460 460	NL/14,000	NA
Phenanthrene	FDSSC06501 FDSSC06601 FDSSC06701	240 15,000 6,150	NL/1,380,000	NA
Pyrene	FDSSC06501 FDSSC06601 FDSSC06701	290 5,300 3,700	NL/4,200,000	NA
Dioxin (ng/kg)				
Dioxin(2,3,4,8-TCDD TEQs[1])	FDSSC06701	0.0847	NL/1,900	NA
Inorganics (mg/kg)				
Aluminum (Al)	FDSSC06501 FDSSC06601 FDSSC06701	28,400 15,400 12,050	NL/1,000,000	23600
Antimony (Sb)	FDSSC06501	0.51	NL/5	ND
Arsenic (As)	FDSSC06501 FDSSC06601 FDSSC06701	17 10.2 10.35	NL/29	15.5[a]
Barium (Ba)	FDSSC06501 FDSSC06601 FDSSC06701	40.6 33.9 25.65	NL/1,600	64.5
Beryllium (Be)	FDSSC06501 FDSSC06601 FDSSC06701	1.3 0.76 0.62	NL/63	1.63
Calcium (Ca)	FDSSC06501 FDSSC06601 FDSSC06701	14,500 40,000 24,100	NL/NL	NL

Table 2.3
Analytes Detected in Soil - Phase II
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Parameters	Location	Concentration	RBSL/SSL	Background
Chromium (Cr)	FDSSC06501	42.9	NL/1,000,000	43.4[a]
	FDSSC06601	28.7		
	FDSSC06701	24.55		
Cobalt (Co)	FDSSC06501	6.3	NL/2,000	8.14
	FDSSC06601	3.4		
	FDSSC06701	3.1		
Copper (Cu)	FDSSC06501	24.8	NL/920	32.6
	FDSSC06601	18.5		
	FDSSC06701	14.25		
Iron (Fe)	FDSSC06501	30,700	NL/NL	NL
	FDSSC06601	17,800		
	FDSSC06701	23,900		
Lead (Pb)	FDSSC06501	42.9	NL/400	66.3
	FDSSC06601	28.2		
	FDSSC06701	27.6		
Magnesium (Mg)	FDSSC06501	4,840	NL/NL	NL
	FDSSC06601	6,460		
	FDSSC06701	2,585		
Manganese (Mn)	FDSSC06501	582	NL/1,100	291
	FDSSC06601	163		
	FDSSC06701	238.5		
Mercury (Hg)	FDSSC06501	0.22	NL/2.1	0.31
	FDSSC06601	0.2		
	FDSSC06701	0.175		
Nickel (Ni)	FDSSC06501	13.9	NL/130	18.3
	FDSSC06601	10.1		
	FDSSC06701	8.15		
Potassium (K)	FDSSC06501	2,580	NL/NL	NL
	FDSSC06601	2,260		
	FDSSC06701	1,455		
Selenium (Se)	FDSSC06501	1.1	NL/5	1.26
	FDSSC06701	0.87		
Sodium (Na)	FDSSC06601	5,770	NL/NL	NL
	FDSSC06701	2,340		
Thallium (Tl)	FDSSC06501	0.57	NL/0.95	0.95
Vanadium (V)	FDSSC06501	69.1	NL/6,000	72.5
	FDSSC06601	30.2		
	FDSSC06701	34.8		
Zinc (Zn)	FDSSC06501	97	NL/12,000	145
	FDSSC06601	69		
	FDSSC06701	58.55		
Area 15				
TPH - GRO (μg/kg)				
Gasoline	FDSSH02301	501	NL/NL	NA

Table 2.3
Analytes Detected in Soil - Phase II
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Parameters	Location	Concentration	RBSL/SSL	Background
Volatile Organic Compounds (μg/kg)				
1,1-Dichloroethane	FDSSH02301	85	NL/23,000	NA
1,1,1-Trichloroethane	FDSSH02301	48	NL/2,000	NA
Benzene	FDSSH02302	2	5/30	NA
Ethylbenzene	FDSSH02301	130	7,800,000/13,000	NA
Methylene Chloride	FDSSH02302	2	NL/20	NA
Tetrachloroethene	FDSSH02301	13	NL/60	NA
Toluene	FDSSH02301	22	160,000,000/12,000	NA
Xylene (Total)	FDSSH02301	1,800	160,000,000/148,000	NA
Semivolatile Organic Compounds (μg/kg)				
Total Naphthalenes	FDSSH02301 FDSSH02302	8,500 25	3,100,000/84,000 210/84,000	NA
2-Methylnaphthalene	FDSSH02301	6,800	NL/126,000	NA
Naphthalene	FDSSH02301	1,700	NL/84,000	NA
bis(2-ethylhexyl)phthalate	FDSSH02302 FDSSH02302	25 130	NL/3,600,000	NA
Chrysene	FDSSH02301	240	88,000/160,000	NA
Fluorene	FDSSH02301	1,900	NL/560,000	NA
Phenanthrene	FDSSH02301	1,900	NL/1,380,000	NA
Pyrene	FDSSH02301	590	NL/4,200,000	NA
Pesticides (μg/kg)				
4,4-DDE	FDSSH02302	12	NL/54,000	NA
Endrin	FDSSH02301	20	NL/1,000	NA
Aroclor-1260	FDSSH02302	53	NL/1,000	NA
Heptachlor	FDSSH02301	5.3	NL/23,000	NA
Heptachlor expoxide	FDSSH02302	2.8	NL/23,000	NA
gamma-Chlordane	FDSSH02301 FDSSH02302	3.4 3.2	NL/10,000	NA

Table 2.3
Analytes Detected in Soil - Phase II
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Parameters	Location	Concentration	RBSL/SSL	Background
Inorganics (mg/kg)				
Aluminum (Al)	FDSSH02301 FDSSH02302	2,820 6,950	NL/1,000,000	18700
Arsenic (As)	FDSSH02301 FDSSH02302	1.8 2.4	NL/29	17.2
Barium (Ba)	FDSSH02301 FDSSH02302	13.1 31.3	NL/1,600	109
Beryllium (Be)	FDSSH02302	0.31	NL/63	1.2
Cadmium (Cd)	FDSSH02301	0.19	NL/8	1.07
Calcium (Ca)	FDSSH02301 FDSSH02302	13,100 1,220	NL/NL	NL
Chromium (Cr)	FDSSH02301 FDSSH02302	9.3 13.5	NL/1,000,000	42.8
Cobalt (Co)	FDSSH02301 FDSSH02302	1.3 1.5	NL/2,000	6.60
Copper (Cu)	FDSSH02302	2.4	NL/920	30.4
Iron (Fe)	FDSSH02301 FDSSH02302	4,860 10,500	NL/NL	NL
Lead (Pb)	FDSSH02301 FDSSH02302	29.5 7.9	NL/400	181
Magnesium (Mg)	FDSSH02301 FDSSH02302	499 646	NL/NL	NL
Manganese (Mn)	FDSSH02301 FDSSH02302	29.6 34.3	NL/1100	325
Mercury (Hg)	FDSSH02301 FDSSH02302	0.07 0.05	NL/2.1	1.03
Nickel (Ni)	FDSSH02301 FDSSH02302	4.2 2.9	NL/130	206
Potassium (K)	FDSSH02301 FDSSH02302	240 321	NL/NL	NL
Selenium (Se)	FDSSH02302	0.51	NL/5	1.24
Sodium (Na)	FDSSH02302	249	NL/NL	NL
Thallium (Tl)	FDSSH02301	0.47	NL/0.95	0.85
Tin (Sn)	FDSSH02302	4.9	NL/11,088	NL

Table 2.3
Analytes Detected in Soil - Phase II
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Parameters	Location	Concentration	RBSL/SSL	Background
Vanadium (V)	FDSSH02301 FDSSH02302	10.6 16.1	NL/6,000	60.9
Zinc (Zn)	FDSSH02301 FDSSH02302	66.8 14.8	NL/12,000	519

Notes:
a = Background value for non-clay samples.
b = Primary sample.
NL = Not listed.
NA = Not applicable.
μg/kg = Micrograms per kilogram.
mg/kg = Milligrams per kilogram.
ng/kg = nanograms per kilogram
RBSLs from the *South Carolina Risk-Based Corrective Action for Petroleum Releases* (SCDHEC, January 5, 1998) and soil-to-groundwater SSLs (DAF=20) from the *Soil Screening Guidance: Technical Background Document* (USEPA, 1996) were used as reference concentrations.
Bolded concentrations exceed RBSL or the SSL (if no RBSL is available).
All background values for Zone G are based on twice the mean of grid sample concentrations.

Table 2.4
FDS Groundwater Samples
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Well Number	Sample Identifier	Date Sampled	Remarks
Area 8			
FDS08A	FDS08A01 FDS08A02	1/24/97 6/05/97	Area 8 associated with FDSSC047 and FDSSC47A; elevated TPH-GRO/SVOCs
FDS08B	FDS08B01 FDS08B02	1/25/97 6/09/97	
FDS08C	FDS08C01* FDS08C02*	1/24/97 6/09/97	*duplicate sample also collected
FDS08D	FDS08D01	3/05/99	Sampled for metals, VOAs, SVOAs only
Area 11			
FDS11A	FDS11A01 FDS11A02	1/28/97 6/11/97	Area 11 associated with FDSSC051; elevated TPH-GRO
FDS11B	FDS11B01 FDS11B02	1/28/97 6/11/97	
FDS11C	FDS11C01* FDS11C02*	1/28/97 6/11/97	*duplicate sample also collected

Table 2.4
FDS Groundwater Samples
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Well Number	Sample Identifier	Date Sampled	Remarks
Area 12			
FDS12A	FDS12A01* FDS12A02*	1/27/97 6/11/97	Area 12 associated with FDSSC065; elevated TPH-GRO/inorganics *duplicate sample also collected
FDS12B	FDS11B01 FDS11B02	1/27/97 6/11/97	
Area 13			
FDS13A	FDS13A01 FDS13A02	1/27/97 6/11/97	Area 13 associated with FDSSC066; elevated TPH-GRO/SVOCs
FDS13B	FDS13B01 FDS13B02	1/27/97 6/13/97	
FDS13C	FDS13C01 FDS13C02	1/27/97 6/12/97	
FDS13D	FDS13D01 FDS13D02	1/27/97 6/12/97	
FDS13E	FDS13E01 FDS13E02	1/28/97 6/13/97	
Area 14			
FDS14A	FDS14A01 FDS14A02	1/27/97 6/12/97	Area 14 associated with FDSSC067; elevated TPH-GRO/SVOCs/inorganics
FDS14B	FDS14B01 FDS14B02	1/27/97 6/12/97	
FDS14C	FDS14C01 FDS14C02	1/27/97 6/13/97	
Area 15			
FDS15A	FDS15A01 FDS15A02	1/28/97 6/13/97	Area 15 associated with FDSSH023; elevated TPH-GRO/inorganics
FDS15B	FDS15B01 FDS15B02	1/28/97 6/16/97	
FDS15C	FDS15C01 FDS15C02	1/28/97 6/16/97	

Notes:
Samples analyzed using SW-846 methods (metals, pesticides/PCBs, SVOAs, VOAs) at DQO Level III. First-round samples also analyzed for cyanide.

* = Duplicates analyzed for Appendix IX parameters (metals, pesticides/PCBs, herbicides, OP pesticides, dioxins, SVOAs, VOAs), cyanide, and hex-chrome at DQO Level IV.

Table 2.5
Analytes Detected in Groundwater
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Parameters	Location	First Sampling Event	Second Sampling Event	RBSL	Tap Water RBC	MCL	Shallow Background
Area 8							
Semivolatile Organic Compounds (μg/L)							
Total PAHs	FDS08B	2	2	25	NL	NL	NA
2-Methylnaphthalene	FDS08B	2	2	NL	12	NL	NA
Acenaphthene	FDS08B	17	6	NL	37	NL	NA
Anthracene	FDS08B	2	ND	NL	180	NL	NA
Fluoranthene	FDS08B	6	4	NL	150	NL	NA
Fluorene	FDS08B	9	4	NL	24	NL	NA
Phenanthrene	FDS08B	6	5	NL	18	NL	NA
Pyrene	FDS08B	4	2	NL	18	NL	NA
Benzoic acid	FDS08B	2	1	NL	15,000	NL	NA
Benzyl alcohol	FDS08C	ND	3	NL	1,100	NL	NA
Butylbenzylphthalate	FDS08C	ND	5	NL	730	NL	NA
Dibenzofuran	FDS08B	4	2	NL	2.4	NL	NA
Di-n-butylphthalate	FDS08C	ND	1	NL	370	NL	NA
Inorganics (μg/L)							
Aluminum (Al)	FDS08A FDS08B FDS08C	**8,900** 682 ND	381 116 72	NL	3,700	NL	692
Antimony (Sb)	FDS08B	ND	**2.7**	NL	1.5	6	4.85
Arsenic (As)	FDS08A FDS08B FDS08C	20.6 6.5 3.4	16.4 6.6 3.8	50	0.045	50	17.8
Barium (Ba)	FDS08A FDS08B FDS08C FDS08D	54.4 179 131 38.9	22.2 89.8 72.6	2,000	260	2,000	31
Beryllium (Be)	FDS08A FDS08C	1.3 0.66	ND ND	NL	7.3	4	ND

Table 2.5
Analytes Detected in Groundwater
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Parameters	Location	First Sampling Event	Second Sampling Event	RBSL	Tap Water RBC	MCL	Shallow Background
Calcium (Ca)	FDS08A	88,100	76,500	NL	NL	NL	NL
	FDS08B	83,800	90,000				
	FDS08C	170,000	244,000				
Chromium (Cr)	FDS08A	18.9	ND	100	11	100	3.88
	FDS08B	4.8	2.3				
Cobalt (Co)	FDS08A	3.1	ND	NL	220	NL	1.45
	FDS08B	3.5	2.8				
	FDS08C	2.0	0.85				
Copper (Cu)	FDS08A	6.4	2.3	NL	150	1,300	8.33
Iron (Fe)	FDS08A	15,500	8,630	NL	1,100	NL	NL
	FDS08B	3,040	23,800				
	FDS08C	828	1,445				
Lead (Pb)	FDS08A	8.4	ND	15	15	15	4.6
Magnesium (Mg)	FDS08A	41,900	37,600	NL	NL	NL	NL
	FDS08B	160,000	157,000				
	FDS08C	169,000	127,500				
Manganese (Mn)	FDS08A	**304**	**275**	NL	73	NL	2,906
	FDS08B	**386**	**561**				
	FDS08C	**332**	**435**				
Nickel (Ni)	FDS08A	8	1	NL	73	100	4.08
	FDS08B	13	1.6				
	FDS08C	5.8	0.88				
Potassium (K)	FDS08A	20,500	20,900	NL	NL	NL	NL
	FDS08B	71,500	63,800				
	FDS08C	68,600	51,750				
Silver (Ag)	FDS08C	ND	1.4	5	18	NL	1.65
Sodium (Na)	FDS08A	114,000	59,000	NL	NL	NL	NL
	FDS08B	1,960,000	1,850,000				
	FDS08C	1,210,000	598,000				
Thallium (Tl)	FDS08A	**4.1**	ND	NL	0.26	2	ND
	FDS08B	**5.8**	**7.8**				
	FDS08C	**8.4**	ND				
Vanadium (V)	FDS08A	22.9	4.5	NL	26	NL	15.4
	FDS08B	13.1	6.6				
	FDS08C	2.8	18.1				
Zinc (Zn)	FDC08A	36	ND	NL	1100	NL	15.6

Table 2.5
Analytes Detected in Groundwater
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Parameters	Location	First Sampling Event	Second Sampling Event	RBSL	Tap Water RBC	MCL	Shallow Background
Area 11							
Volatile Organic Compounds (μg/L)							
Toluene	FDS11C	1	ND	1000	75	1000	NA
Semivolatile Organic Compounds (μg/L)							
Acenaphthene	FDS11A	1.0	2.0	NL	37	NL	NA
Aniline	FDS11C	5	NT	NL	12	NL	NA
Benzoic Acid	FDS11A	7	ND	NL	15,000	NL	NA
4-Methylphenol (p-Cresol)	FDS11C	ND	2.0	NL	18	NL	NA
Dioxin (pg/L)							
Dioxin (2,3,7,8-TCDD TEQs[1])	FDS11C	0.1694	NT	NL	0.45	NL	NA
Inorganics (μg/L)							
Aluminum (Al)	FDS11A FDS11B FDS11C	209 174 466	395 86.2 169	NL	3700	NL	692
Antimony (Sb)	FDS11A FDS11B FDS11C	**5.1** **4.2** **4.0**	ND ND ND	NL	1.5	6	4.85
Arsenic (As)	FDS11A FDS11C 619003	2.9 3.2 3.0	ND 2.9 8.0	50	0.045	50	17.8
Barium (Ba)	FDS11A FDS11B FDS11C	39.8 68.9 57.8	27.9 54 51.1	2,000	260	2,000	31
Calcium (Ca)	FDS11A FDS11B FDS11C	101,000 93,200 125,500	105,000 84,500 77,800	NL	NL	NL	NL
Chromium (Cr)	FDS11A FDS11B FDS11C	0.96 0.92 1.1	1 ND ND	100	11	100	3.88
Iron (Fe)	FDS11A FDS11B FDS11C	2,260 15,800 7,690	2,920 17,300 7,120	NL	1,100	NL	NL

Table 2.5
Analytes Detected in Groundwater
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Parameters	Location	First Sampling Event	Second Sampling Event	RBSL	Tap Water RBC	MCL	Shallow Background
Cyanide (CN)	FDS11B	3.2	NT	NL	73	200	3.8
	FDS11C	2.2	NT				
Magnesium (Mg)	FDS11A	34,000	28,500	NL	NL	NL	NL
	FDS11B	67,900	54,100				
	FDS11C	191,500	99,650				
Manganese (Mn)	FDS11A	**300**	**348**	NL	73	NL	2,906
	FDS11B	**913**	**814**				
	FDS11C	**527**	**500**				
Mercury (Hg)	FDS11C	ND	0.11	2	1.1	2	ND
Nickel (Ni)	FDS11A	0.96	ND	NL	73	100	4.08
	FDS11B	3	ND				
	FDS11C	1	ND				
Potassium (K)	FDS11A	27,300	18,300	NL	NL	NL	NL
	FDS11B	38,200	31,200				
	FDS11C	54,050	39,650				
Sodium (Na)	FDS11A	380,000	185,000	NL	NL	NL	NL
	FDS11B	587,000	433,000				
	FDS11C	908,000	1,030,000				
Tin (Sn)	FDS11C	3.3	ND	NL	2,200	NL	ND
Vanadium (V)	FDS11A	0.67	ND	NL	26	NL	15.4
	FDS11B	ND	ND				
	FDS11C	0.67	ND				
Areas 12, 13, & 14							
Semivolatile Organic Compounds (μg/L)							
Total PAHs	FDS13A	1	5	25	NL	NL	NA
2-Methylnaphthalene	FDS13A	1	5	10	12	NL	NA
4-Nitrophenol	FDS14A	ND	1	NL	29	NL	NA
Benzoic acid	FDS13A	2	ND	NL	15,000	NL	NA
	FDS13B	2	ND				
	FDS14A	ND	2				
	FDS14B	ND	1				

Table 2.5
Analytes Detected in Groundwater
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Parameters	Location	First Sampling Event	Second Sampling Event	RBSL	Tap Water RBC	MCL	Shallow Background
Inorganics (μg/L)							
Aluminum (Al)	FDS12A	514	288	NL	3,700	NL	692
	FDS12B	ND	213				
	FDS13A	1,360	692				
	FDS13B	787	74.4				
	FDS13C	1,730	1,600				
	FDS13D	1,850	2,820				
	FDS13E	215	1,290				
	FDS14A	ND	2,940				
	FDS14B	ND	201				
	FDS14C	738	250				
	GDG002	176	ND				
Antimony (Sb)	FDS13E	**3.4**	ND	NL	1.5	6	4.85
Arsenic (As)	FDS12A	6.55	22.95	50	0.045	50	17.8
	FDS12B	28	49.3				
	FDS13A	27	**210**				
	FDS13B	5.2	16.8				
	FDS13C	3.9	6				
	FDS13D	ND	16.7				
	FDS13E	22.5	29.9				
	FDS14A	**50.3**	21.8				
	FDS14B	6.9	22.5				
	FDS14C	14	24.9				
Barium (Ba)	FDS12A	268	196.5	2,000	260	2,000	31
	FDS12B	78.9	70.4				
	FDS13A	138	28.1				
	FDS13B	144	29.8				
	FDS13C	27.3	17				
	FDS13D	35.6	31.9				
	FDS13E	32.9	30.4				
	FDS14A	45.2	59.6				
	FDS14B	52	46.2				
	FDS14C	51.5	33.1				
	GDG002	13.6	17.4				
Beryllium (Be)	FDS13B	0.45	ND	NL	7.3	4	ND
	FDS13C	0.53	ND				
	FDS14C	0.64	ND				
Cadmium (Cd)	FDS12A	ND	0.46	5	1.8	5	0.53
	FDS12B	ND	0.52				
	FDS13A	ND	0.44				
	FDS13C	ND	0.68				
	FDS14A	ND	0.31				
	FDS14B	ND	0.41				

Table 2.5
Analytes Detected in Groundwater
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Parameters	Location	First Sampling Event	Second Sampling Event	RBSL	Tap Water RBC	MCL	Shallow Background
Calcium (Ca)	FDS12A	274,500	215,500	NL	NL	NL	NL
	FDS12B	172,000	160,000				
	FDS13A	161,000	155,000				
	FDS13B	197,000	185,000				
	FDS13C	69,800	49,400				
	FDS13D	8,930	3,580				
	FDS13E	155,000	161,000				
	FDS14A	177,000	137,000				
	FDS14B	127,000	137,000				
	FDS14C	201,000	151,000				
Chromium (Cr)	FDS12A	1.2	ND	100	11	100	3.88
	FDS12B	.82	ND				
	FDS13A	4.2	1.9				
	FDS13B	2.6	1.9				
	FDS13C	1.3	2.9				
	FDS13D	3.6	5.3				
	FDS13E	ND	3.3				
	FDS14A	2	9.6				
	FDS14B	4.3	2.8				
	FDS14C	1.4	2.4				
Cobalt (Co)	FDS12A	17.85	18.7	NL	220	NL	1.45
	FDS12B	31	29.6				
	FDS13A	4.1	ND				
	FDS13B	3.1	1.9				
	FDS13C	29	23.4				
	FDS13D	3.4	1.4				
	FDS14A	1.9	2.1				
	FDS14B	3	1.6				
	FDS14C	1.6	0.98				
Copper (Cu)	FDS13A	5.2	ND	NL	150	1300	8.33
	FDS13B	ND	2.2				
	FDS13D	ND	1.8				
	FDS14A	ND	3.7				
	FDS14B	3.8	ND				
	FDS14C	5	ND				
Cyanide (CN)	FDS13E	2.6	NT	NL	73	200	3.8
	FDS14B	2.2	NT				
	FDS14C	8.4	NT				
Iron (Fe)	FDS12A	10,800	19,850	NL	1,100	NL	NL
	FDS12B	18,500	32,200				
	FDS13A	14,700	37,200				
	FDS13B	2,110	9,150				
	FDS13C	73,800	64,500				
	FDS13D	4,640	8,280				
	FDS13E	10,700	19,000				
	FDS14A	20,100	15,600				
	FDS14B	4,240	25,600				
	FDS14C	2,830	4,930				

Table 2.5
Analytes Detected in Groundwater
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Parameters	Location	First Sampling Event	Second Sampling Event	RBSL	Tap Water RBC	MCL	Shallow Background
Lead (Pb)	FDS13A	ND	1	15	15	15	4.6
	FDS13D	ND	1.9				
	FDS13E	ND	1.3				
	FDS14A	ND	3.5				
Magnesium (Mg)	FDS12A	58,000	53,400	NL	NL	NL	NL
	FDS12B	106,000	112,000				
	FDS13A	203,000	75,700				
	FDS13B	428,000	214,000				
	FDS13C	153,000	113,000				
	FDS13D	6,130	2,730				
	FDS13E	131,000	137,000				
	FDS14A	257,000	281,000				
	FDS14B	266,000	217,000				
	FDS14C	170,000	197,000				
	GDG002	100,000	81,000				
Manganese (Mn)	FDS12A	**3,650**	**3,180**	NL	73	NL	2906
	FDS12B	**3,370**	**3,240**				
	FDS13A	**1,370**	**2,480**				
	FDS13B	**286**	**292**				
	FDS13C	**1,680**	**1,300**				
	FDS13D	**163**	73.7				
	FDS13E	**1,540**	**1,660**				
	FDS14A	**607**	**354**				
	FDS14B	**329**	**405**				
	FDS14C	**3,360**	**1,510**				
	GDG002	**2,630**	**2,820**				
Nickel (Ni)	FDS12A	9.2	4.85	NL	73	100	4.08
	FDS12B	9.6	6.2				
	FDS13A	11	ND				
	FDS13B	7.7	4				
	FDS13C	10.5	7.9				
	FDS13D	4.8	2.2				
	FDS13E	0.94	0.82				
	FDS14A	ND	4.8				
	FDS14B	7.7	1.4				
	FDS14C	ND	2.3				
	GDG002	2	ND				
Potassium (K)	FDS12A	7,140	5,935	NL	NL	NL	NL
	FDS12B	41,200	43,900				
	FDS13A	75,200	42,100				
	FDS13B	123,000	86,500				
	FDS13C	40,300	30,300				
	FDS13D	3,610	2,910				
	FDS13E	57,400	67,000				
	FDS14A	91,500	109,000				
	FDS14B	90,000	81,600				
	FDS14C	63,100	94,300				
	GDG002	46,400	49,800				
Selenium (Se)	GDG002	ND	4.1	50	18	50	4.3

Table 2.5
Analytes Detected in Groundwater
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Parameters	Location	First Sampling Event	Second Sampling Event	RBSL	Tap Water RBC	MCL	Shallow Background
Silver (Ag)	GDG002	1.7	ND	5	18	NL	1.65
Sodium (Na)	FDS12A	427,000	388,000	NL	NL	NL	NL
	FDS12B	876,000	1,010,000				
	FDS13A	1,850,000	425,000				
	FDS13B	3,860,000	2,080,000				
	FDS13C	1,620,000	1,260,000				
	FDS13D	163,000	104,000				
	FDS13E	538,000	795,000				
	FDS14A	1,970,000	2,510,000				
	FDS14B	2,240,000	2,020,000				
	FDS14C	1,030,000	1,750,000				
	GDG002	694,000	576,000				
Thallium (Tl)	FDS12A	**4.5**	ND	NL	0.26	2	ND
	FDS12B	**3.2**	ND				
	FDS13A	**5.7**	ND				
	FDS13B	**7.1**	ND				
	FDS13D	**4.2**	ND				
	FDS14A	**3.5**	ND				
	FDS14B	**3.2**	ND				
	FDS14C	**5.3**	ND				
Vanadium (V)	FDS12A	1.35	ND	NL	26	NL	15.4
	FDS13A	4.7	5.1				
	FDS13B	9.1	20.5				
	FDS13C	1.6	2.9				
	FDS13D	3.7	6.1				
	FDS13E	3.7	5.3				
	FDS14A	5	20.2				
	FDS14B	8.4	13.2				
	FDS14C	5.4	17.3				
	GDG002	2.7	3.1				
Zinc (Zn)	FDS12A	ND	8.4	NL	1100	NL	15.6
	FDS12B	ND	16.3				
	FDS13A	ND	7.8				
	FDS13C	ND	21.7				
	FDS13D	ND	12.9				
	FDS14A	ND	10.4				
Area 15							
Volatile Organic Compounds (μg/L)							
Toluene	FDS15A	3	ND	1,000	75	1,000	NA
Chlorobenzene	FDS15A	6	ND	NL	11	100	NA
Semivolatile Organic Compounds (μg/L)							
Phenol	FDS15A	1	ND	NL	2,200	NNNL	NA
4-Methylphenol (p-cresol)	FDS15A	**23**	2	NL	18	NL	NA

Table 2.5
Analytes Detected in Groundwater
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Parameters	Location	First Sampling Event	Second Sampling Event	RBSL	Tap Water RBC	MCL	Shallow Background
Semivolatile Organic Compounds (μg/L)							
Benzoic acid	FDS15A	6	ND	NL	15,000	NL	NA
Pesticides/PCBs (μg/L)							
beta-BHC	FDS15A	**0.057**	ND	NL	0.037	NL	NA
Inorganics (μg/L)							
Aluminum (Al)	FDS15A	100	503	NL	3,700	NL	692
	FDS15B	3,010	209				
	FDS15C	962	474				
Antimony (Sb)	FDS15C	**3.5**	ND	NL	1.5	6	4.85
Arsenic (As)	FDS15A	19.4	26.7	50	0.045	50	17.8
	FDS15B	4.1	4.6				
Barium (Ba)	FDS15A	55.2	94.5	2,000	260	2,000	31
	FDS15B	68.6	70.6				
	FDS15C	159	153				
Calcium (Ca)	FDS15A	126,000	235,000	NL	NL	NL	NL
	FDS15B	98,800	119,000				
	FDS15C	268,000	284,000				
Chromium (Cr)	FDS15A	0.92	1.5	100	11	100	3.88
	FDS15B	4.7	ND				
	FDS15C	1.9	ND				
Cobalt (Co)	FDS15B	8.1	6.8	NL	220	NL	1.45
	FDS15C	1.3	ND				
Copper (Cu)	FDS15A	3.6	ND	NL	150	1,300	8.33
Cyanide (CN)	FDS15A	3	NT	NL	73	200	3.8
	FDS15B	7	NT				
Iron (Fe)	FDS15A	4,920	6,620	NL	NL	NL	NL
	FDS15B	2,060	675				
	FDS15C	1,920	3,040				
Magnesium (Mg)	FDS15A	12,200	15,800	NL	NL	NL	NL
	FDS15B	26,200	22,800				
	FDS15C	19,300	14,000				
Manganese (Mn)	FDS15A	**721**	**515**	NL	73	NL	2,906
	FDS15B	**1,050**	**813**				
	FDS15C	**806**	**465**				

Table 2.5
Analytes Detected in Groundwater
Fuel Distribution System Areas 8, 11, 12, 13, 14, and 15

Parameters	Location	First Sampling Event	Second Sampling Event	RBSL	Tap Water RBC	MCL	Shallow Background
Nickel (Ni)	FDS15A	3.7	0.84	NL	73	100	4.08
	FDS15B	3.2	1.6				
	FDS15C	1.7	0.9				
Potassium (K)	FDS15A	10,800	5,130	NL	NL	NL	NL
	FDS15B	7,410	8,050				
	FDS15C	3,440	3,450				
Sodium (Na)	FDS15A	78,300	157,000	NL	NL	NL	NL
	FDS15B	92,400	158,000				
	FDS15C	117,000	114,000				
Thallium (Tl)	FDS15C	**3.3**	ND	NL	0.26	2	ND
Vanadium (V)	FDS15A	1.3	1.6	NL	26	NL	15.4
	FDS15B	6	1.1				
	FDS15C	1.9	1.6				

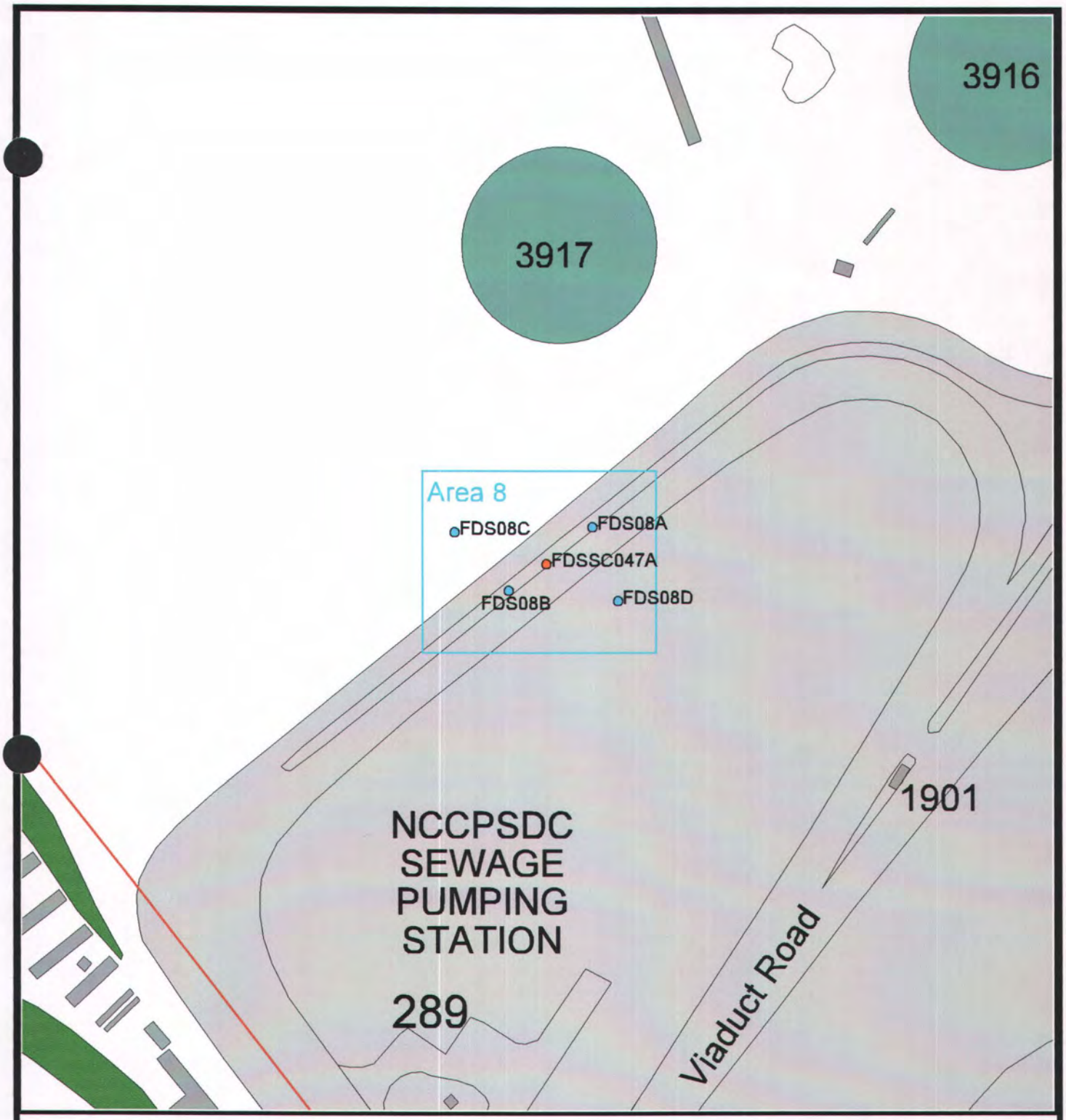
Notes:
NL = Not listed.
NA = Not applicable.
ND = Not detected.
NT = Not taken.
MCL = Maximum Contaminant Level
μg/L = Micrograms per liter.
pg/L = Picograms per liter.
a = Primary sample result.
RBSLs from the *South Carolina Risk-Based Corrective Action for Petroleum Releases* (SCDHEC, January 5, 1998) and tap water RBCs (THQ=0.1) from *Risk Based Concentration Table* (USEPA, October 22, 1997) were used as reference concentrations.
Bolded concentrations exceed RBSL or tap-water RBC (if no RBSL is available).
All background values for Phase II were taken from the Zone G investigation and are based on twice the mean of the Zone G grid sample concentrations. These background values were based on two sampling rounds from these grid wells.

2.8.1 Area 8

Area 8, directly south of Tank 3917 in Area 21, is associated with FDS Phase I subsurface soil sample FDSSC04701. This sample had TPH-GRO results of 19,000 μg/kg, prompting the subsequent Phase II soil and groundwater sampling (Table 2.1). The Phase II sample FDSSC47A01 (see Table 2.3) exhibited total naphthalenes above the RBSL. Metals and one VOC, toluene, were detected at this boring but were below their soil screening standards (see Table 2.3). No VOCs were detected in samples from the Area 8 monitoring wells, which are downgradient of Tank 3917. RBCA-listed groundwater SVOCs and metals were detected in the sample results, although no detection exceeded an appropriate RBSL. The FDS CAR recommended, and SCDHEC concurred, that a fourth monitoring well should be installed downgradient of boring FDSSC47A01 to determine if total naphthalenes had impacted groundwater at the site. This well, FDS08D, was installed and sampled in early 1999. No naphthalenes were detected at FDS08D and barium was detected at a concentration below its RBSL. This follow-on effort was subsequently reported to SCDHEC in a Letter Report (EnSafe, October 1999). The Letter Report recommended that wells FDS08A and FDS08D be monitored during two quarterly sampling events to ensure that subsurface soil constituents were not adversely impacting groundwater at Area 8. The Letter Report also recommended that if concentrations remained below groundwater RBSLs during the follow-on monitoring, these results should be used to support a no-further-action decision for soil and groundwater at Area 8. These data were not available during preparation of this report. Figure 2-9 shows Area 8, and the sample locations for this investigation.

2.8.2 Area 11

Area 11 is directly adjacent to the north side of Area 20, at the intersection of Hobson Avenue and Thirteenth Street (Figure 1-2). The Phase I TPH-GRO primary sample result for subsurface soil boring FDSSC05101 was 77.6 μg/kg, prompting subsequent Phase II soil and groundwater sampling within Area 11 (Table 2.1). No VOCs were detected in subsurface soil at Area 11.



Sample Points
- Soil Boring
- Monitoring Well
- Study Zone Boundary
- Railroad
- Trees
- Concrete, Pavement
- Building, Structure
- Storage Tank

0 100 Feet

Figure 2-9
Area 8 Investigation
FDS Contamination Assessment Report Addendum
CNC Charleston, South Carolina

Date: 2 March, 2001

gissafe/charleston/febr2001/figs22_27.apr

The only RBCA-listed parameter detected in subsurface soil was chrysene, at a concentration below its RBSL (Table 2.3). RBCA-listed metals (arsenic, barium and chromium) were detected in groundwater at Area 11; however, these detections were below their respective RBSLs (Table 2.5). Area 11 is hydraulically cross-gradient of Area 20.

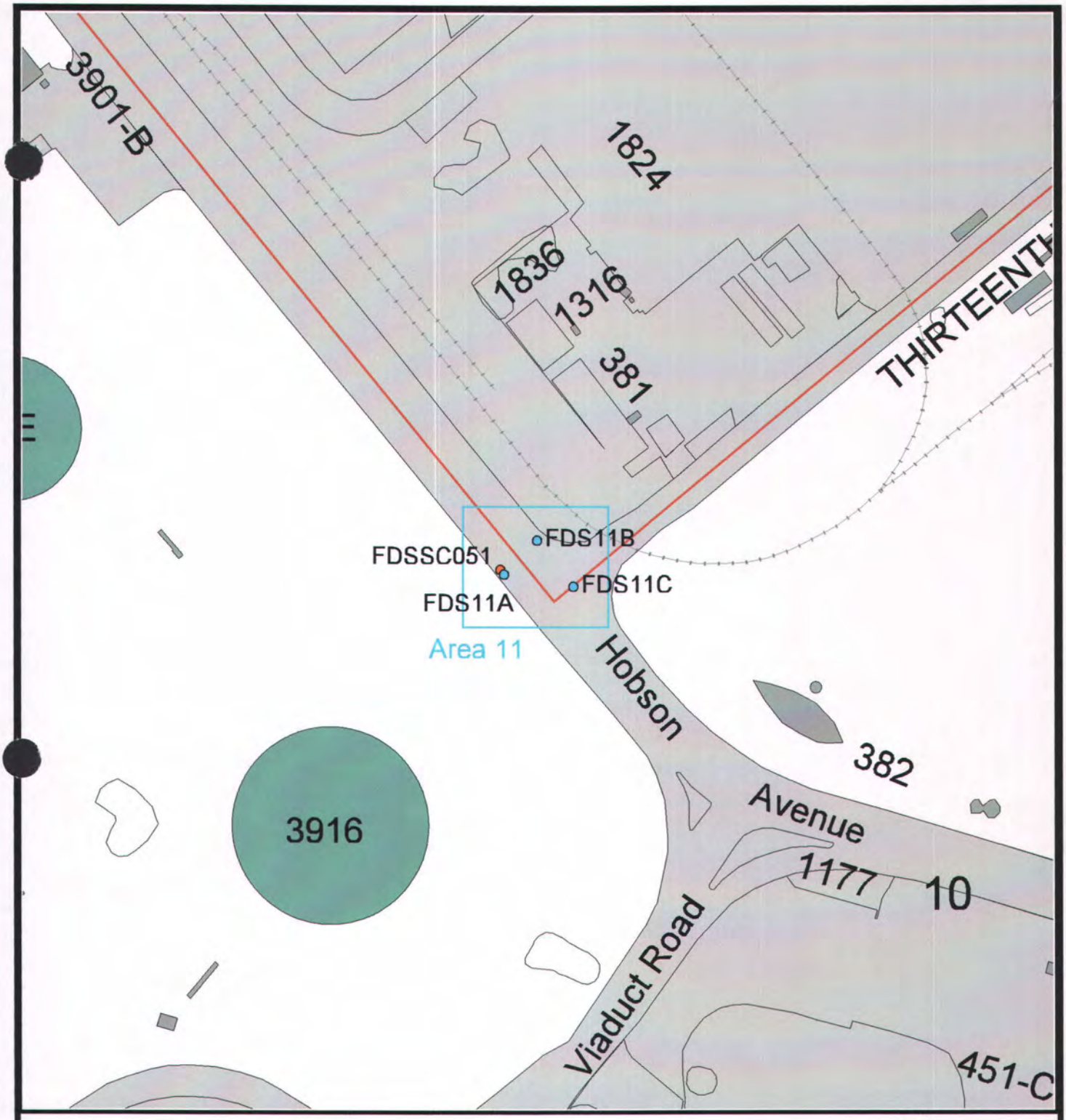
Because no RBCA-listed groundwater parameters exceeded appropriate RBSLs in either of the two sampling events at Area 11, the FDS CAR recommended and SCDHEC Petroleum Program personnel concurred that no further action was needed for this area. Figure 2-10 shows Area 11, and the sample locations for this investigation.

2.8.3 Areas 12, 13, and 14

The Phase I TPH-GRO sample results for soil borings FDSSC06501, FDSSC06601, and FDSSC06701 were 147 μg/kg, 67 μg/kg, and 106 μg/kg, respectively, prompting subsequent Phase II soil and groundwater sampling within Areas 12, 13, and 14 (Table 2.1). These areas are west of Areas 19, 20, and 21 (Figure 1-2). RBCA-listed VOCs and metals were below their respective screening levels at Areas 12, 13, and 14, but total naphthalenes exceeded the RBSL at FDCSC06601 and FDSSC06701 (Table 2.3).

No RBCA-listed VOCs were detected in groundwater samples from Areas 12, 13, and 14 and detections of RBCA-listed SVOCs were below their respective screening levels. Arsenic exceeded its RBSL (50 μg/L) during the second sampling event at location FDS13A (210 μg/L). During the third sampling event at FDS13A, arsenic (18.3 μg/L) was below the RBSL. These areas appear to be hydraulically downgradient of Areas 19, 20, and 21.

To support the FDS CAR recommendation of intrinsic remediation for exceedance of total naphthalenes detected in site soil, the follow-on Letter Report for these areas (EnSafe, June 30, 1999) recommended limited monitoring of site groundwater.



Sample Points
- Soil Boring
- Monitoring Well
- Study Zone Boundary
- Railroad
- Concrete, Pavement
- Building, Structure
- Storage Tank

0 100 Feet

Figure 2-10
Area 11 Investigation

FDS Contamination Assessment Report Addendum
CNC Charleston, South Carolina

Date: 2 March, 2001

gissafe/charleston/febr2001/figs22_27.apr

This report recommended that groundwater at well FDS14B (downgradient of FDSSC06701) and wells FDS13B and FDS13C (downgradient of FDSSC06601) be sampled and analyzed for RBCA-listed SVOCs during two quarterly sampling events to demonstrate that soil contaminants are not adversely impacting groundwater. These data were not available during preparation of this report. Figure 2-11 shows Areas 12, 13 and 14, and the sample locations for this investigation.

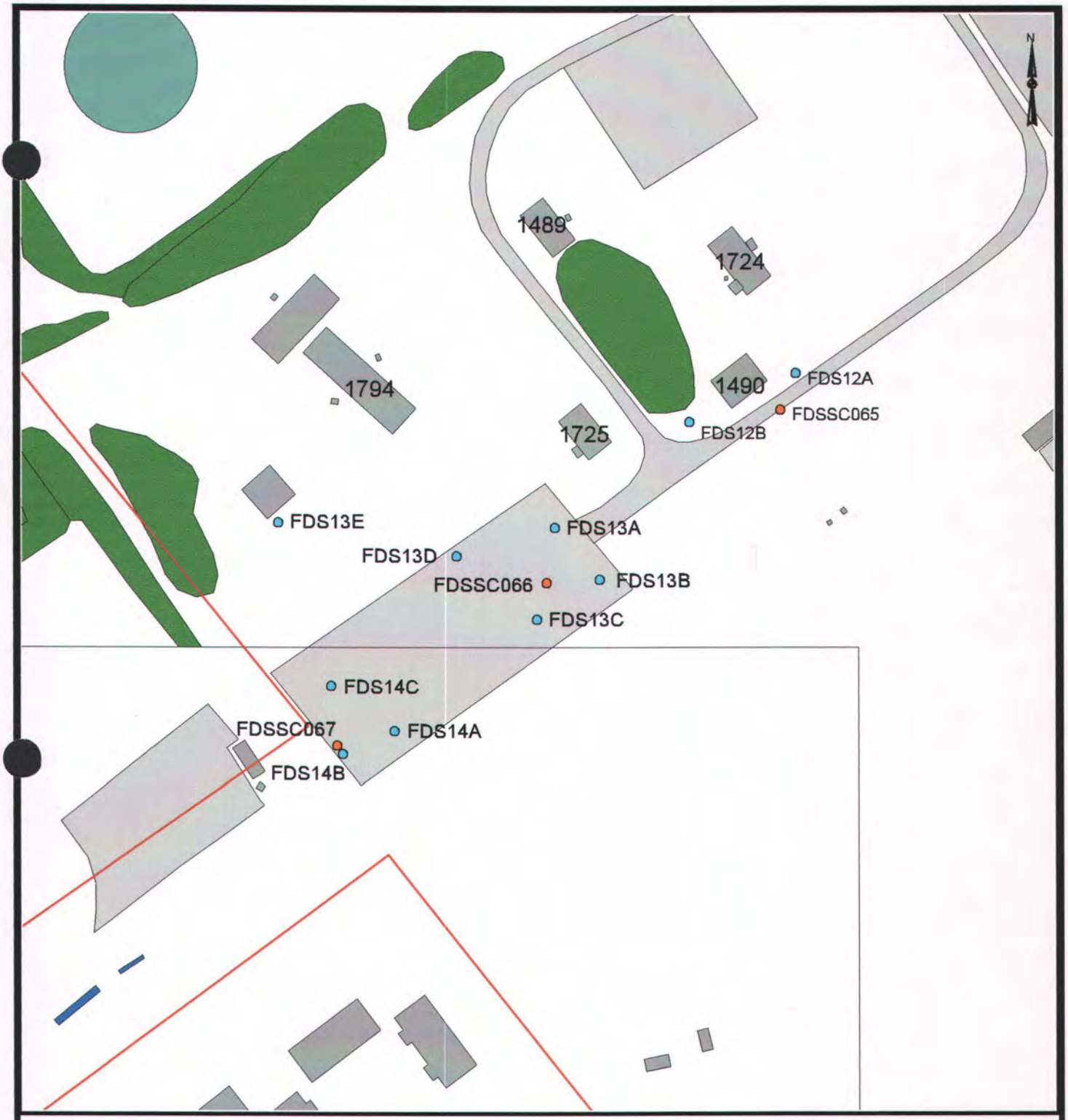
2.8.4 Area 15

Area 15 is directly west and hydraulically downgradient of Area 19 (Figure 2-1). The Phase I TPH-GRO sample result for surface-soil boring FDSSH02301 was 501 μg/kg, prompting subsequent Phase II soil and groundwater sampling at Area 15 (Table 2.1). RBCA-listed VOCs and metals were detected below their respective screening levels in soil and total naphthalenes were detected below the RBSL of 3,100,000 μg/kg at FDSSH02301. Based on these results, a 3- to 5-foot subsurface soil sample, FDSSH02302, was collected and analyzed to determine the vertical extent of naphthalenes at Area 15. No subsurface soil concentration from this sample exceeded its RBSL (Table 2.3).

No RBCA-listed VOCs or metals exceeded applicable RBSLs in groundwater samples from Area 15, and no RBCA-listed SVOCs were detected in groundwater samples (Table 2.5). Because of the absence of RBCA-listed parameters in surface and subsurface soil and groundwater at Area 15, EnSafe's follow-on Letter Report (EnSafe, January 27, 2000) recommended, and SCDHEC Petroleum Program personnel concurred that no further action for soil or groundwater was needed at this area. Figure 2-12 shows Area 15, and the sample locations for this investigation.

2.8.5 Non-RBCA Concerns at Areas 8, 11, 12, 13, 14, and 15

No detections of non-RBCA-listed soil parameters exceeded an appropriate soil-to-groundwater screening level (SSL) or RBC. No non-RBCA-listed organic detections exceeded an appropriate tap-water RBC. Non-RBCA-listed inorganic detections above appropriate tap-water RBCs and/or



Sample Points
- Soil Boring
- Monitoring Well
- Study Zone Boundary
- Trees
- Concrete, Pavement
- Building, Structure
- Drainage Structure
- Storage Tank

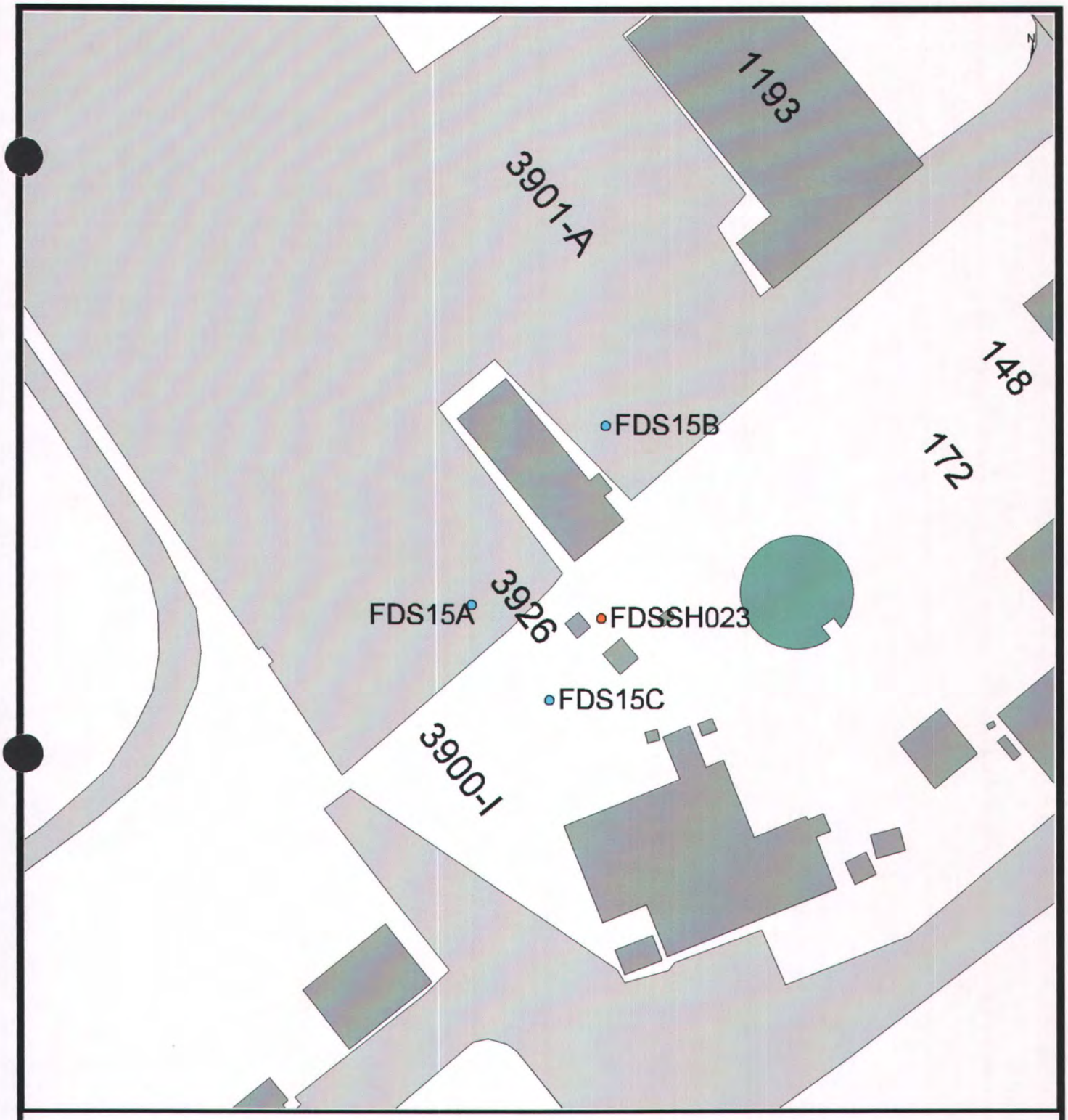
0 100 Feet

Figure 2-11
Areas 12, 13 and 14 Investigation

FDS Contamination Assessment Report Addendum
CNC Charleston, South Carolina

Date: 2 March, 2001

gissafe/charleston/febr2001/figs22_27.apr



Sample Points
- Soil Boring
- Monitoring Well
- Concrete, Pavement
- Building, Structure
- Storage Tank

0 50 Feet

Figure 2-12
Area 15 Investigation

FDS Contamination Assessment Report Addendum
CNC Charleston, South Carolina

Date: 2 March, 2001

gissafe/charleston/febr2001/figs22_27.apr

background levels occurred at each site (see Table 2.4). These included aluminum, antimony, manganese, and thallium at Area 8; antimony and manganese at Area 11; antimony, manganese, and thallium at Areas 12, 13, and 14 and also at Area 15.

3.0 GEOLOGIC INVESTIGATION

Geologic and stratigraphic information was obtained from monitoring well borings advanced during the field investigations for Areas 19, 20, and 21. A total of 13 monitoring wells were installed at Areas 19 and 20 (only temporary wells were installed at Area 21). Lithologic samples collected during drilling were classified and logged by an EnSafe geologist, as described in the approved *Final Comprehensive Sampling and Analysis Plan (CSAP) RCRA Facility Investigation (Revision No: 02)* (EnSafe/Allen and Hosall [E/A&H], July 30, 1996). Well construction information is presented in Table 3.1. Lithologic logs and monitoring well as-built diagrams are contained in Appendix A.

Site Geology and Hydrogeology

The portion of CNC where Areas 19, 20, and 21 are situated consisted of marshland along the Cooper River prior to the mid-1930s. Maps of the Charleston Navy Yard from 1935 and 1940 show the marshes southeast of the current facilities as being filled. The fill work at Areas 19, 20, and 21 was completed after 1942, commensurate with expansion of the base during World War II. As such, the stratigraphy of the uppermost soil beneath these areas mostly consists of non-native fill materials.

Geology

Based on well borings advanced at Area 19, the general stratigraphy consists of up to 6 feet of red, tan, brown and gray sandy, clayey silt fill overlying stratified units of blue, gray, black, brown and tan silt, sand and organic clay to a depth of approximately 15 ft bgs. Petroleum odors were noted in stratigraphic soil samples collected from 5 to 12 ft bgs at boring FDS19F.

Based on well borings advanced at Area 20, the general stratigraphy consists of up to 9 feet of tan, gray and black sandy and silty clay fill which overlies stratified units of black, brown,

Table 3.1
Monitoring Well Construction Data
Areas 19 and 20

Well Identifier	Date Installed	TOC Elevation (ft msl)	Ground Elevation (ft msl)	Construction Depths (ft bgs)			Groundwater Elevation* (ft msl)
				TOS	BOS	BOW	
Area 19 Wells							
FDS19A	11/18/99	9.48	9.7	3.75	13.15	15.0	2.98
FDS19B	11/19/99	9.66	9.9	2.73	12.17	14.2	1.92
FDS19C	11/19/99	9.59	9.8	2.83	12.27	14.0	1.59
FDS19D	11/19/99	9.58	9.8	2.73	12.18	14.0	0.30
FDS19E	11/19/99	9.48	9.6	2.83	12.28	14.0	3.96
FDS19F	11/19/99	12.69	10.4	2.83	13.08	14.0	5.33
FDS19G	11/19/99	12.37	10.1	2.84	12.28	15.0	5.69
Area 20 Wells							
FDS20A	11/18/99	9.39	7.1	2.75	12.15	14.0	3.47
FDS20B	11/20/99	5.82	6.0	2.70	12.20	14.0	3.68
FDS20C	11/20/99	6.15	6.3	3.50	13.45	15.5	2.59
FDS20D	11/18/99	13.0	10.3	3.75	13.15	15.0	0.94
FDS20E	11/20/99	8.55	8.6	3.35	12.69	14.0	1.77
FDS20F	11/20/99	6.22	6.3	6.0	15.34	20.0	2.60

Notes:

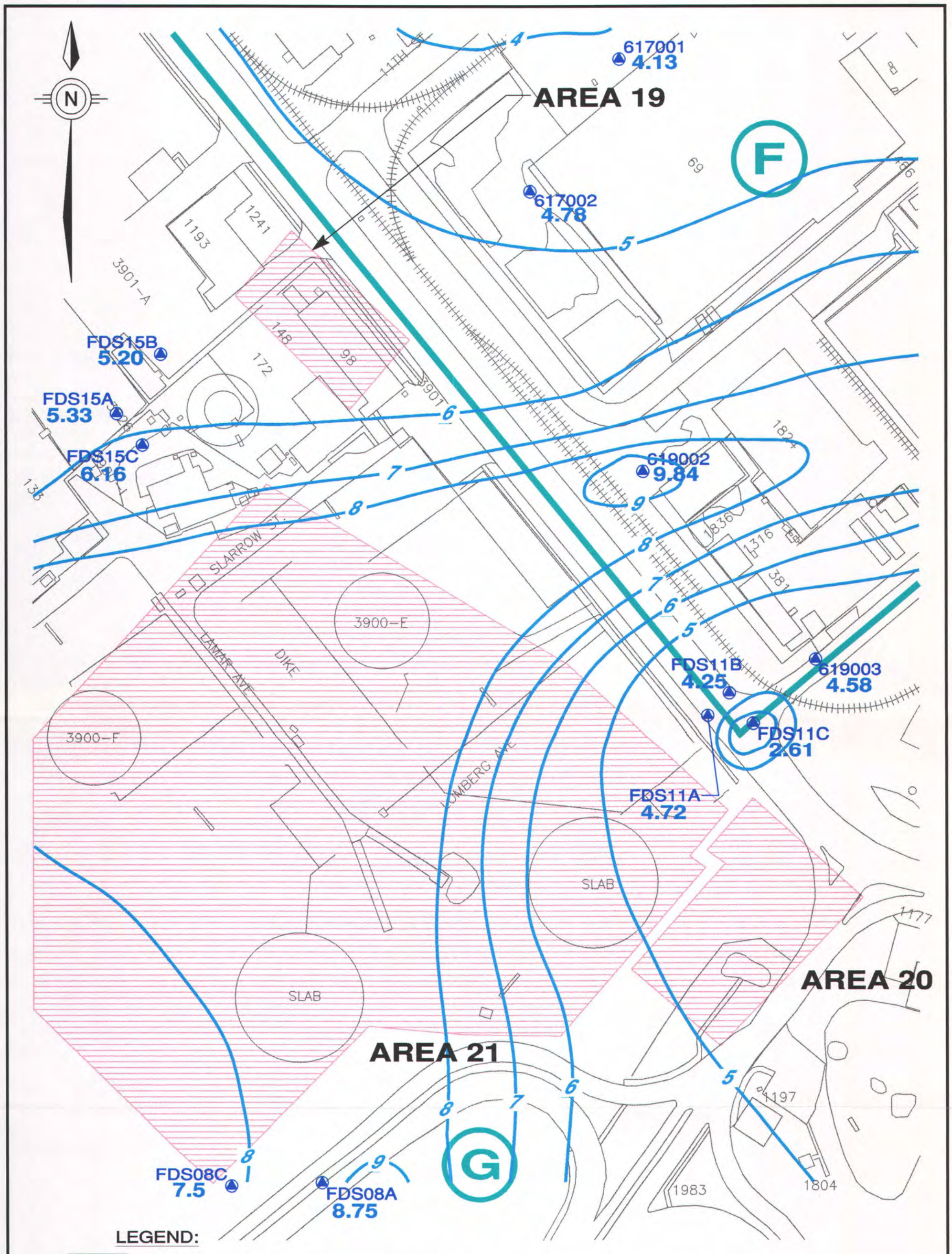
TOC	=	Top of casing.
TOS	=	Top of screen.
BOS	=	Bottom of screen.
BOW	=	Bottom of well (end cap).
ft msl	=	Feet above mean sea level.
ft bgs	=	Feet below ground surface.
*	=	Elevations are based on the most recent measurements collected 3/17/00.

reddish-brown, gray silt, sand and organic clay to a depth of approximately 20 ft bgs. Since Area 21 lies directly west of Area 20, it is expected to have similar stratigraphy.

Hydrogeology

Figure 3-1 depicts the Areas 19, 20, and 21 shallow groundwater potentiometric surface and inferred flow direction. This potentiometric map was generated from base-wide synoptic water level measurements collected during September 1999. Shallow groundwater at these areas generally occurs from 2.30 to 9.50 feet bgs. The inferred horizontal flow direction across Area 19 is generally north to northwest. Groundwater generally flows northeast across Areas 20. An apparent groundwater divide occurs across Area 21 resulting in groundwater flow to the northwest and northeast . The hydraulic gradient is steeper at Area 19 than at Areas 20 and 21.

Hydrology in these areas is influenced by Zone F monitoring well 619002, which typically exhibits a groundwater elevation up to 6 feet higher than the surrounding wells. The maximum average calculated groundwater velocity (utilizing the steepest gradient at each site) was 0.033 feet/day at Area 19 and 0.004 feet/day at Area 20, based on an estimated effective porosity (0.359) and representative hydraulic conductivities (0.32 feet/day at Area 19 and 0.37 feet/day at Area 20) as determined during slug testing of wells at adjacent FDS Areas 15 and 11, respectively.



FUEL DISTRIBUTION SYSTEM
CONTAMINATION ASSESSMENT
REPORT ADDENDUM
CHARLESTON NAVAL COMPLEX
CHARLESTON, SC

FIGURE 3-1
AREAS 19, 20 & 21
SHALLOW GROUNDWATER
POTENTIOMETRIC CONTOURS

Date: 03/14/01 | DWG Name: 0144C007

4.0 INVESTIGATION RESULTS

4.1 Area 19

Area 19 is located in the northwest corner of the Hobson Fuel Farm and was added to the scope of the FDS investigation in 1998 because of discoveries made during the closure at Facility 148 (Figure 4-1). The *Final RCRA Facility Assessment* (RFA) *for Naval Base Charleston* (E/A&H, June 6, 1995) includes AOC 623 as part of Area 19. This AOC includes the area around Building 98, the FDS fuel oil booster pumphouse. Building 98 is a single-story concrete structure, with a concrete floor sunk 5 feet below grade. Constructed in 1944, Building 98 contains numerous pumps and valves used to boost the flow of fuel oil between Pier Kilo and the Chicora Tank Farm. Also included in Area 19 is Facility 148, a rectangular 15' x 20' x 10' tank with a 21,924-gallon capacity. Built in 1948, it was used until 1987 to hold fuel oil temporarily during pipeline repair and maintenance. The tank, built of reinforced concrete, was partially buried to approximately 4 feet below grade. Facility 148 was located on the southwest side of Building 98 and was connected to the building by two 8-inch-diameter pipelines. The tank does not appear on aerial photos of the CNC area prior to 1948. As discussed in Section 2.6, the tank was closed, demolished, and removed in 1996. Previous investigations near Area 19 also included the TPH Survey performed by S&ME. Section 2.3 details the history of S&ME's investigation.

4.1.1 Field Investigation Approach

Table 4.1 depicts the Area 19 soil and groundwater DPT samples collected and analyses performed. The focus of the investigation was the area southwest of Building 98, where the Facility 148 removal and assessment took place. Additional samples were collected along the northeast side of the building to address areas of TPH contamination previously found by S&ME's survey. Initial DPT soil and groundwater sampling focused on areas of contamination identified by these previous site assessments, and additional DPT samples were collected to delineate areas of petroleum contamination found by the initial sampling. Once the impact was

Table 4.1
DPT Soil and Groundwater Samples and Analyses
Area 19

Sample Location	Sample Identifier	Medium	Date Collected	Analyses
P001	F19SP00106	Soil	1/21/99	VOCs, SVOCs
	F19GP00101	Groundwater	4/12/99	"
P002	F19SP00205	Soil	1/21/99	VOCs, SVOCs
	F19GP00201	Groundwater	4/12/99	"
P003	F19SP00305	Soil	1/21/99	VOCs, SVOCs
	F19GP00301	Groundwater	4/12/99	"
P004	F19SP00406	Soil	1/22/99	VOCs, SVOCs
	F19GP00401	Groundwater	4/12/99	"
P005	F19SP00505	Soil	1/21/99	VOCs, SVOCs
	F19GP00501	Groundwater	4/12/99	"
P006	F19SP00604	Soil	1/21/99	VOCs, SVOCs
P007	F19SP00706	Soil	1/21/99	VOCs, SVOCs
P009	F19SP00909	Soil	5/07/99	VOCs, SVOCs
	F19GP00901	Groundwater	5/10/99	"
P010	F19SP01005	Soil	5/07/99	VOCs, SVOCs
	F19GP01001	Groundwater	5/10/99	"
P011	F19SP01105	Soil	5/07/99	VOCs, SVOCs
	F19GP01101	Groundwater	5/10/99	"
P012	F19SP01205	Soil	5/07/99	VOCs, SVOCs
	F19GP01201	Groundwater	5/10/99	"
P013	F19SP01311	Soil	6/23/99	VOCs, SVOCs
	F19GP01301	Groundwater	6/24/99	"
P014	F19SP01407	Soil	6/23/99	VOCs, SVOCs
	F19GP01401	Groundwater	6/24/99	"
P015	F19SP01507	Soil	6/23/99	VOCs, SVOCs
	F19GP01501	Groundwater	6/28/99	"
P016	F19SP01611	Soil	6/23/99	VOCs, SVOCs
	F19GP01601	Groundwater	6/28/99	"
P017	F19SP01711	Soil	6/23/99	VOCs, SVOCs
	F19GP01701	Groundwater	6/28/99	"
P018	F19SP01811	Soil	6/23/99	VOCs, SVOCs
	F19GP01801	Groundwater	6/28/99	"

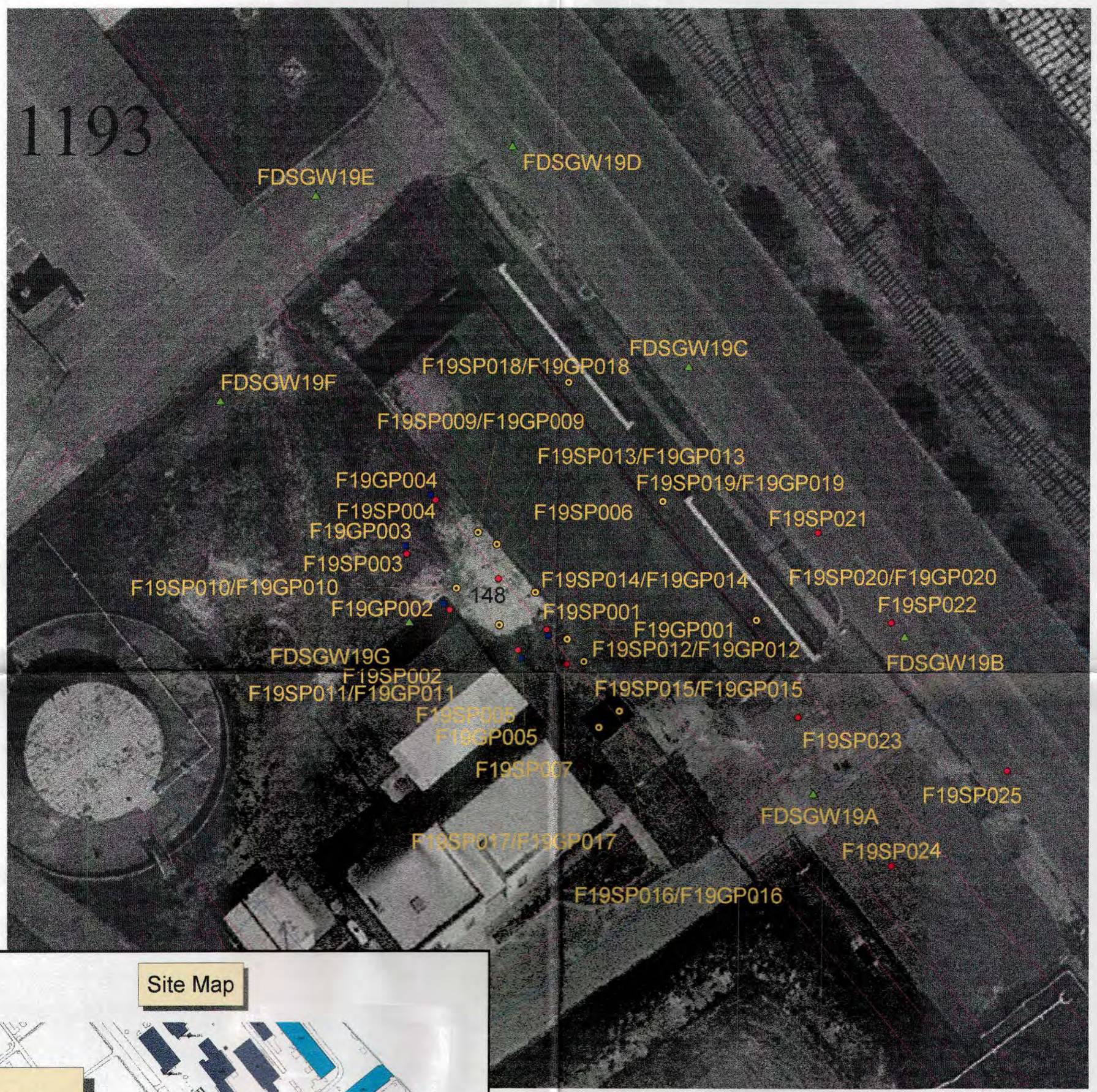
Table 4.1
DPT Soil and Groundwater Samples and Analyses
Area 19

Sample Location	Sample Identifier	Medium	Date Collected	Analyses	
P019	F19SP01912 F19GP01901	Soil Groundwater	6/23/99 6/28/99	VOCs, SVOCs "	1
P020	F19SP02010 F19GP02001	Soil Groundwater	6/23/99 6/28/99	VOCs, SVOCs "	2
P021	F19SP02103 F19CP02101*	Soil "	10/02/00 "	VOCs, SVOCs "	3
P022	F19SP02203	Soil	10/02/00	VOCs, SVOCs	4
P023	F19SP02303	Soil	10/02/00	VOCs, SVOCs "	5
P024	F19SP02403 F19SP02403*	Soil	11/15/00	VOCs, SVOCs "	6
P025	F19SP02503	Soil	11/15/00	VOCs, SVOCs "	7

Notes:
Sample P008 was not collected.
SVOCs = Semivolatile Organic Compounds.
VOCs = Volatile Organic Compounds.
* = Duplicate Sample.

Figure 4-1
Soil and Goundwater Sample Locations
Area 19

N



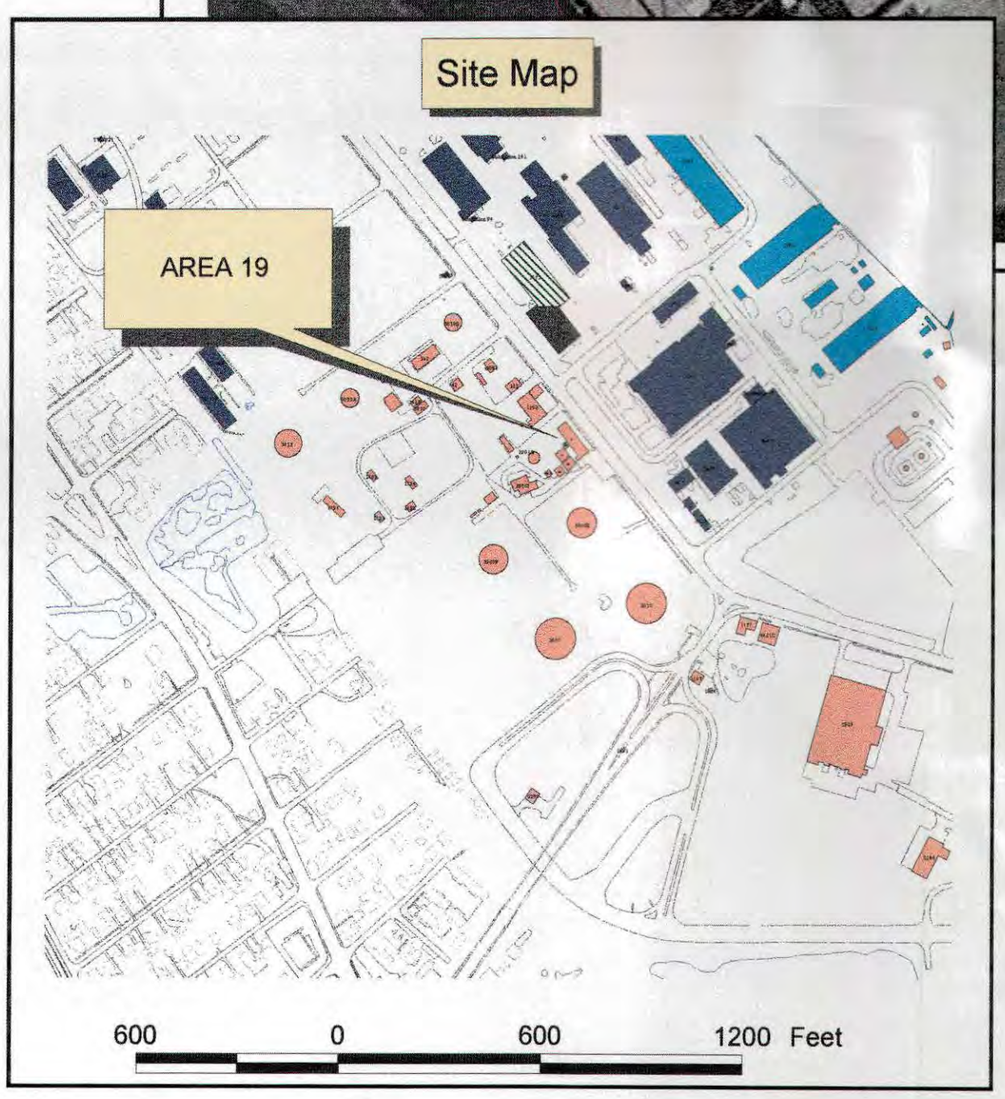


Figure 4-1
Soil and Goundwater Sample Locations
Area 19

Legend

- DPT Soil Sampling Point
- DPT Groundwater Sampling Point
- DPT Soil/Groundwater Sampling Point
- Shallow Groundwater Monitoring Well

Fuel Line
Sludge Line

Zone E
Zone F
Zone G

Demolished
New

Aerial Photo Date -- 15 March 98

50 0 50 100 Feet

characterized by groundwater DPT sampling, seven permanent shallow monitoring wells were installed to confirm the DPT results and facilitate future groundwater monitoring (see Table 3.1). Figure 4-1 presents site features, soil and groundwater DPT sample locations, and the locations of site monitoring wells. Details on the number and type of samples collected, analyses performed, and sample results are discussed below. Appendix B contains the analytical data for the field investigation of Area 19.

4.1.2 Soil Sample Results

Twenty-four DPT soil borings were advanced at Area 19 to collect subsurface samples between 3 and 12 feet bgs. These samples were analyzed for VOCs and SVOCs. No surface soil samples were collected because source areas within Area 19 included subsurface tanks and piping. Subsurface soil results from these borings were compared to the groundwater protection RBSLs. No free product was observed during the DPT sampling. Table 4.2 summarizes the analytical results of DPT soil sampling at Area 19. Figure 4-2 shows the compounds detected in DPT soil samples for this area, including exceedances of RBCA-listed parameters.

Five VOCs — benzene, ethylbenzene, xylene (total), acetone, and chloroform — were detected in subsurface soil samples collected at Area 19. Benzene detections exceeded the groundwater protection RBCA RBSL (5 μg/kg) at three DPT locations, F19SP006 (8 μg/kg), F19SP012 (18 μg/kg) and F19SP013 (26 μg/kg). Ethylbenzene exceeded the groundwater protection RBSL (1,260 μg/kg) at boring F19SP012 (7,700 μg/kg). Xylene (total) was detected at four locations, but no detections exceeded the RBSL. Acetone and chloroform are not RBSL parameters regulated under SCDHEC's RBCA Petroleum Program. Non-RBCA concerns at Area 19 are discussed in Section 4.1.4.

Table 4.2
Summary of DPT Soil Analytical Results
Area 19

Parameters	Location	Subsurface Conc.	Groundwater Protection RBSL	SSL
Volatile Organic Compounds (μg/kg)				
Acetone	F19SP023	50	NL	5,700
	F19SP024	12		
Benzene*	F19SP006	**8**	5	30
	F19SP012	**18**		
	F19SP013	**26**		
Chloroform	F19SP025	1	NL	480
Ethylbenzene*	F19SP006	83	1,260	21,000
	F19SP012	**7,700**		
	F19SP013	38		
	F19SP014	2		
	F19SP015	300		
Xylene (Total)*	F19SP006	12	42,471	148,000
	F19SP012	780		
	F19SP014	3		
	F19SP020	1		
Semivolatile Organic Compounds (μg/kg)				
Total Naphthalenes*	F19SP001	**450**	210	NL
	F19SP006	**3,000**		
	F19SP012	**159,855**		
	F19SP013	**93,000**		
	F19SP014	**6,800**		
	F19SP015	**7,100**		
	F19SP016	**1,080**		
	F19SP020	**10,300**		
	F19SP023	**2,900**		
2-Methylnaphthalene*	F19SP012	112,855	NL	73,000
	F19SP013	75,000		
	F19SP014	6,800		
	F19SP015	5,700		
	F19SP016	920		
	F19SP020	1,200		
	F19SP023	2,900		
Naphthalene*	F19SP001	**450**	210	120,000
	F19SP006	**3,000**		
	F19SP012	**47,000**		
	F19SP013	**18,000**		
	F19SP015	**1,400**		
	F19SP016	160		
	F19SP020	**9,100**		

Table 4.2
Summary of DPT Soil Analytical Results
Area 19

Parameters	Location	Subsurface Conc.	Groundwater Protection RBSL	SSL
Benzo(a)anthracene*	F19SP001	140	73,084	3,900
	F19SP004	6,300		
	F19SP006	1.900		
	F19SP009	75		
	F19SP010	56		
	F19SP012	570		
	F19SP013	600		
	F19SP014	2,100		
	F19SP023	83		
	F19SP024	205		
Benzo(b)fluoranthene*	F19SP001	110	29,097	12,000
	F19SP004	5,500		
	F19SP006	1,800		
	F19SP009	62		
	F19SP010	58		
	F19SP012	390		
	F19SP014	2,500		
	F19SP024	200		
Benzo(k)fluoranthene*	F19SP001	120	231,109	120,000
	F19SP004	5,600		
	F19SP006	2,000		
	F19SP009	54		
	F19SP010	66		
	F19SP014	2,400		
Chrysene*	F19SP001	240	12,998	1,390,000
	F19SP004	6,300		
	F19SP006	3,200		
	F19SP009	120		
	F19SP010	71		
	F19SP012	1,200		
	F19SP013	1,100		
	F19SP014	3,000		
	F19SP023	76		
	F19SP024	220		
Acenaphthene	F19SP020	1,900	NL	1,300,000
	F19SP023	240		
	F19SP024	140		
Anthracene	F19SP014	910	NL	2.6E+07
	F19SP023	100		
	F19SP024	72		
Benzo(a)pyrene	F19SP014	2,400	NL	17,000
	F19SP023	52		
	F19SP024	160		
Benzo(g,h,i)perylene	F19SP014	940	NL	2.3E+07

Table 4.2
Summary of DPT Soil Analytical Results
Area 19

Parameters	Location	Subsurface Conc.	Groundwater Protection RBSL	SSL
Dibenzofuran	F19SP020	790	NL	27,000
	F19SP023	240		
Fluoranthene	F19SP014	4,900	NL	1.3E+07
	F19SP020	160		
	F19SP023	300		
	F19SP024	370		
Fluorene	F19SP013	7,100	NL	1,700,000
	F19SP014	1,600		
	F19SP015	720		
	F19SP016	150		
	F19SP020	880		
	F19SP023	540		
Indeno(1,2,3-cd)pyrene	F19SP014	1,000	NL	34,000
Phenanthrene	F19SP013	14,000	NL	2,700,000
	F19SP014	5,700		
	F19SP015	1,200		
	F19SP020	1,300		
	F19SP023	710		
	F19SP024	115		
Pyrene	F19SP014	5,900	NL	9,400,000
	F19SP020	100		
	F19SP023	210		
	F19SP024	590		
bis(2-ethylhexyl)phthalate	F19SP015	25	NL	740,000
	F19SP016	23		

Notes:
NL = Not listed.
SSL = Soil-to-groundwater Screening Level.
μg/kg = Micrograms per kilogram. Derived from nearby AOCs 613 and 617 in Zone F (E/A&H, December 31, 1997).
* = RBCA-Regulated Parameter.
RBSLs for groundwater protection from the *South Carolina Risk-Based Corrective Action for Petroleum Releases* (SCDHEC, January 5, 1998) were used as reference concentrations.
Bolded concentrations exceed RBSLs.

Figure 4-3
Summary of DPT Groundwater Sample Results
Area 19

N

F19GP004

Parameter	Result	Units
Total PAHs	2.8	UG/L
Benzo(b)fluoranthene	0.8	UG/L
Benzo(k)fluoranthene	1	UG/L
Chrysene	1	UG/L

F19GP013

Parameter	Result	Units
Benzene	**32**	**UG/L**
Ethylbenzene	40	UG/L
Xylene (Total)	13	UG/L
Total PAHs	**305**	**UG/L**
2-Methylnaphthalene	**190**	**UG/L**
Naphthalene	**100**	**UG/L**
Benzo(a)anthracene	5	UG/L
Benzo(a)pyrene	2	UG/L
Benzo(b)fluoranthene	2	UG/L
Benzo(g,h,i)perylene	0.8	UG/L
Chrysene	8	UG/L
Acenaphthene	24	UG/L
bis(2-Ethylhexyl)phthalate	3	UG/L
Dibenzofuran	22	UG/L
Fluoranthene	5	UG/L
Fluorene	40	UG/L
Phenanthrene	73	UG/L
Phenol	1	UG/L
Pyrene	9	UG/L

F19GP018

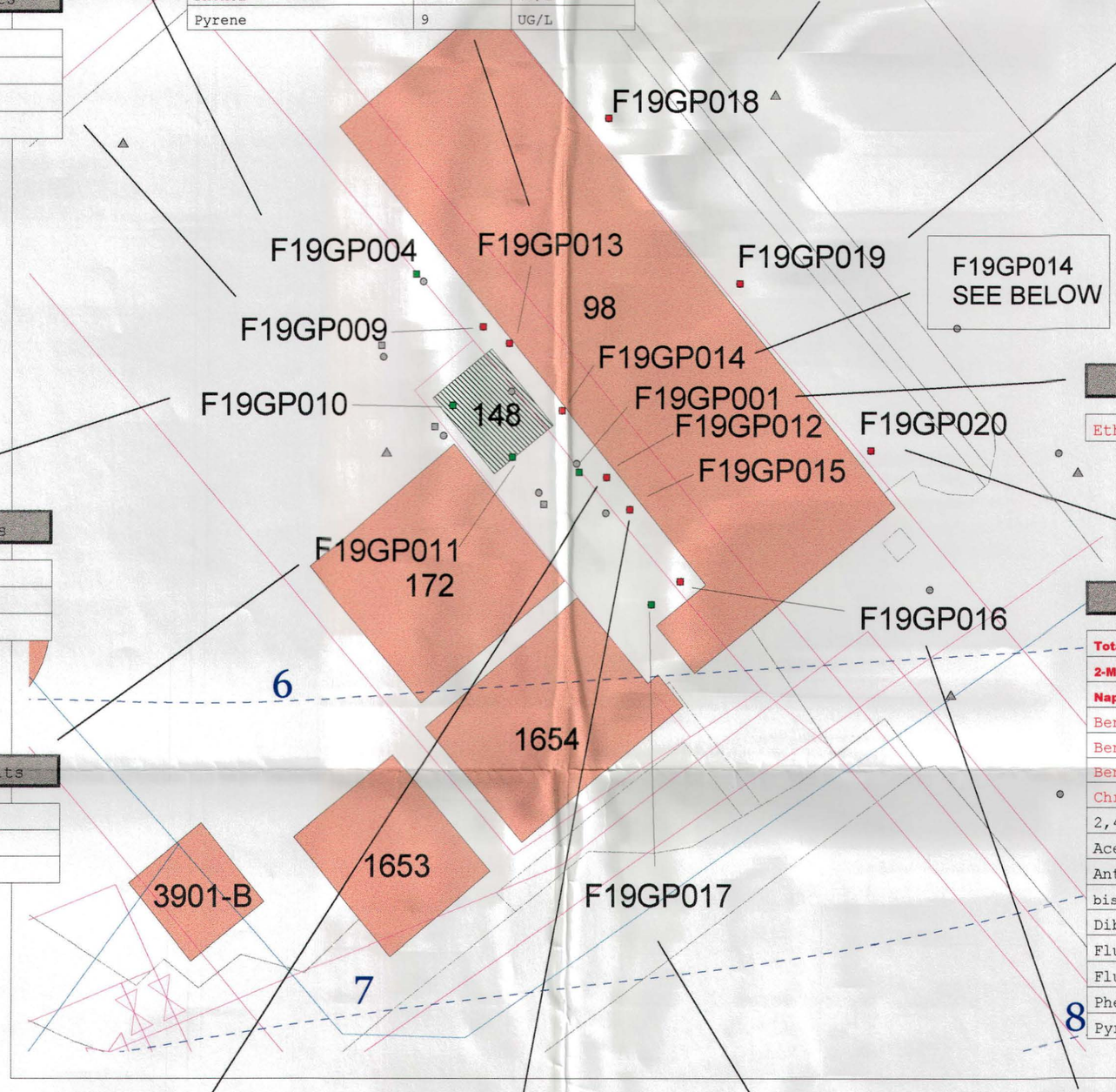
Parameter	Result	Units
Total PAHs	**41**	**UG/L**
2-Methylnaphthalene	5	UG/L
Naphthalene	**16**	**UG/L**
Benzo(a)anthracene	5	UG/L
Benzo(a)pyrene	3	UG/L
Benzo(b)fluoranthene	2	UG/L
Benzo(k)fluoranthene	3	UG/L
Chrysene	7	UG/L
Acenaphthene	42	UG/L
Anthracene	10	UG/L
bis(2-Ethylhexyl)phthalate	0.7	UG/L
Dibenzofuran	17	UG/L
Fluoranthene	22	UG/L
Fluorene	24	UG/L
Phenanthrene	48	UG/L
Pyrene	17	UG/L

F19GP009

Parameter	Result	Units
Benzene	**8**	**UG/L**
Total PAHs	**46**	**UG/L**
2-Methylnaphthalene	**43.6**	**UG/L**
Naphthalene	2	UG/L

F19GP019

Parameter	Result	Units
Total PAHs	22	UG/L
2-Methylnaphthalene	**10**	**UG/L**
Naphthalene	**12**	**UG/L**
Acenaphthene	15	UG/L
Anthracene	1	UG/L
bis(2-Ethylhexyl)phthalate	1	UG/L
Dibenzofuran	5	UG/L
Fluoranthene	1	UG/L
Fluorene	7	UG/L
Phenanthrene	6	UG/L



F19GP001

Parameter	Result	Units
Ethylbenzene	1	UG/L

F19GP010

Parameter	Result	Units
Total PAHs	2.4	UG/L
2-Methylnaphthalene	1.58	UG/L
Naphthalene	0.8	UG/L

F19GP020

Parameter	Result	Units
Total PAHs	**464**	**UG/L**
2-Methylnaphthalene	**15**	**UG/L**
Naphthalene	**440**	**UG/L**
Benzo(a)anthracene	2	UG/L
Benzo(b)fluoranthene	2	UG/L
Benzo(k)fluoranthene	2	UG/L
Chrysene	3	UG/L
2,4-Dimethylphenol	12	UG/L
Acenaphthene	32	UG/L
Anthracene	3	UG/L
bis(2-Ethylhexyl)phthalate	2	UG/L
Dibenzofuran	11	UG/L
Fluoranthene	6	UG/L
Fluorene	14	UG/L
Phenanthrene	20	UG/L
Pyrene	6	UG/L

F19GP011

Parameter	Result	Units
Total PAHs	7.8	UG/L
2-Methylnaphthalene	4.84	UG/L
Naphthalene	3	UG/L

F19GP016

Parameter	Result	Units
Total PAHs	**161**	**UG/L**
2-Methylnaphthalene	**140**	**UG/L**
Naphthalene	**18**	**UG/L**
Benzo(a)anthracene	0.8	UG/L
Benzo(b)fluoranthene	0.7	UG/L
Chrysene	1	UG/L
bis(2-Ethylhexyl)phthalate	1	UG/L
Fluorene	20	UG/L
Phenanthrene	26	UG/L
Pyrene	3	UG/L

F19GP012

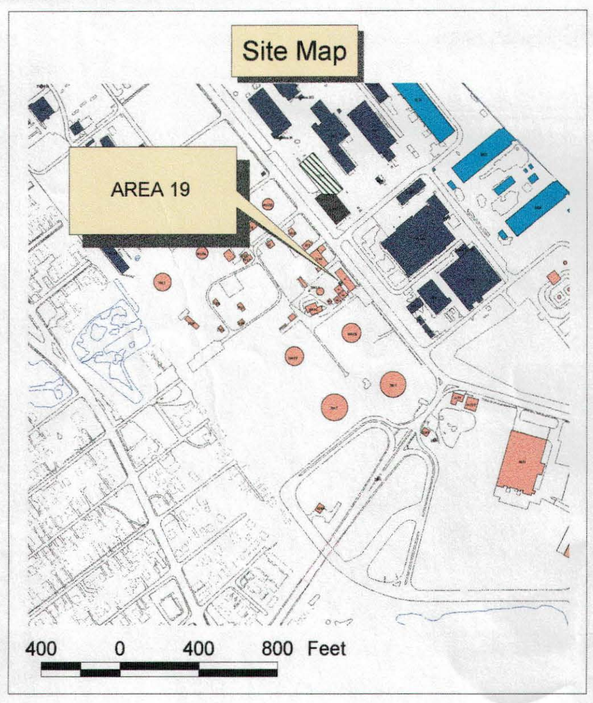
Parameter	Result	Units
Total PAHs	**354216**	**UG/L**
Ethylbenzene	44	UG/L
2-Methylnaphthalene	**260816**	**UG/L**
Xylene (Total)	2	UG/L
Naphthalene	**91000**	**UG/L**
Chrysene	**2400**	**UG/L**

F19GP015

Parameter	Result	Units
Xylene (Total)	2	UG/L
Total PAHs	**1551**	**UG/L**
2-Methylnaphthalene	**1300**	**UG/L**
Naphthalene	**240**	**UG/L**
Chrysene	**11**	**UG/L**
Dibenzofuran	42	UG/L
Fluorene	130	UG/L
Phenanthrene	240	UG/L

F19GP017

Parameter	Result	Units
Total PAHs	7	UG/L
2-Methylnaphthalene	7	UG/L
bis(2-Ethylhexyl)phthalate	2	UG/L
Fluorene	2	UG/L
Phenanthrene	2	UG/L



F19GP014

Parameter	Result	Units
Benzene	2	UG/L
Total PAHs	**133**	**UG/L**
2-Methylnaphthalene	**130**	**UG/L**
Benzo(a)anthracene	1	UG/L
Benzo(a)pyrene	0.6	UG/L
Chrysene	2	UG/L
Acenaphthene	8	UG/L
bis(2-Ethylhexyl)phthalate	5	UG/L
Dibenzofuran	8	UG/L
Fluoranthene	2	UG/L
Fluorene	16	UG/L
Phenanthrene	28	UG/L
Pyrene	3	UG/L

50 0 50 100 Feet

Figure 4-3
Summary of DPT Groundwater Sample Results
Area 19

Legend

RBCA-listed Groundwater Parameters:

Parameter*	RBSL**	Units
Benzene	5	UG/L
Ethylbenzene	700	UG/L
Xylene (Total)	10,000	UG/L
Total PAHs	25	UG/L
2-Methylnapthalene	10	UG/L
Naphthalene	10	UG/L
Benzo(a)anthracene	10	UG/L
Benzo(b)fluoranthene	10	UG/L
Benzo(k)fluoranthene	10	UG/L
Chrysene	10	UG/L

* Only detected parameters are presented
** RBSL for groundwater

Fuel Line
Sludge Line
Zone E
Zone F
Zone G
Demolished
New

8' -- Groundwater Elevation, contour interval 1 ft.
Water Level Date -- 30 Sept 99
RBCA -- Risk-Based Corrective Action.
RBSL -- Risk-Based Screening Level.
UG/L -- Micrograms per liter
■ -- RBSL exceedances at this location
■ -- Detections with no RBSL exceedances
■ -- DPT Groundwater Sampling Point with no detections
● -- DPT Soil Sampling Point
▲ -- Shallow Groundwater Monitoring Well
Bold Text -- Concentration exceeds appropriate RBSL
RED TEXT -- RBCA-listed Parameter
BLACK TEXT -- Non-RBCA-listed Parameter

Seventeen SVOCs were detected in Area 19 subsurface soil samples. Naphthalene and/or total naphthalenes exceeded the groundwater protection RBSL (210 μg/kg for each constituent) at DPT boring locations F19SP001, F19SP006, F19SP012 through F19SP016, F19SP020, and F19SP023 (see Table 4.2). Only total naphthalenes exceeded the RBSL at F19SP014 and F19SP016. With the exception of boring locations F19SP020 and F19SP023, these borings are located along the southwest wall of Building 98, within and adjacent to the area of petroleum-contaminated soil noted in SPORTENVDETCHASN's report for the Facility 148 removal. Borings F19SP020 and F19SP023 are located near the southeast corner of Building 98 and these detections appear to be related to the area of petroleum contamination identified during SM&E's TPH survey along the Hobson Avenue pipeline. No other organic detections in soil exceeded their respective RBCA groundwater protection RBSLs. The RBCA soil exceedances — benzene, ethylbenzene, total naphthalenes, and naphthalene — at Area 19 are located primarily along the southwestern edge of Building 98. These exceedances are most likely related to releases at Facility 148. The exceedances at F19SP020 and F19SP023 appear to be related to the fuel pipeline which parallels the building along Hobson Avenue. The areas of contaminated soil and groundwater at the site are delineated by locations where parameters either were not detected or were detected below applicable RBSLs.

4.1.3 Groundwater Sample Results

DPT

Seventeen shallow DPT groundwater samples were collected at Area 19 (Figure 4-1) and analyzed for VOCs and SVOCs. The DPT sampling points were temporary well points constructed from 1-inch-diameter PVC risers attached to 5-foot sections of 1-inch-diameter factory-slotted well screen. A DPT rig was used to install these temporary wells which did not have filter-packs and were not grouted (they were later abandoned). Table 4.3 summarizes the results of DPT groundwater analysis at Area 19. No free product was observed during sampling. Figure 4-3 shows the compounds detected in DPT groundwater samples for this area, including exceedances of RBCA-listed parameters.

Table 4.3
Summary of DPT Groundwater Analytical Results
Area 19

Parameters	Location	Concentration	RBSL	Tap Water RBC	MCL
Volatile Organic Compounds (μg/L)					
Benzene*	F19GP009	**8**	5	0.36	5
	F19GP013	**32**			
	F19GP014	2			
Ethylbenzene*	F19GP001	1	700	130	700
	F19GP012	44			
	F19GP013	40			
Xylene (Total)*	F19GP012	2	10,000	1200	10,000
	F19GP013	13			
	F19GP015	2			
Semivolatile Organic Compounds (μg/L)					
Total PAHs*	F19GP004	2.8	25	NL	NL
	F19GP009	**46**			
	F19GP010	2.4			
	F19GP011	7.8			
	F19GP012	**354,216**			
	F19GP013	**305**			
	F19GP014	**133**			
	F19GP015	**1,551**			
	F19GP016	**161**			
	F19GP017	7			
	F19GP018	**41**			
	F19GP019	22			
	F19GP020	**464**			
2-Methylnaphthalene*	F19GP009	**43.6**	10	12	NL
	F19GP010	1.58			
	F19GP011	4.84			
	F19GP012	**260,816**			
	F19GP013	**190**			
	F19GP014	**130**			
	F19GP015	**1,300**			
	F19GP016	**140**			
	F19GP017	7			
	F19GP018	5			
	F19GP019	**10**			
	F19GP020	**15**			
Naphthalene*	F19GP009	2	10	0.65	NL
	F19GP010	0.8			
	F19GP011	3			
	F19GP012	**91,000**			
	F19GP013	**100**			
	F19GP015	**240**			
	F19GP016	**18**			
	F19GP018	**16**			
	F19GP019	**12**			
	F19GP020	**440**			

Table 4.3
Summary of DPT Groundwater Analytical Results
Area 19

Parameters	Location	Concentration	RBSL	Tap Water RBC	MCL
Benzo(a)anthracene*	F19GP013	5	10	0.092	NL
	F19GP014	1			
	F19GP016	0.8			
	F19GP018	5			
	F19GP020	2			
Benzo(b)fluoranthene*	F19GP004	0.8	10	0.092	NL
	F19GP013	2			
	F19GP016	0.7			
	F19GP018	2			
	F19GP020	2			
Benzo(k)fluoranthene*	F19GP004	1	10	0.92	NL
	F19GP018	3			
	F19GP020	2			
Chrysene*	F19GP004	1	10	9.2	NL
	F19GP012	**2,400**			
	F19GP013	8			
	F19GP014	2			
	F19GP015	**11**			
	F19GP016	1			
	F19GP018	7			
	F19GP020	3			
2,4-Dimethylphenol	F19GP020	12	NL	73	NL
Acenaphthene	F19GP013	24	NL	37	NL
	F19GP014	8			
	F19GP018	42			
	F19GP019	15			
	F19GP020	32			
Anthracene	F19GP018	10	NL	180	NL
	F19GP019	1			
	F19GP020	3			
Benzo(a)pyrene	F19GP013	2	NL	0.0092	NL
	F19GP014	0.6			
	F19GP018	3			
Benzo(g,h,i)perylene	F19GP013	0.8	NL	73	NL
Dibenzofuran	F19GP013	22	NL	2.4	NL
	F19GP014	8			
	F19GP015	42			
	F19GP018	17			
	F19GP019	5			
	F19GP020	11			

Table 4.3
Summary of DPT Groundwater Analytical Results
Area 19

Parameters	Location	Concentration	RBSL	Tap Water RBC	MCL
Fluoranthene	F19GP013	5	NL	150	NL
	F19GP014	2			
	F19GP018	22			
	F19GP019	1			
	F19GP020	6			
Fluorene	F19GP013	40	NL	24	NL
	F19GP014	16			
	F19GP015	130			
	F19GP016	20			
	F19GP017	2			
	F19GP018	24			
	F19GP019	7			
	F19GP020	14			
Phenanthrene	F19GP013	73	NL	18	NL
	F19GP014	28			
	F19GP015	240			
	F19GP016	26			
	F19GP017	2			
	F19GP018	48			
	F19GP019	6			
	F19GP020	20			
Phenol	F19GP013	1	NL	2,200	NL
Pyrene	F19GP013	9	NL	18	NL
	F19GP014	3			
	F19GP016	3			
	F19GP018	17			
	F19GP020	6			
Bis(2-ethylhexyl)phthalate	F19GP013	3	NL	4.8	6
	F19GP014	5			
	F19GP016	1			
	F19GP017	2			
	F19GP018	0.70			
	F19GP019	1			
	F19GP020	2			

Notes:
NL = Not listed.
μg/L = Micrograms per liter.
* = RBCA-Regulated Parameter.
MCL = Maximum Contaminant Level
RBSLs from the *South Carolina Risk-Based Corrective Action for Petroleum Releases* (SCDHEC, January 5, 1998) were used as reference concentrations.
Bolded concentrations exceed RBSL.

Figure 4-2
Summary of DPT Soil Sample Results
Area 19

N

F19SP00406

Parameter	Result	Units
Benzo(a)anthracene	6300	UG/KG
Benzo(b)fluoranthene	5500	UG/KG
Benzo(k)fluoranthene	5600	UG/KG
Chrysene	6300	UG/KG

F19SP00909

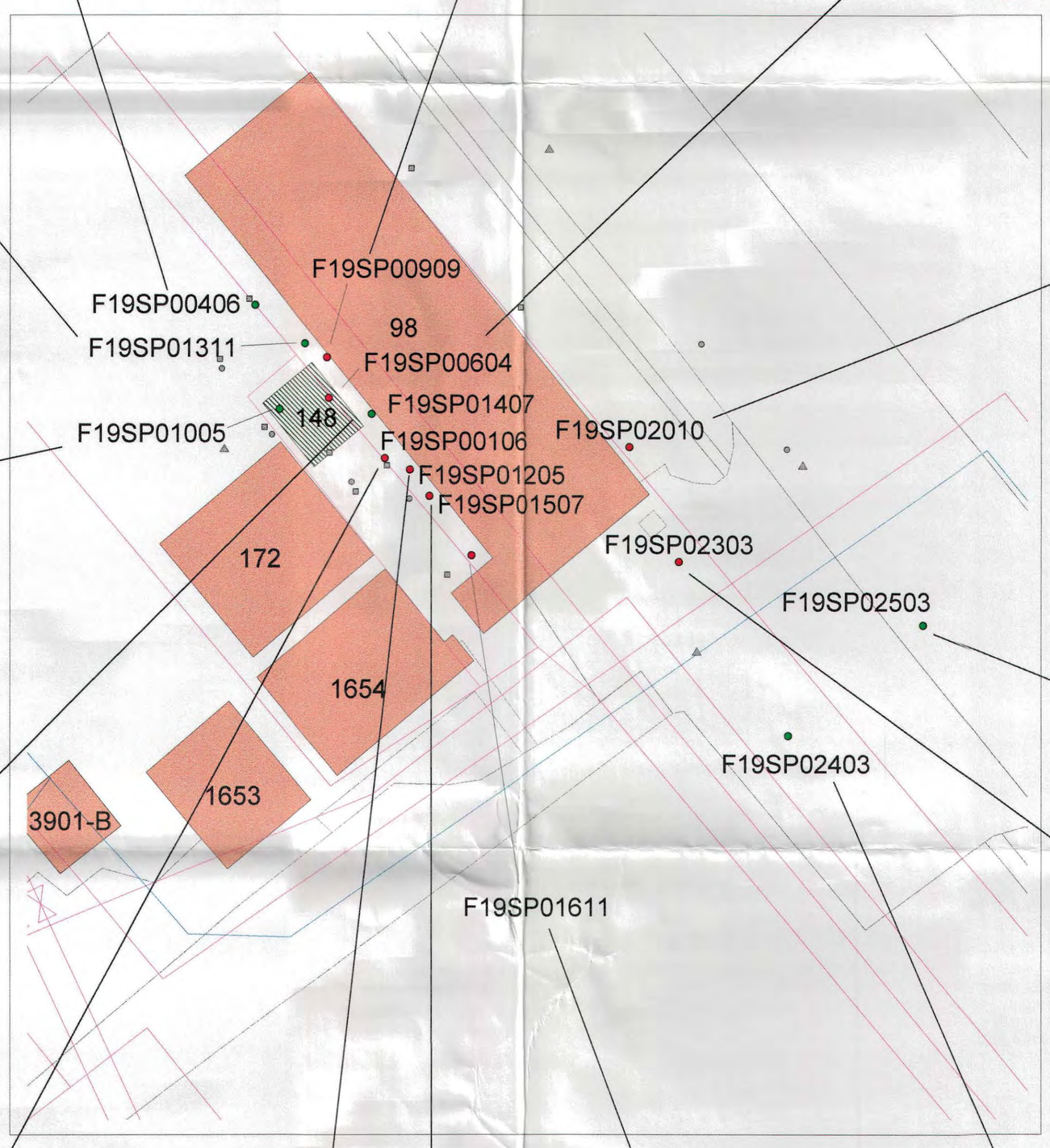
Parameter	Result	Units
Benzo(a)anthracene	75	UG/KG
Benzo(b)fluoranthene	62	UG/KG
Benzo(k)fluoranthene	54	UG/KG
Chrysene	120	UG/KG

F19SP00604

Parameter	Result	Units
Benzene	**8**	**UG/KG**
Ethylbenzene	83	UG/KG
Xylene (Total)	12	UG/KG
Total Naphthalenes	**3000**	**UG/KG**
Naphthalene	**3000**	**UG/KG**
Benzo(a)anthracene	1900	UG/KG
Benzo(b)fluoranthene	1800	UG/KG
Benzo(k)fluoranthene	2000	UG/KG
Chrysene	3200	UG/KG

F19SP01311

Parameter	Result	Units
Benzene	**26**	**UG/KG**
Ethylbenzene	38	UG/KG
Total Naphthalenes	**93000**	**UG/KG**
2-Methylnaphthalene	75000	UG/KG
Naphthalene	18000	UG/KG
Benzo(a)anthracene	600	UG/KG
Chrysene	1100	UG/KG
Fluorene	7100	UG/KG
Phenanthrene	14000	UG/KG



F19SP02010

Parameter	Result	Units
Xylene (Total)	1	UG/KG
Total Naphthalenes	**10300**	**UG/KG**
Naphthalene	9100	UG/KG
2-Methylnaphthalene	1200	UG/KG
Acenaphthene	1900	UG/KG
Dibenzofuran	790	UG/KG
Fluoranthene	160	UG/KG
Fluorene	880	UG/KG
Phenanthrene	1300	UG/KG
Pyrene	100	UG/KG

F19SP01005

Parameter	Result	Units
Benzo(a)anthracene	56	UG/KG
Benzo(b)fluoranthene	58	UG/KG
Benzo(k)fluoranthene	66	UG/KG
Chrysene	71	UG/KG

F19SP02503

Parameter	Result	Units
Chloroform	1	UG/KG

F19SP01407

Parameter	Result	Units
Ethylbenzene	2	UG/KG
Xylene (Total)	3	UG/KG
Total Naphthalenes	6800	UG/KG
2-Methylnaphthalene	6800	UG/KG
Benzo(a)anthracene	2100	UG/KG
Benzo(b)fluoranthene	2500	UG/KG
Benzo(k)fluoranthene	2400	UG/KG
Chrysene	3000	UG/KG
Benzo(a)pyrene	2400	UG/KG
Benzo(g,h,i)perylene	940	UG/KG
Anthracene	910	UG/KG
Fluoranthene	4900	UG/KG
Fluorene	1600	UG/KG
Indeno(1,2,3-cd)pyre	1000	UG/KG
Phenanthrene	5700	UG/KG
Pyrene	5900	UG/KG

F19SP02303

Parameter	Result	Units
Acetone	50	UG/KG
Total Naphthalenes	**2900**	**UG/KG**
2-Methylnaphthalene	2900	UG/KG
Benzo(a)anthracene	83	UG/KG
Benzo(a)pyrene	52	UG/KG
Chrysene	76	UG/KG
Acenaphthene	240	UG/KG
Anthracene	100	UG/KG
Dibenzofuran	240	UG/KG
Fluoranthene	300	UG/KG
Fluorene	540	UG/KG
Phenanthrene	710	UG/KG
Pyrene	210	UG/KG

F19SP00106

Parameter	Result	Units
Total Naphthalenes	**450**	**UG/KG**
Naphthalene	**450**	**UG/KG**
Benzo(a)anthracene	140	UG/KG
Benzo(b)fluoranthene	110	UG/KG
Benzo(k)fluoranthene	120	UG/KG
Chrysene	240	UG/KG

F19SP01205

Parameter	Result	Units
Benzene	**18**	**UG/KG**
Ethylbenzene	**7700**	**UG/KG**
Xylene (Total)	780	UG/KG
Total Naphthalenes	**159855**	**UG/KG**
2-Methylnaphthalene	**112855**	**UG/KG**
Naphthalene	47000	UG/KG
Benzo(a)anthracene	570	UG/KG
Benzo(b)fluoranthene	390	UG/KG
Chrysene	1200	UG/KG

F19SP01611

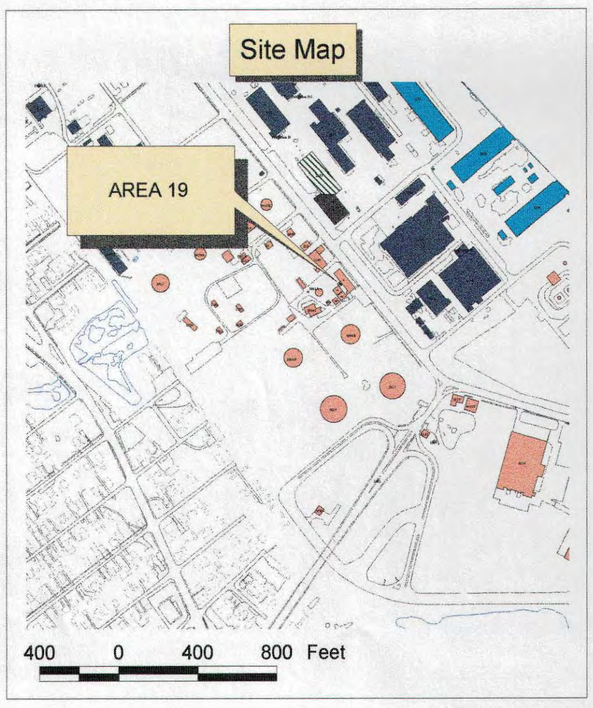
Parameter	Result	Units
Total Naphthalenes	**1080**	**UG/KG**
Naphthalene	160	UG/KG
2-Methylnaphthalene	920	UG/KG
bis(2-Ethylhexyl)phthalate	23	UG/KG
Fluorene	150	UG/KG

F19SP02403

Parameter	Result	Units
Acetone	12	UG/KG
Benzo(a)anthracene	205	UG/KG
Benzo(b)fluoranthene	200	UG/KG
Chrysene	220	UG/KG
Acenaphthene	140	UG/KG
Anthracene	72	UG/KG
Benzo(a)pyrene	160	UG/KG
Fluoranthene	370	UG/KG
Phenanthrene	115	UG/KG
Pyrene	590	UG/KG

F19SP01507

Parameter	Result	Units
Ethylbenzene	300	UG/KG
Total Naphthalenes	**7100**	**UG/KG**
2-Methylnaphthalene	5700	UG/KG
Naphthalene	**1400**	**UG/KG**
bis(2-Ethylhexyl)phthalate	25	UG/KG
Fluorene	720	UG/KG
Phenanthrene	1200	UG/KG



50 0 50 100 Feet

Figure 4-2
Summary of DPT Soil Sample Results
Area 19

Legend

RBCA-listed Soil Parameters:

Parameter*	RBSL**	UNITS
Benzene	5	UG/KG
Ethylbenzene	1,260	UG/KG
Xylene (Total)	42,471	UG/KG
Total Naphthalenes	210	UG/KG
Naphthalene	210	UG/KG
Benzo(a)anthracene	73,084	UG/KG
Benzo(b)fluoranthene	29,097	UG/KG
Benzo(k)fluoranthene	23,1109	UG/KG
Chrysene	12,998	UG/KG

* Only detected parameters are presented
** Subsurface soil RBSL for sandy soil, less than 5-feet to groundwater (soil-to-groundwater leachability)

Zone E
Zone F
Zone G
Demolished
New

RBCA -- Risk-Based Corrective Action
RBSL -- Risk-Based Screening Level
UG/KG -- Micrograms per kilogram
● -- RBSL exceedances at this location
● -- Detections with no RBSL exceedances
● -- DPT Soil Sampling Point, no detections
■ -- DPT Groundwater Sampling Point
▲ -- Shallow Groundwater Monitoring Well

Bold Text -- Concentration exceeds appropriate RBSL
RED TEXT -- RBCA-listed Parameter
BLACK TEXT -- Non-RBCA-listed Parameter

The DPT groundwater results revealed VOC and SVOC concentrations above groundwater RBCA RBSLs along the southwest side of Building 98. Benzene exceeded the RBSL (5 μg/L) at two sampling points — F19GP009 (8 μg/L) and F19GP013 (32 μg/L) — directly adjacent to the Facility 148 excavation area. Several DPT groundwater sample locations along the southwest wall of Building 98 (F19GP009 and F19GP012 through F19GP016 [see Table 4.3]) exceeded the total PAHs RBSL (25 μg/L). The individual analyte RBSLs (10 μg/L) for 2-methylnaphthalene, naphthalene and chrysene were also exceeded in two or more of these samples. Location F19GP012, along the southwest wall of Building 98 (near Facility 148) exhibited relatively high concentrations of chrysene (2,400 μg/L), naphthalene (91,000 μg/L), 2-methylnaphthalene (260,816 μg/L) and total PAHs (354,216 μg/L). Samples from locations F19GP018 through F19GP020, along the northwest side of Building 98 and Hobson Avenue, also exhibited concentrations of 2-methylnaphthalene, naphthalene and/or total PAHs above their respective RBSLs (see Table 4.3). The RBCA groundwater exceedances included benzene, total PAHs, 2-methylnaphthalene, naphthalene and chrysene. As with the DPT soil exceedances, DPT groundwater exceedances primarily occurred along the southwestern edge of Building 98, and appear to be related to releases at Facility 148. Exceedances at F19GP018 through F19GP020 appear to be related to the fuel pipeline that parallels the building along Hobson Avenue.

Monitoring Wells

Based on the DPT groundwater analytical results, seven shallow monitoring wells were installed at Area 19 to characterize shallow groundwater at the site. Hollow-stem auger procedures were used to install these wells. Table 4.4 presents the groundwater samples collected and analyses performed on monitoring well samples from Area 19. Samples were analyzed for Target Analyte List/Target Compound List (TAL/TCL) VOCs, SVOCs, and metals, which included the RBCA groundwater parameters. In addition to the RBCA-listed VOCs for groundwater outlined in Section 1.2, monitoring well samples were also analyzed for

Table 4.4
Groundwater Samples and Analyses
Area 19

Well Identifier	Sample Identifier	Date Sampled	Analyses
FDS19A	FDS19A01	11/29/99	VOCs, SVOCs, Metals, MTBE, EDB
FDS19B	FDS19B01	11/30/99	VOCs, SVOCs, Metals, MTBE, EDB
FDS19C	FDS19C01	11/30/99	VOCs, SVOCs, Metals, MTBE, EDB
FDS19D	FDS19D01	11/30/99	VOCs, SVOCs, Metals, MTBE, EDB
FDS19E	FDS19E01	11/30/99	VOCs, SVOCs, Metals, MTBE, EDB
FDS19F	FDS19F01	11/29/99	VOCs, SVOCs, Metals, MTBE, EDB
FDS19G	FDS19G01	11/29/99	VOCs, SVOCs, Metals, MTBE, EDB

Notes:
EDB = Ethylene dibromide.
MTBE = Methyl tertiary-butyl ether.
SVOCs = Semivolatile Organic Compounds.
VOCs = Volatile Organic Compounds.
Metals = Arsenic, barium, cadmium, total chromium, lead, mercury, selenium, silver.

methyl tertiary-butyl ether (MTBE) and ethylene dibromide (EDB). Table 4.5 presents a summary of analytical results from the Area 19 monitoring wells. The inorganic background concentrations for this portion of CNC (derived from nearby AOCs 613 and 617 in Zone F) (E/A&H, December 31, 1997) are shown for comparison. Figure 4-4 shows the compounds detected in Area 19 monitoring well samples.

No RBCA-listed VOCs, including MTBE and EDB, or RBCA-listed SVOCs were detected in shallow groundwater samples from Area 19. The RBCA metals arsenic, barium, chromium and lead were detected at concentrations below their respective RBSLs. Groundwater flows to the north-northwest at Area 19, and parameters migrating in shallow groundwater would likely be detected at downgradient monitoring wells FDS19C, FDS19D, FDS19E or FDS19F (Figure 4-4). The area of groundwater contamination defined during DPT sampling appears to be localized on the southwest side of Building 98 and along the pipeline paralleling Hobson Avenue on the northeast side of the building. The area of affected groundwater as previously presented on Figure 4-3 is delineated by wells exhibiting no groundwater contamination and groundwater contaminants therefore are considered delineated at Area 19.

Table 4.5
Summary of Monitoring Well Analytical Results
Area 19

Parameters	Location	Concentration	RBSL (μg/L)	Tap Water RBC (μg/L)	MCL (μg/L)	Shallow Background (μg/L)
Semivolatile Organic Compounds (μg/L)						
Benzoic acid	FDS19A	9	NL	15,000	NL	NL
	FDS19B	19				
	FDS19C	6				
	FDS19D	6				
	FDS19E	6				
	FDS19G	8				
bis(2-Ethylhexyl)phthalate	FDS19B	41	NL	4.8	6	NL
Butylbenzylphthalate	FDS19B	1	NL	730	NL	NL
Di-n-butylphthalate	FDS19A	1	NL	370	NL	NL
	FDS19B	1				
	FDS19C	1				
	FDS19E	1				
	FDS19F	1				
Inorganics (μg/L)						
Arsenic (As)*	FDS19A	13.2	50	0.045	50	17.8
	FDS19B	8.2				
	FDS19C	4.1				
	FDS19D	17				
	FDS19E	3.3				
	FDS19F	20.6				
	FDS19G	5.2				
Barium (Ba)*	FDS19A	293	2,000	260	2,000	31
	FDS19B	217				
	FDS19C	46.7				
	FDS19D	42.7				
	FDS19E	46.2				
	FDS19F	81.8				
	FDS19G	32.6				
Chromium (Cr)*	FDS19A	0.73	100	11	100	3.88
	FDS19B	1.9				
	FDS19C	2.7				
	FDS19D	1				
	FDS19E	1.5				
	FDS19F	3.1				
	FDS19G	6.7				
Lead (Pb)*	FDS19C	4.9	15	15	15	4.6
	FDS19F	3.2				

Notes:
NL = Not listed.
μg/L = Micrograms per liter.
* = RBCA Regulated Parameter.
MCL = Maximum Contaminant Level.
RBSLs from the *South Carolina Risk-Based Corrective Action for Petroleum Releases* (SCDHEC, January 5, 1998) were used as reference concentrations.

Figure 4-4
Summary of Monitoring Well Sample Results
Area 19

N

FDSGW19E

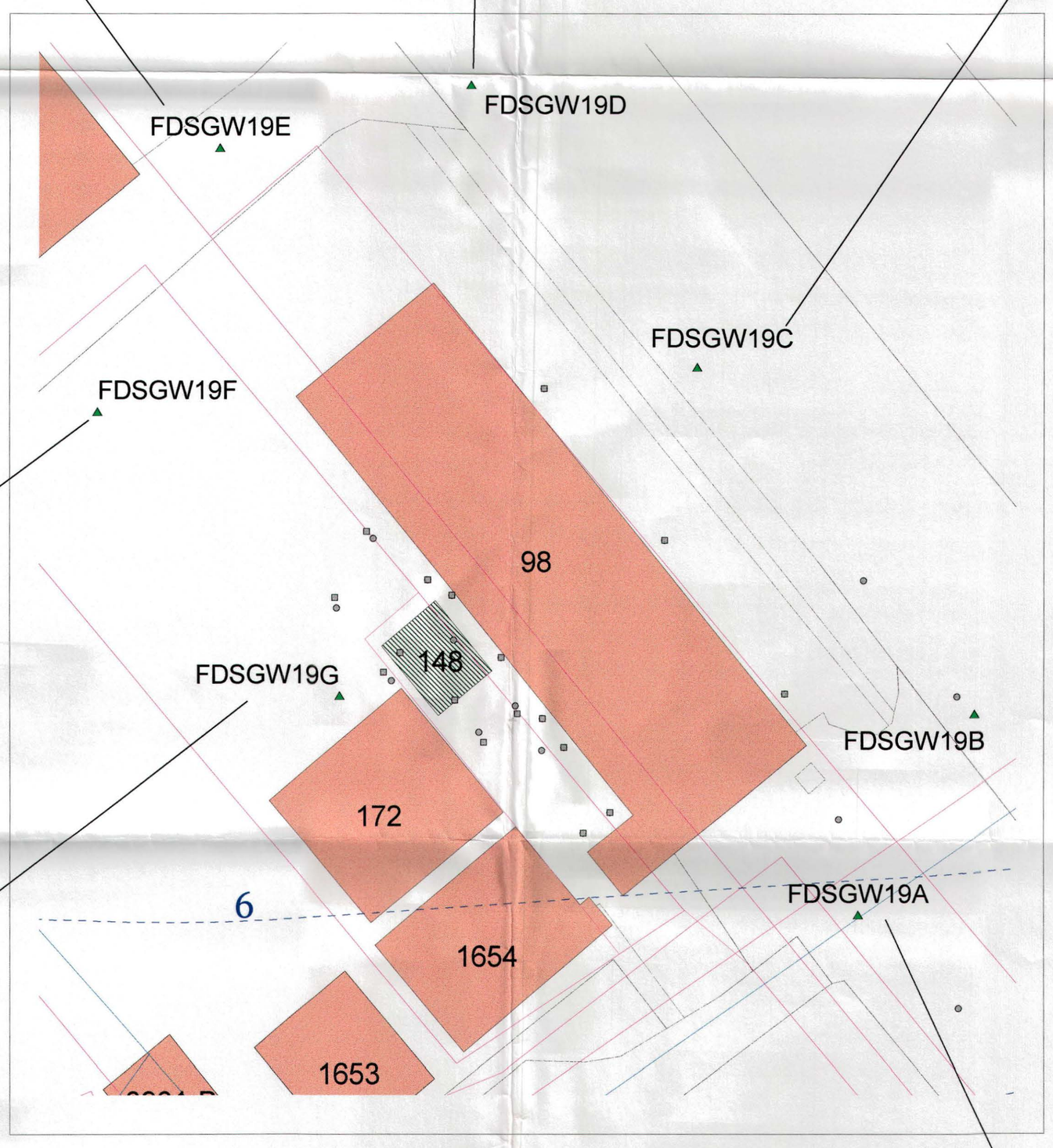
Parameter	Result	Units
Benzoic acid	6	UG/L
Di-n-butylphthalate	1	UG/L
Arsenic (As)	3.3	UG/L
Barium (Ba)	46.2	UG/L
Chromium (Cr)	1.5	UG/L

FDSGW19D

Parameter	Result	Units
Benzoic acid	6	UG/L
Arsenic (As)	17	UG/L
Barium (Ba)	42.7	UG/L
Chromium (Cr)	1	UG/L

FDSGW19C

Parameter	Result	Units
Benzoic acid	6	UG/L
Di-n-butylphthalate	1	UG/L
Arsenic (As)	4.1	UG/L
Barium (Ba)	46.7	UG/L
Chromium (Cr)	2.7	UG/L
Lead (Pb)	4.9	UG/L



FDSGW19F

Parameter	Result	Units
Di-n-butylphthalate	1	UG/L
Arsenic (As)	20.6	UG/L
Barium (Ba)	81.8	UG/L
Chromium (Cr)	3.1	UG/L
Lead (Pb)	3.2	UG/L

FDSGW19B

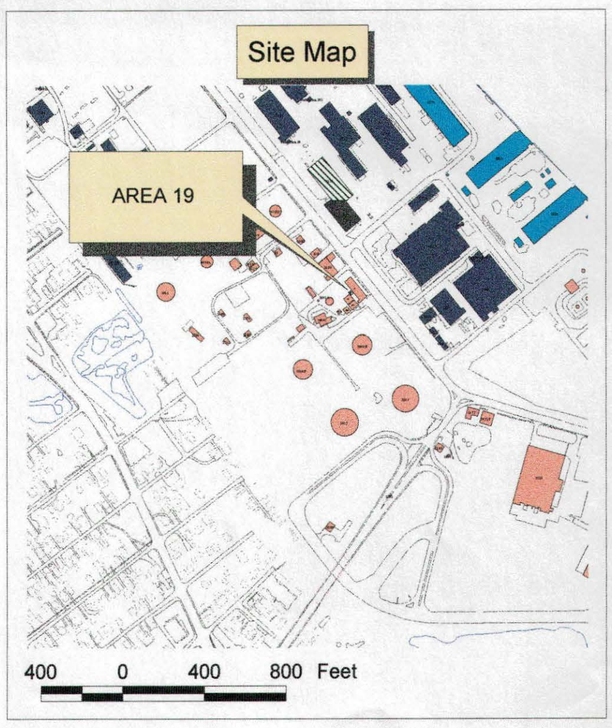
Parameter	Result	Units
Benzoic acid	19	UG/L
bis(2-Ethylhexyl)phthalate	41	UG/L
Butylbenzylphthalate	1	UG/L
Di-n-butylphthalate	1	UG/L
Arsenic (As)	8.2	UG/L
Barium (Ba)	217	UG/L
Chromium (Cr)	1.9	UG/L

FDSGW19G

Parameter	Result	Units
Benzoic acid	8	UG/L
Arsenic (As)	5.2	UG/L
Barium (Ba)	32.6	UG/L
Chromium (Cr)	6.7	UG/L

FDSGW19A

Parameter	Result	Units
Benzoic acid	9	UG/L
Di-n-butylphthalate	1	UG/L
Arsenic (As)	13.2	UG/L
Barium (Ba)	293	UG/L
Chromium (Cr)	0.725	UG/L



50 0 50 100 Feet

Figure 4-4
Summary of Monitoring Well Sample Results
Area 19

Legend

RBCA-listed Groundwater Parameters:

Parameter*	RBSL**	Units
Arsenic (As)	50	UG/L
Barium (Ba)	2000	UG/L
Chromium (Cr)	100	UG/L
Lead (Pb)	15	UG/L

* Only detected parameters are presented
** RBSL for groundwater

Fuel Line
Sludge Line
Zone E
Zone F
Zone G
Demolished
New

8' -- Groundwater Elevation, contour interval 1 ft.
Water Level Date -- 30 Sept 99

RBCA-- Risk-Based Corrective Action.
RBSL -- Risk-Based Screening Level.
UG/L -- Micrograms per liter

▲ -- Detections with no RBSL exceedances
▪ -- DPT Groundwater Sampling Point
● -- DPT Soil Sampling Point
▲ -- Shallow Groundwater Monitoring Well

RED TEXT -- RBCA-listed Parameter
BLACK TEXT -- Non-RBCA-listed Parameter

4.1.4 Non-RBCA Concerns at Area 19

No detections of non-RBCA-listed soil parameters exceeded an appropriate SSL. Non-RBCA-listed organic detections above appropriate tap-water RBCs occurred at Area 19 as listed in Table 4.3. These included acenaphthene, benzo(a)pyrene, dibenzofuran, fluorene, phenanthrene, and bis(2-ethylhexyl)phthalate.

4.2 Area 20

Area 20 encompasses the intersection of Hobson Avenue and Viaduct Road, under which various CNC FDS petroleum supply pipelines run from the Chicora Tank Farm toward the piers along the Cooper River waterfront (Figure 4-5). The RFA includes Area 20 as part of AOC 626, the former Naval Supply Center Fuel Farm, which includes several large and small aboveground storage tanks, various pumping and piping systems, and waste oil and wastewater processing plants. The FDS CAR (EnSafe, September 10, 1998) identified Area 20 as requiring additional assessment due to petroleum contamination discovered in soil and groundwater during IM activities at AOC 626. Numerous petroleum-product spills have occurred at Area 20 over time. In 1974, former petroleum storage tanks 3900G and 3900H (Tank 3900G is adjacent Area 20 to the west) were switched from storing Navy Special Fuel Oil to the less viscous Navy Distillate. The tanks leaked, and were taken out of service in 1975. These tanks were demolished in late 1991, and the current steel tanks (3916 and 3917) were constructed in early 1992. In 1983, a broken weld on a pipeline reducer at the east side of Hobson Avenue and Viaduct Road released approximately 7,000 gallons of fuel oil. In 1990, an underground pipeline break at Hobson Avenue and Viaduct Road spilled approximately 4,000 gallons of fuel oil. In September of 1994, an unspecified amount of diesel fuel was released from an underground pipeline leak at the southwest corner of Hobson Avenue and Viaduct Road. Due to these releases, several investigations have been performed in this area, including the ESE and KEMRON investigations, the S&ME TPH Survey, and the AOC 626 IM. Sections 2.1, 2.2, 2.3 and 2.5, respectively, detail these investigations.

4.2.1 Field Investigation Approach

Table 4.6 depicts the Area 20 soil and groundwater DPT samples collected and analyses performed. The focus of the investigation was the pipe that runs northwest and southwest of the corner of Hobson Avenue and Viaduct Road, near where the ESE, KEMRON and S&ME investigations took place, along with the AOC 626 IM. Initial DPT soil and groundwater sampling focused on areas of contamination identified by these previous site assessments, and additional DPT samples were collected to delineate areas of petroleum contamination found by the initial sampling. Once the impact was characterized by groundwater DPT sampling, six permanent shallow monitoring wells were installed to confirm the DPT results and facilitate future groundwater monitoring (see Table 3.1). Figure 4-5 presents site features, soil and groundwater DPT sample locations, and the locations of site monitoring wells.

Initially, DPT groundwater samples were analyzed for RBCA-listed VOCs, SVOCs and metals. However, the turbidity of the groundwater samples was higher than acceptable and could not be reasonably controlled. Sample turbidity made it impossible to conduct accurate metals analyses, and subsequent DPT groundwater samples at Area 20 therefore were not analyzed for metals. The few metals results obtained are not considered representative of site groundwater and are not discussed in this report. Subsequent DPT sampling locations were selected to delineate the horizontal extent of contamination around RBSL exceedances. Once the groundwater was characterized by DPT sampling, six permanent shallow monitoring wells were installed to confirm the DPT results and facilitate future groundwater monitoring (see Table 3.1). Monitoring well samples were analyzed for RBCA-listed VOCs, SVOCs, and metals.

4.2.2 Soil Sample Results

Thirty-five DPT soil borings were advanced at Area 20 to collect subsurface samples between 3 and 19 feet bgs. Subsurface soil sample results from these borings were compared to the RBCA groundwater protection RBSLs. No free product was observed during sampling. No surface soil samples were collected because the primary release mechanism (underground piping) was below grade. Table 4.7 summarizes the results of DPT soil sampling. Figure 4-6 shows the compounds detected in DPT soil samples for this area, including exceedances of RBCA-listed parameters.

Table 4.6
DPT Soil and Groundwater Samples and Analyses
Area 20

Boring Location	Sample Identifier	Medium	Date Collected	Analyses
P001	F20SP00111	Soil	1/22/99	VOCs, SVOCs
	F20GP00101	Groundwater	1/29/99	VOCs, SVOCs, Metals
P002	F20SP00206	Soil	1/22/99	VOCs, SVOCs
	F20GP00201	Groundwater	1/29/99	VOCs, SVOCs, Metals
P003	F20SP00308	Soil	1/22/99	VOCs, SVOCs
	F20GP00301	Groundwater	1/29/99	VOCs, SVOCs, Metals
P004	F20SP00403	Soil	1/29/99	VOCs, SVOCs
	F20GP00401	Groundwater	1/29/99	VOCs, SVOCs, Metals
P005	F20SP00511	Soil	1/26/99	VOCs, SVOCs
	F20GP00501	Groundwater	1/29/99	VOCs, SVOCs, Metals
P006	F20SP00606	Soil	1/27/99	VOCs, SVOCs
	F20GP00601	Groundwater	1/29/99	VOCs, SVOCs, Metals
P007	F20SP00719	Soil	1/26/99	VOCs, SVOCs
P008	F20GP00801	Groundwater	1/29/99	VOCs, SVOCs, Metals
P009	F20SP00921	Soil	1/27/99	VOCs, SVOCs
P010	F20SP01002	Soil	1/27/99	VOCs, SVOCs
P012	F20SP01210	Soil	1/27/99	VOCs, SVOCs
P013	F20SP01309	Soil	1/27/99	VOCs, SVOCs
P014	F20SP01404	Soil	1/28/99	VOCs, SVOCs
P015	F20SP01509	Soil	1/28/99	VOCs, SVOCs
P016	F20SP01609	Soil	1/28/99	VOCs, SVOCs
P017	F20SP01709	Soil	1/27/99	VOCs, SVOCs
P018	F20GP01801	Groundwater	5/07/99	VOCs, SVOCs
P019	F20SP01906	Soil	5/07/99	VOCs, SVOCs
	F20GP01901	Groundwater	5/07/99	"
P020	F20SP02006	Soil	5/07/99	VOCs, SVOCs
	F20GP02001	Groundwater	5/07/99	"
P021	F20SP02106	Soil	5/07/99	VOCs, SVOCs
P022	F20SP02204	Soil	5/07/99	VOCs, SVOCs
	F20GP02201	Groundwater	5/10/99	"
P023	F20SP02307	Soil	5/07/99	VOCs, SVOCs
P024	F20SP02407	Soil	5/07/99	VOCs, SVOCs
	F20GP02401	Groundwater	5/10/99	"

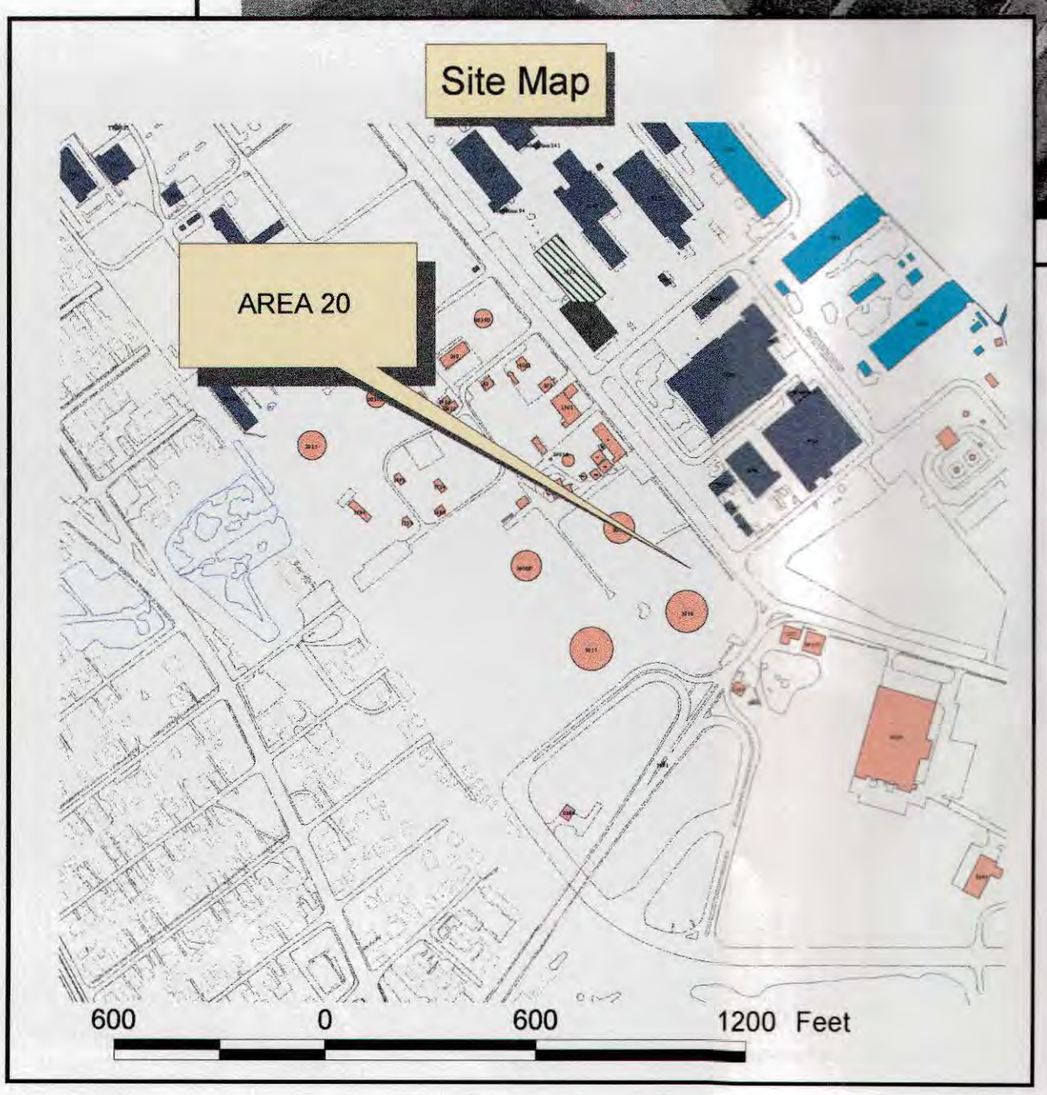
Table 4.6
DPT Soil and Groundwater Samples and Analyses
Area 20

Boring Location	Sample Identifier	Medium	Date Collected	Analyses
P025	F20SP02505	Soil	5/07/99	VOCs, SVOCs
	F20GP02501	Groundwater	5/10/99	"
P026	F20SP02608	Soil	5/07/99	VOCs, SVOCs
	F20GP02601	Groundwater	5/10/99	"
P027	F20SP02708	Soil	5/07/99	VOCs, SVOCs
	F20GP02701	Groundwater	5/11/99	"
P028	F20GP02801	Groundwater	5/11/99	VOCs
P029	F20SP02907	Soil	5/07/99	VOCs, SVOCs
	F20GP02901	Groundwater	5/11/99	"
P030	F20SP03005	Soil	5/07/99	VOCs, SVOCs
	F20GP03001	Groundwater	5/11/99	"
P031	F20GP03101	Groundwater	6/24/99	VOCs, SVOCs
P032	F20GP03201	Groundwater	6/24/99	VOCs, SVOCs
P033	F20GP03301	Groundwater	6/24/99	VOCs
P034	F20SP03401	Soil	10/02/00	VOCs, SVOCs
P035	F20SP03501	Soil	10/02/00	VOCs, SVOCs
	F20CP03501*	"	"	"
P036	F20SP03603	Soil	9/29/00	VOCs, SVOCs
	F20GP03601	Groundwater	10/03/00	
P037	F20SP03703	Soil	9/29/00	VOCs, SVOCs
	F20GP03701	Groundwater	10/03/00	
P038	F20SP03803	Soil	10/03/00	VOCs, SVOCs
P039	F20SP03903	Soil	10/03/00	VOCs, SVOCs
P040	F20SP04003	Soil	9/29/00	VOCs, SVOCs
	F20GP04001	Groundwater	10/02/00	
P041	F20SP04103	Soil	9/29/00	VOCs, SVOCs
	F20GP04101	Groundwater	10/02/00	"
	F20HP04101*	"	"	"
P042	F20SP04203	Soil	9/29/00	VOCs, SVOCs
P043	F20GP04301	Groundwater	10/03/00	VOCs, SVOCs
P044	F20GP04401	Groundwater	10/02/00	VOCs, SVOCs
P045	F20GP04501	Groundwater	10/03/00	VOCs, SVOCs

Notes:
Sample P011 was not collected.
SVOCs = Semivolatile Organic Compounds.
VOCs = Volatile Organic Compounds.
* = Duplicate Sample.

Figure 4-5
Soil and Goundwater Sample Locations
Area 20

N



900 0 900 1800 Feet

Figure 4-5
Soil and Goundwater Sample Locations
Area 20

Legend

- -- DPT Soil Sampling Point
- -- DPT Groundwater Sampling Point
- -- DPT Soil/Groundwater Sampling Point
- -- Shallow Groundwater Monitoring Well

Fuel Line
Sludge Line

Zone E
Zone F
Zone G

Demolished
New

Aerial Photo Date -- 15 March 98

Six VOCs — benzene, ethylbenzene, toluene, xylene (total), acetone, and methylene chloride — were detected in subsurface soil samples collected at Area 20. Benzene exceeded the RBCA groundwater protection RBSL (5 μg/kg) at DPT boring location F20SP014 (38 μg/kg). The other benzene detection at F20SP023 (3 μg/kg) was below the RBSL. All detections of ethylbenzene, toluene, and xylene (total) were below their respective RBSLs. Acetone and methylene chloride are not RBCA-listed parameters regulated under SCDHEC's Petroleum Program; however, these detections were below their respective SSLs. Non-RBCA concerns at Area 20 are discussed in Section 4.2.4. Naphthalene and/or total naphthalenes exceeded the groundwater protection RBSL (210 μg/kg for each constituent) at DPT boring locations F20SP001, F20SP014, F20SP017, F20SP019, F20SP023 and F20SP024. F20SP019 is located in the roadbed where Viaduct Road intersects Hobson Avenue, adjacent to the former excavation. F20SP001 and F20SP017 are located at either end of the footprint of the pipeline excavation. F20SP014, F20SP023 and F20SP024 are located northwest of the removal area along the FDS pipeline corridor near the diesel fuel line that crosses Hobson Avenue. With the exception of benzene, naphthalene and total naphthalenes, no other organic detections in soil exceeded their respective groundwater protection RBSLs.

DPT soil exceedances above appropriate RBSLs at Area 20 are adjacent to the footprint of the pipeline IM along Viaduct Road, and northwest of the removal area along Hobson Avenue. The northwestern area of RBSL exceedances is likely related to the fuel pipelines in this portion of Area 20. The areas of contaminated soil are delineated by locations where parameters either were not detected or were detected below applicable RBSLs.

Table 4.7
Summary of DPT Soil Analytical Results
Area 20

Parameters	Location	Subsurface Conc.	Groundwater Protection RBSL	SSL
Volatile Organic Compounds (μg/kg)				
Acetone	F20SP035	82.5	NL	5,700
	F20SP037	120		
	F20SP038	30		
	F20SP039	48		
	F20SP040	180		
	F20SP042	110		
Benzene*	F20SP014	**38**	5	30
	F20SP023	3		
Ethylbenzene*	F20SP014	11	1,260	21,000
	F20SP024	1		
	F20SP041	1		
Methylene chloride	F20SP038	3	NL	12
Toluene*	F20SP014	1	1,622	12,000
	F20SP021	2		
	F20SP030	2		
Xylene (Total)*	F20SP001	1	42,471	148,000
	F20SP014	13		
	F20SP023	5		
Semivolatile Organic Compounds (μg/kg)				
Total Naphthalenes*	F20SP001	**390**	210	NL
	F20SP003	76		
	F20SP012	171		
	F20SP014	**41,012**		
	F20SP015	120		
	F20SP017	**604**		
	F20SP019	**624**		
	F20SP020	56		
	F20SP023	**660**		
	F20SP024	**600**		
	F20SP029	95		
	F20SP030	89		
	F20SP038	88		
Naphthalene*	F20SP001	**390**	210	12,000
	F20SP003	76		
	F20SP014	**4,000**		
	F20SP015	79		
	F20SP017	**260**		
	F20SP020	30		
	F20SP023	**660**		
	F20SP024	**600**		
	F20SP029	29		
	F20SP030	43		

Table 4.7
Summary of DPT Soil Analytical Results
Area 20

Parameters	Location	Subsurface Conc.	Groundwater Protection RBSL	SSL
2-Methylnaphthalene*	F20SP012	171	NL	73,000
	F20SP014	37,012		
	F20SP015	121		
	F20SP017	344		
	F20SP019	624		
	F20SP020	26		
	F20SP029	66		
	F20SP030	46		
	F20SP038	88		
Benzo(a)anthracene*	F20SP001	1,900	73,084	3,900
	F20SP003	580		
	F20SP004	60		
	F20SP005	120		
	F20SP006	100		
	F20SP012	190		
	F20SP014	220		
	F20SP015	660		
	F20SP016	1,200		
	F20SP017	3,900		
	F20SP019	220		
	F20SP020	210		
	F20SP021	200		
	F20SP022	160		
	F20SP023	170		
	F20SP024	40		
	F20SP025	120		
	F20SP027	35		
	F20SP029	95		
	F20SP030	200		
	F20SP035	36		
	F20SP036	38		
	F20SP037	50		
	F20SP038	280		
	F20SP039	64		
	F20SP041	82		

Table 4.7
Summary of DPT Soil Analytical Results
Area 20

Parameters	Location	Subsurface Conc.	Groundwater Protection RBSL	SSL
Benzo(b)fluoranthene*	F20SP001	730	29,097	12,000
	F20SP003	710		
	F20SP004	60		
	F20SP005	95		
	F20SP006	95		
	F20SP012	48		
	F20SP014	220		
	F20SP015	790		
	F20SP016	1,200		
	F20SP017	3,000		
	F20SP020	100		
	F20SP021	100		
	F20SP022	140		
	F20SP023	79		
	F20SP024	46		
	F20SP025	110		
	F20SP027	41		
	F20SP029	96		
	F20SP030	140		
	F20SP038	210		
Benzo(k)fluoranthene*	F20SP001	590	231,109	120,000
	F20SP003	560		
	F20SP004	43		
	F20SP005	73		
	F20SP006	81		
	F20SP012	57		
	F20SP014	140		
	F20SP015	720		
	F20SP016	920		
	F20SP017	2,800		
	F20SP020	110		
	F20SP021	110		
	F20SP022	140		
	F20SP023	53		
	F20SP024	30		
	F20SP025	120		
	F20SP027	29		
	F20SP029	85		
	F20SP030	170		
	F20SP038	220		

Table 4.7
Summary of DPT Soil Analytical Results
Area 20

Parameters	Location	Subsurface Conc.	Groundwater Protection RBSL	SSL
Chrysene*	F20SP001	3,200	12,998	1,390,000
	F20SP003	1,000		
	F20SP004	64		
	F20SP005	220		
	F20SP006	180		
	F20SP012	250		
	F20SP013	52		
	F20SP014	410		
	F20SP015	740		
	F20SP016	1,200		
	F20SP017	3,700		
	F20SP019	440		
	F20SP020	220		
	F20SP021	260		
	F20SP022	190		
	F20SP023	310		
	F20SP024	55		
	F20SP025	150		
	F20SP027	45		
	F20SP029	180		
	F20SP030	280		
	F20SP035	44		
	F20SP036	46		
	F20SP037	68		
	F20SP038	350		
	F20SP039	81		
	F20SP040	27		
	F20SP041	89		
Acenaphthene	F20SP038	1,400	NL	1,300,000
	F20SP041	48		
Anthracene	F20SP038	550	NL	2.6E+07
	F20SP041	54		
Benzo(a)pyrene	F20SP035	31	NL	17,000
	F20SP036	44		
	F20SP037	65		
	F20SP038	190		
	F20SP039	74		
	F20SP040	33		
	F20SP041	87		
Benzoic acid	F20SP039	400	NL	230,000
Dibenzofuran	F20SP038	630	NL	27,000
Fluoranthene	F20SP038	1,200	NL	1.3E+07
Fluorene	F20SP038	1,100	NL	1,700,000

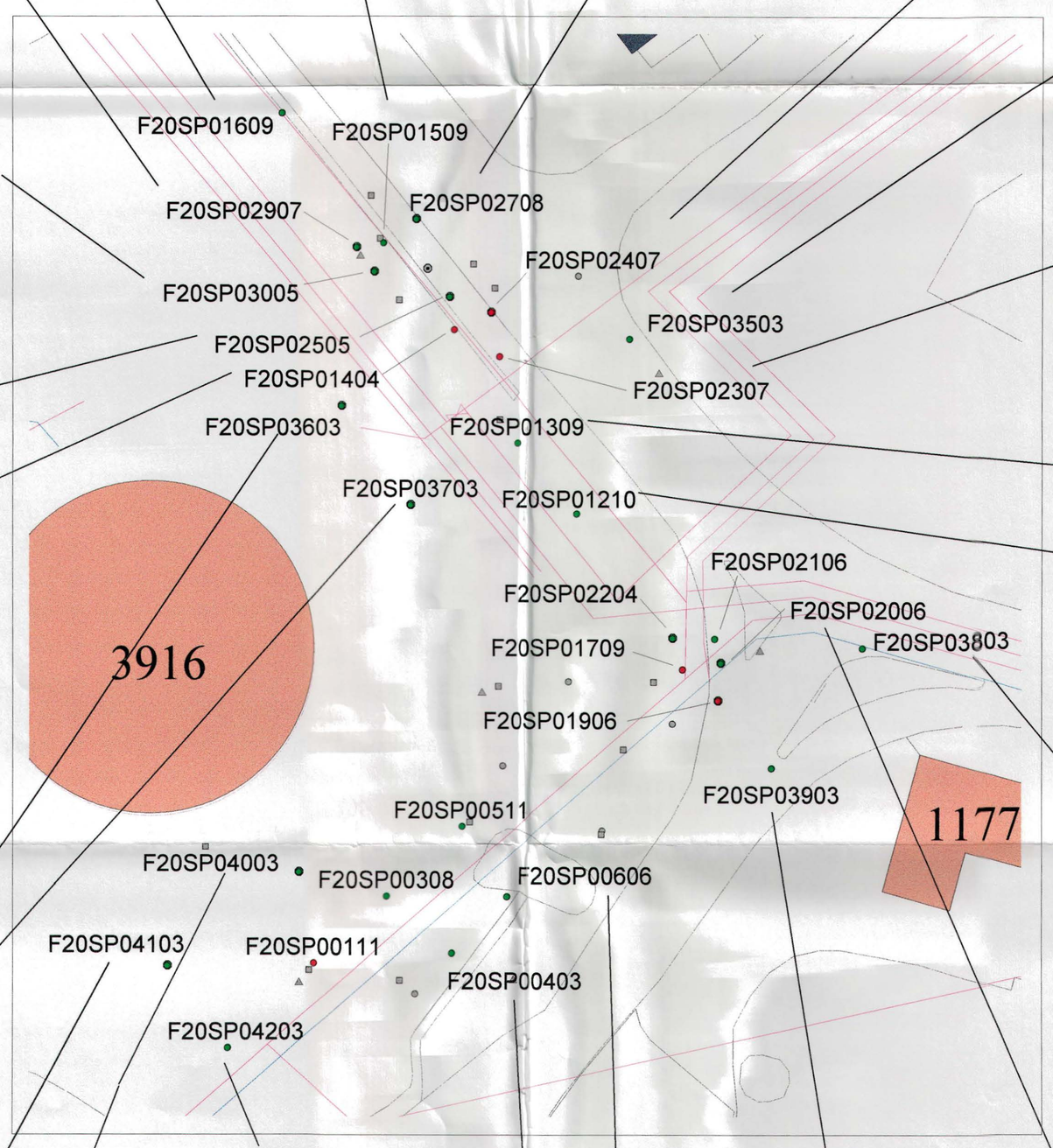
Table 4.7
Summary of DPT Soil Analytical Results
Area 20

Parameters	Location	Subsurface Conc.	Groundwater Protection RBSL	SSL
Phenanthrene	F20SP035	38	NL	2,700,000
	F20SP038	2,300		
	F20SP041	120		
Pyrene	F20SP038	1,800	NL	9,400,000
	F20SP041	230		

Notes:
NL = Not listed.
SSL = Soil-to-groundwater Screening Level. Dderived from nearby AOCs 619 and 620 in Zone F (E/A&H, December 31, 1997).
μg/kg = Micrograms per kilogram. Derived from nearby AOCs 613 and 617 in Zone F (E/A&H, December 31, 1997).
* = RBCA-Regulated Parameter.
RBSLs for groundwater protection from the *South Carolina Risk-Based Corrective Action for Petroleum Releases* (SCDHEC, January 5, 1998) were used as reference concentrations.
Bolded concentrations exceed RBSL.

Figure 4-6
DPT Soil Sample Results
Area 20

N



F20SP01609

Parameter	Result	Units
Benzo(a)anthracene	1200	UG/KG
Benzo(b)fluoranthene	1200	UG/KG
Benzo(k)fluoranthene	920	UG/KG
Chrysene	1200	UG/KG

F20SP01509

Parameter	Result	Units
Total Naphthalenes	120	UG/KG
Naphthalene	79	UG/KG
2-Methylnaphthalene	121	UG/KG
Benzo(a)anthracene	660	UG/KG
Benzo(b)fluoranthene	790	UG/KG
Benzo(k)fluoranthene	720	UG/KG
Chrysene	740	UG/KG

F20SP02708

Parameter	Result	Units
Benzo(a)anthracene	35	UG/KG
Benzo(b)fluoranthene	41	UG/KG
Benzo(k)fluoranthene	29	UG/KG
Chrysene	45	UG/KG

F20SP02407

Parameter	Result	Units
Ethylbenzene	1	UG/KG
Total Naphthalenes	**600**	**UG/KG**
Naphthalene	**600**	**UG/KG**
Benzo(a)anthracene	40	UG/KG
Benzo(b)fluoranthene	46	UG/KG
Benzo(k)fluoranthene	30	UG/KG
Chrysene	55	UG/KG

F20SP02907

Parameter	Result	Units
Total Naphthalenes	95	UG/KG
Naphthalene	29	UG/KG
2-Methylnaphthalene	66	UG/KG
Benzo(a)anthracene	95	UG/KG
Benzo(b)fluoranthene	96	UG/KG
Benzo(k)fluoranthene	85	UG/KG
Chrysene	180	UG/KG

F20SP03503

Parameter	Result	Units
Acetone	82.5	UG/KG
Benzo(a)anthracene	36	UG/KG
Benzo(a)pyrene	31	UG/KG
Chrysene	44	UG/KG
Phenanthrene	38	UG/KG

F20SP03005

Parameter	Result	Units
Toluene	2	UG/KG
Total Naphthalenes	89	UG/KG
Naphthalene	43	UG/KG
2-Methylnaphthalene	46	UG/KG
Benzo(a)anthracene	200	UG/KG
Benzo(b)fluoranthene	140	UG/KG
Benzo(k)fluoranthene	170	UG/KG
Chrysene	280	UG/KG

F20SP02307

Parameter	Result	Units
Benzene	3	UG/KG
Xylene (Total)	5	UG/KG
Total Naphthalenes	**660**	**UG/KG**
Naphthalene	**660**	**UG/KG**
Benzo(a)anthracene	170	UG/KG
Benzo(b)fluoranthene	79	UG/KG
Benzo(k)fluoranthene	53	UG/KG
Chrysene	310	UG/KG

F20SP02505

Parameter	Result	Units
Benzo(a)anthracene	120	UG/KG
Benzo(b)fluoranthene	110	UG/KG
Benzo(k)fluoranthene	120	UG/KG
Chrysene	150	UG/KG

F20SP01309

Parameter	Result	Units
Chrysene	52	UG/KG

F20SP01404

Parameter	Result	Units
Ethylbenzene	11	UG/KG
Benzene	**38**	**UG/KG**
Toluene	1	UG/KG
Xylene (Total)	13	UG/KG
Total Naphthalenes	**41012**	**UG/KG**
Naphthalene	**4000**	**UG/KG**
2-Methylnaphthalene	37012	UG/KG
Benzo(a)anthracene	220	UG/KG
Benzo(b)fluoranthene	220	UG/KG
Benzo(k)fluoranthene	140	UG/KG
Chrysene	410	UG/KG

F20SP01210

Parameter	Result	Units
Total Naphthalenes	171	UG/KG
2-Methylnaphthalene	171	UG/KG
Benzo(a)anthracene	190	UG/KG
Benzo(b)fluoranthene	48	UG/KG
Benzo(k)fluoranthene	57	UG/KG
Chrysene	250	UG/KG

F20SP03603

Parameter	Result	Units
Benzo(a)anthracene	38	UG/KG
Benzo(a)pyrene	44	UG/KG
Chrysene	46	UG/KG

F20SP03803

Parameter	Result	Units
Acetone	30	UG/KG
Methylene chloride	3	UG/KG
Total Naphthalenes	88	UG/KG
2-Methylnaphthalene	88	UG/KG
Benzo(a)anthracene	280	UG/KG
Benzo(b)fluoranthene	210	UG/KG
Benzo(k)fluoranthene	220	UG/KG
Chrysene	350	UG/KG
Acenaphthene	1400	UG/KG
Anthracene	550	UG/KG
Benzo(a)pyrene	190	UG/KG
Dibenzofuran	630	UG/KG
Fluoranthene	1200	UG/KG
Fluorene	1100	UG/KG
Phenanthrene	2300	UG/KG
Pyrene	1800	UG/KG

F20SP03703

Parameter	Result	Units
Acetone	120	UG/KG
Benzo(a)anthracene	50	UG/KG
Benzo(a)pyrene	65	UG/KG
Chrysene	68	UG/KG

F20SP04103

Parameter	Result	Units
Ethylbenzene	1	UG/KG
Benzo(a)anthracene	82	UG/KG
Chrysene	89	UG/KG
Acenaphthene	48	UG/KG
Anthracene	54	UG/KG
Benzo(a)pyrene	87	UG/KG
Phenanthrene	120	UG/KG
Pyrene	230	UG/KG

F20SP04203

Parameter	Result	Units
Acetone	110	UG/KG

F20SP03903

Parameter	Result	Units
Acetone	48	UG/KG
Benzo(a)anthracene	64	UG/KG
Benzo(a)pyrene	74	UG/KG
Chrysene	81	UG/KG
Benzoic acid	400	UG/KG

F20SP02006

Parameter	Result	Units
Total Naphthalenes	56	UG/KG
Naphthalene	30	UG/KG
2-Methylnaphthalene	26	UG/KG
Benzo(a)anthracene	210	UG/KG
Benzo(b)fluoranthene	100	UG/KG
Benzo(k)fluoranthene	110	UG/KG
Chrysene	220	UG/KG

F20SP00403

Parameter	Result	Units
Benzo(a)anthracene	60	UG/KG
Benzo(b)fluoranthene	60	UG/KG
Benzo(k)fluoranthene	43	UG/KG
Chrysene	64	UG/KG

F20SP04003

Parameter	Result	Units
Acetone	180	UG/KG
Benzo(a)pyrene	33	UG/KG
Chrysene	27	UG/KG

F20SP00606

Parameter	Result	Units
Benzo(a)anthracene	100	UG/KG
Benzo(b)fluoranthene	95	UG/KG
Benzo(k)fluoranthene	81	UG/KG
Chrysene	180	UG/KG

F20SP00111

Parameter	Result	Units
Xylene (Total)	1	UG/KG
Total Naphthalenes	**390**	**UG/KG**
Naphthalene	**390**	**UG/KG**
Benzo(a)anthracene	1900	UG/KG
Benzo(b)fluoranthene	730	UG/KG
Benzo(k)fluoranthene	590	UG/KG
Chrysene	3200	UG/KG

F20SP00308

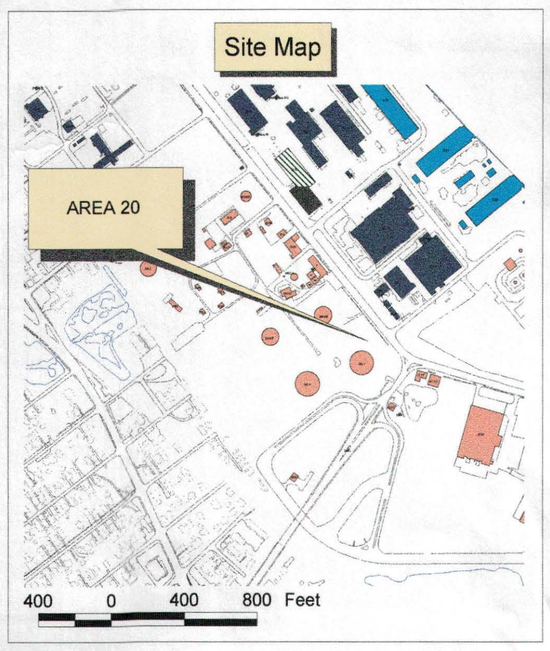
Parameter	Result	Units
Total Naphthalenes	76	UG/KG
Naphthalene	76	UG/KG
Benzo(a)anthracene	580	UG/KG
Benzo(b)fluoranthene	710	UG/KG
Benzo(k)fluoranthene	560	UG/KG
Chrysene	1000	UG/KG

F20SP01709

Parameter	Result	Units
Total Naphthalenes	**604**	**UG/KG**
Naphthalene	**260**	**UG/KG**
2-Methylnaphthalene	344	UG/KG
Benzo(a)anthracene	3900	UG/KG
Benzo(b)fluoranthene	3000	UG/KG
Benzo(k)fluoranthene	2800	UG/KG
Chrysene	3700	UG/KG

F20SP00511

Parameter	Result	Units
Benzo(a)anthracene	120	UG/KG
Benzo(b)fluoranthene	95	UG/KG
Benzo(k)fluoranthene	73	UG/KG
Chrysene	220	UG/KG



F20SP01906

Parameter	Result	Units
Total Naphthalenes	**624**	**UG/KG**
2-Methylnaphthalene	624	UG/KG
Benzo(a)anthracene	220	UG/KG
Chrysene	440	UG/KG

F20SP02106

Parameter	Result	Units
Toluene	2	UG/KG
Benzo(a)anthracene	200	UG/KG
Benzo(b)fluoranthene	100	UG/KG
Benzo(k)fluoranthene	110	UG/KG
Chrysene	260	UG/KG

F20SP02204

Parameter	Result	Units
Benzo(a)anthracene	160	UG/KG
Benzo(b)fluoranthene	140	UG/KG
Benzo(k)fluoranthene	140	UG/KG
Chrysene	190	UG/KG

100 0 100 200 Feet

Figure 4-6
DPT Soil Sample Results
Area 20

Legend

RBCA-listed Soil Parameters:

Parameter*	RBSL**	Units
Benzene	5	UG/KG
Ethylbenzene	1,260	UG/KG
Toluene	1,622	UG/KG
Xylene (Total)	42,471	UG/KG
Total Naphthalenes	210	UG/KG
Naphthalene	210	UG/KG
Benzo(a)anthracene	73,084	UG/KG
Benzo(b)fluoranthene	29,097	UG/KG
Benzo(k)fluoranthene	23,1109	UG/KG
Chrysene	12,998	

* Only detected parameters are presented
** Subsurface soil RBSL for sandy soil, less than 5-feet to groundwater (soil-to-groundwater leachability)

Fuel Line
Sludge Line
Zone E
Zone F
Zone G
Demolished
New

RBCA -- Risk-Based Corrective Action
RBSL -- Risk-Based Screening Level
UG/KG -- Micrograms per kilogram
-- RBSL exceedances at this location
-- Detections with no RBSL exceedances
-- DPT Soil Sampling Point, no detections
-- DPT Groundwater Sampling Point
-- DPT Soil/GW Sampling Point, no detection
-- Shallow Groundwater Monitoring Well
RED TEXT -- RBCA-listed Parameter
Bold Text-- Results exceed applicable RBSL
BLACK TEXT -- Non-RBCA-listed Parameter

4.2.3 Groundwater Sample Results

DPT

Twenty-eight DPT groundwater samples were collected at Area 20 (Figure 4-5). Table 4.8 summarizes the results of DPT groundwater analysis at Area 20. No free product was observed during sampling. Samples were analyzed for VOCs and SVOCs. As discussed for Area 19 in Section 4.1.3, DPT temporary well points were installed to sample site groundwater at Area 20, and later abandoned. The groundwater analyses revealed no RBSL VOC exceedances. Figure 4-7 shows the compounds detected in DPT groundwater samples for this area, including exceedances of RBCA-listed parameters. Several individual and total PAH exceedances occurred at DPT groundwater sample locations F20GP008, F20GP024, F20GP025, F20GP037, and F20GP043 (see Table 4.8). These samples are located within and adjacent to the portion of Area 20 extending along the west side of Hobson Avenue. 2-Methylnaphthalene at F20GP004 (10.9 μg/L) and total PAHs (53 μg/L), naphthalene (16 μg/L) and 2-methylnaphthalene (32.6 μg/L) at F20GP005 also exceeded the appropriate RBSL. These sample locations are near the intersection of Viaduct Road and Hobson Avenue, adjacent to the footprint of the SPORTENVDETCHASN pipeline excavation. 2-Methylnaphthalene (13 μg/L) at F20GP001 and total PAHs and 2-methylnaphthalene (33 μg/L and 39 μg/L, respectively) at F20GP044 also exceeded their RBSLs. F20GP001 is located southwest of the pipeline excavation. F20GP044 is located south of Tank 3916, inside the tank's spill containment berm. Total PAHs (27 μg/L) and naphthalene (19 μg/L) at F20GP037 also exceeded their RBSLs. F20GP037 is on the east side of the containment berm for Tank 3916.

The RBCA groundwater exceedances included total PAHs, 2-methylnaphthalene, naphthalene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene and chrysene. Most DPT groundwater exceedances and the greatest concentrations occurred northwest of the pipeline IM at Area 20, the portion of the site adjacent to Hobson Avenue. These exceedances

Table 4.8
Summary of DPT Groundwater Analytical Results
Area 20

Parameters	Location	Concentration	RBSL (μg/L)	Tap Water RBC (μg/L)	MCL (μg/L)
Volatile Organic Compound (μg/L)					
Acetone	F20GP036	28	NL	61	NL
	F20GP045	8			
Benzene*	F20GP005	2	5	0.36	5
Ethylbenzene*	F20GP005	5	700	130	700
	F20GP008	5			
Toluene*	F20GP005	4	1,000	75	1,000
Xylene (Total)*	F20GP005	21	10,000	1200	10,000
	F20GP008	10			
	F20GP024	4			
Semivolatile Organic Compounds (μg/L)					
Total PAHs*	F20GP001	14	25	NL	NL
	F20GP002	1			
	F20GP003	19			
	F20GP004	17			
	F20GP005	**53**			
	F20GP006	8			
	F20GP008	**1,438**			
	F20GP018	7			
	F20GP019	4			
	F20GP020	6			
	F20GP022	3			
	F20GP024	**144**			
	F20GP025	**44**			
	F20GP031	16			
	F20GP037	**27**			
	F20GP043	**577**			
	F20GP044	**33**			
2-Methylnaphthalene*	F20GP001	**13**	10	12	NL
	F20GP003	9.6			
	F20GP004	**10.9**			
	F20GP005	**32.6**			
	F20GP006	3			
	F20GP008	**507**			
	F20GP018	0.53			
	F20GP019	4			
	F20GP020	6			
	F20GP022	2			
	F20GP024	**127**			
	F20GP037	5			
	F20GP043	**510**			
	F20GP044	**27**			

Table 4.8
Summary of DPT Groundwater Analytical Results
Area 20

Parameters	Location	Concentration	RBSL (μg/L)	Tap Water RBC (μg/L)	MCL (μg/L)
Naphthalene*	F20GP001	1	10	0.65	NL
	F20GP002	1			
	F20GP003	3			
	F20GP004	6			
	F20GP005	**16**			
	F20GP006	5			
	F20GP008	**780**			
	F20GP018	0.60			
	F20GP022	1			
	F20GP024	9			
	F20GP037	**19**			
	F20GP043	**34**			
	F20GP044	6			
Benzo(a)anthracene*	F20GP003	2	10	0.092	NL
	F20GP005	1			
	F20GP008	**55**			
	F20GP018	2			
	F20GP024	2			
	F20GP025	**15**			
	F20GP031	4			
	F20GP037	1			
	F20GP043	**11**			
Benzo(b)fluoranthene*	F20GP003	2	10	0.092	NL
	F20GP005	1			
	F20GP008	**26**			
	F20GP018	1			
	F20GP024	1			
	F20GP025	10			
	F20GP031	4			
	F20GP043	5			
Benzo(k)fluoranthene*	F20GP008	**20**	10	0.92	NL
	F20GP018	0.50			
	F20GP024	0.90			
	F20GP025	6			
	F20GP031	3			
	F20GP043	6			
Chrysene*	F20GP003	2	10	9.2	NL
	F20GP005	2			
	F20GP008	**50**			
	F20GP018	2			
	F20GP024	4			
	F20GP025	**13**			
	F20GP031	5			
	F20GP037	2			
	F20GP043	**11**			
Benzo(a)pyrene	F20GP031	4	NL	0.0092	0.2
	F20GP043	6			

Table 4.8
Summary of DPT Groundwater Analytical Results
Area 20

Parameters	Location	Concentration	RBSL (μg/L)	Tap Water RBC (μg/L)	MCL (μg/L)
Benzo(g,h,i)perylene	F20GP031	3	NL	73	NL
	F20GP043	2			
Benzoic acid	F20GP031	2	NL	15000	NL
	F20GP032	1			
	F20GP036	7			
	F20GP045	7			
Acenaphthene	F20GP037	29	NL	37	NL
Anthracene	F20GP031	2	NL	180	NL
	F20GP037	6			
	F20GP043	21			
Dibenzofuran	F20GP037	11	NL	2.4	NL
Fluoranthene	F20GP031	11	NL	150	NL
	F20GP037	12			
	F20GP043	29			
Fluorene	F20GP031	0.80	NL	24	NL
	F20GP037	18			
	F20GP043	44			
Indeno(1,2,3-cd)pyrene	F20GP031	2	NL	0.092	NL
	F20GP043	2			
Phenanthrene	F20GP031	5	NL	18	NL
	F20GP037	28			
	F20GP043	170			
Phenol	F20GP032	0.60	NL	2200	NL
	F20GP045	25			
Pyrene	F20GP031	10	NL	18	NL
	F20GP037	8			
	F20GP043	24			
Bis(2-ethylhexyl)phthalate	F20GP031	2	NL	4.8	6
di 2 ethyl	F20GP032	2			
Diethylphthalate	F20GP031	0.70	NL	2900	NL
	F20GP032	0.60			
Di-n-butylphthalate	F20GP031	1	NL	370	NL
	F20GP032	0.50			

Notes:
NL = Not listed.
μg/L = Micrograms per liter.
* = RBCA-Regulated Parameter.
MCL = Maximum Contaminant Level.
RBSLs from the *South Carolina Risk-Based Corrective Action for Petroleum Releases* (SCDHEC, January 5, 1998) were used as reference concentrations.
Bolded concentrations exceed RBSL.

Figure 4-7
Summary of DPT Groundwater Sample Results
Area 20

N

F20GP025

Parameter	Result	Units
Total PAHs	**44**	**UG/L**
Benzo(a)anthracene	**15**	**UG/L**
Benzo(b)fluoranthene	10	UG/L
Benzo(k)fluoranthene	6	UG/L
Chrysene	**13**	**UG/L**

F20GP008

Parameter	Result	Units
Ethylbenzene	5	UG/L
Xylene (Total)	10	UG/L
Total PAHs	**1438**	**UG/L**
Naphthalene	**780**	**UG/L**
2-Methylnaphthalene	**507**	**UG/L**
Benzo(a)anthracene	**55**	**UG/L**
Benzo(b)fluoranthene	**26**	**UG/L**
Benzo(k)fluoranthene	**20**	**UG/L**
Chrysene	**50**	**UG/L**

F20GP031

Parameter	Result	Units
Total PAHs	16	UG/L
Anthracene	2	UG/L
Benzo(a)anthracene	4	UG/L
Benzo(a)pyrene	4	UG/L
Benzo(b)fluoranthene	4	UG/L
Benzo(g,h,i)perylene	3	UG/L
Benzo(k)fluoranthene	3	UG/L
Chrysene	5	UG/L
Benzoic acid	2	UG/L
bis(2-Ethylhexyl)phthalate	2	UG/L
Diethylphthalate	0.7	UG/L
Di-n-butylphthalate	1	UG/L
Fluoranthene	11	UG/L
Fluorene	0.8	UG/L
Indeno(1,2,3-cd)pyrene	2	UG/L
Phenanthrene	5	UG/L
Pyrene	10	UG/L

F20GP032

Parameter	Result	Units
Benzoic acid	1	UG/L
bis(2-Ethylhexyl)phthalate	2	UG/L
Diethylphthalate	0.6	UG/L
Di-n-butylphthalate	0.5	UG/L
Phenol	0.6	UG/L

F20GP036

Parameter	Result	Units
Acetone	28	UG/L
Benzoic acid	7	UG/L

F20GP024

Parameter	Result	Units
Xylene (Total)	4	UG/L
Total PAHs	**144**	**UG/L**
Naphthalene	9	UG/L
2-Methylnaphthalene	**127**	**UG/L**
Benzo(a)anthracene	2	UG/L
Benzo(b)fluoranthene	1	UG/L
Benzo(k)fluoranthene	0.9	UG/L
Chrysene	4	UG/L

F20GP037

Parameter	Result	Units
Total PAHs	**27**	**UG/L**
Naphthalene	**19**	**UG/L**
2-Methylnaphthalene	5	UG/L
Benzo(a)anthracene	1	UG/L
Acenaphthene	29	UG/L
Anthracene	6	UG/L
Chrysene	2	UG/L
Dibenzofuran	11	UG/L
Fluoranthene	12	UG/L
Fluorene	18	UG/L
Phenanthrene	28	UG/L
Pyrene	8	UG/L

F20GP043

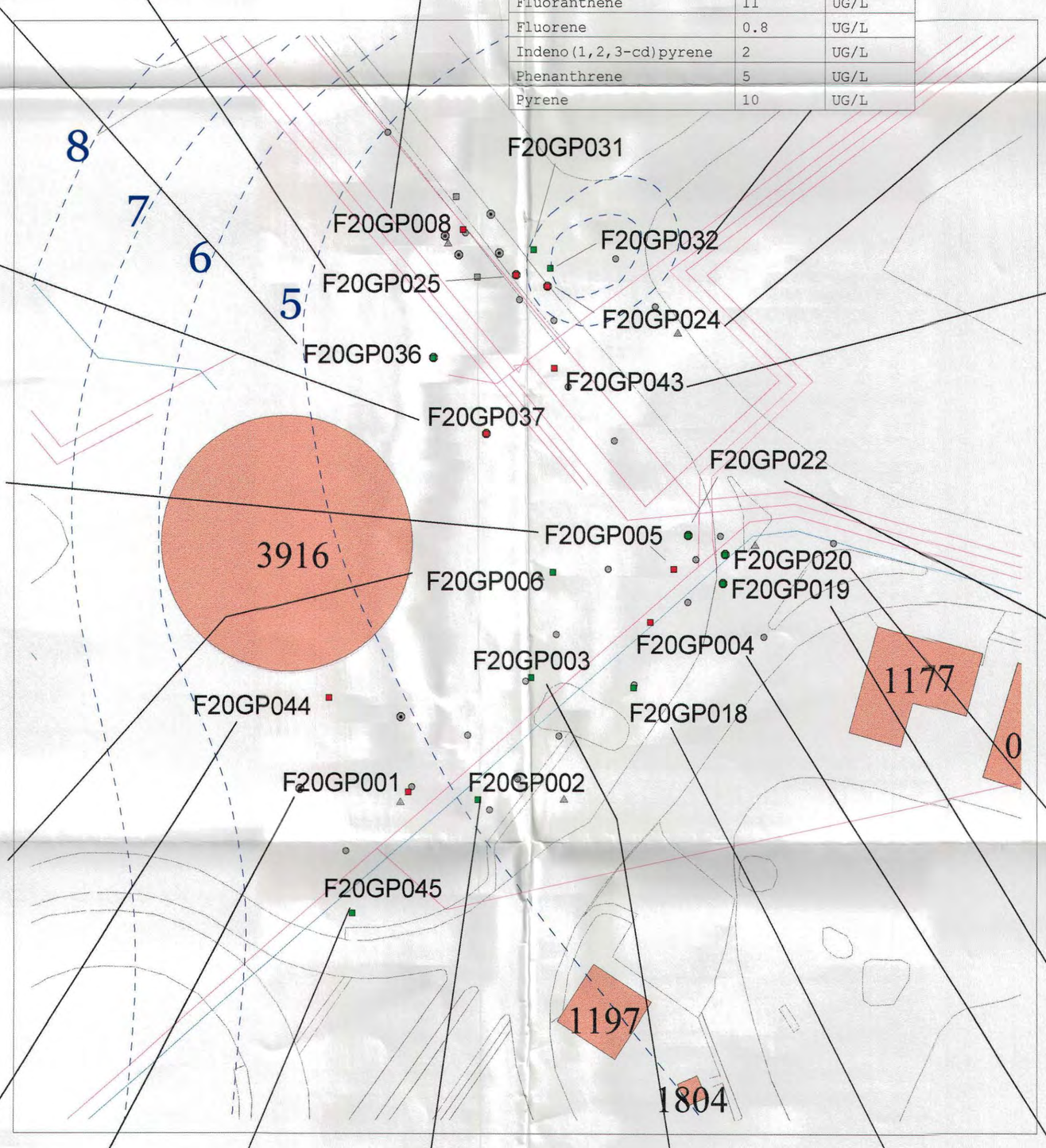
Parameter	Result	Units
Total PAHs	**577**	**UG/L**
Naphthalene	**34**	**UG/L**
2-Methylnaphthalene	**510**	**UG/L**
Benzo(a)anthracene	**11**	**UG/L**
Benzo(b)fluoranthene	5	UG/L
Benzo(k)fluoranthene	6	UG/L
Chrysene	**11**	**UG/L**
Anthracene	21	UG/L
Benzo(a)pyrene	6	UG/L
Benzo(g,h,i)perylene	2	UG/L
Fluoranthene	29	UG/L
Fluorene	44	UG/L
Indeno(1,2,3-cd)pyrene	2	UG/L
Phenanthrene	170	UG/L
Pyrene	24	UG/L

F20GP005

Parameter	Result	Units
Benzene	2	UG/L
Toluene	4	UG/L
Ethylbenzene	5	UG/L
Xylene (Total)	21	UG/L
Total PAHs	**53**	**UG/L**
Naphthalene	**16**	**UG/L**
2-Methylnaphthalene	**32.6**	**UG/L**
Benzo(a)anthracene	1	UG/L
Benzo(b)fluoranthene	1	UG/L
Chrysene	2	UG/L

F20GP022

Parameter	Result	Units
Total PAHs	3	UG/L
Naphthalene	1	UG/L
2-Methylnaphthalene	2	UG/L



F20GP020

Parameter	Result	Units
Total PAHs	6	UG/L
2-Methylnaphthalene	6	UG/L

F20GP006

Parameter	Result	Units
Total PAHs	8	UG/L
Naphthalene	5	UG/L
2-Methylnaphthalene	3	UG/L

F20GP019

Parameter	Result	Units
Total PAHs	4	UG/L
2-Methylnaphthalene	4	UG/L

F20GP044

Parameter	Result	Units
Total PAHs	**33**	**UG/L**
Naphthalene	6	UG/L
2-Methylnaphthalene	**27**	**UG/L**

F20GP004

Parameter	Result	Units
Total PAHs	17	UG/L
Naphthalene	6	UG/L
2-Methylnaphthalene	**10.9**	**UG/L**

F20GP002

Parameter	Result	Units
Total PAHs	1	UG/L
Naphthalene	1	UG/L

F20GP001

Parameter	Result	Units
Total PAHs	14	UG/L
Naphthalene	1	UG/L
2-Methylnaphthalene	**13**	**UG/L**

F20GP018

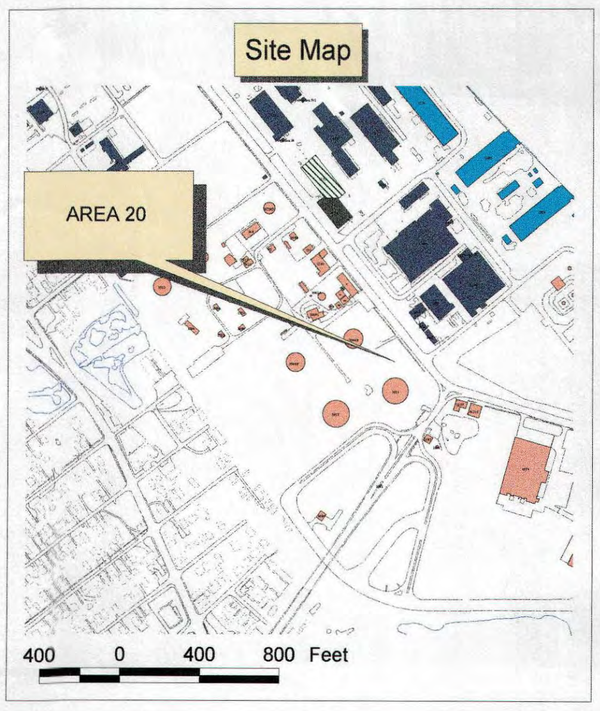
Parameter	Result	Units
Total PAHs	7	UG/L
Naphthalene	0.6	UG/L
2-Methylnaphthalene	0.53	UG/L
Benzo(a)anthracene	2	UG/L
Benzo(b)fluoranthene	1	UG/L
Benzo(k)fluoranthene	0.5	UG/L
Chrysene	2	UG/L

F20GP003

Parameter	Result	Units
Total PAHs	19	UG/L
Naphthalene	3	UG/L
2-Methylnaphthalene	9.6	UG/L
Benzo(a)anthracene	2	UG/L
Benzo(b)fluoranthene	2	UG/L
Chrysene	2	UG/L

F20GP045

Parameter	Result	Units
Acetone	8	UG/L
Benzoic acid	7	UG/L
Phenol	25	UG/L



100 0 100 200 Feet

Figure 4-7
Summary of DPT Groundwater Sample Results
Area 20

Legend

RBCA-listed Groundwater Parameters:

Parameter*	RBSL**	Units
Benzene	5	UG/L
Ethylbenzene	700	UG/L
Xylene (Total)	10,000	UG/L
Total PAHs	25	UG/L
2-Methylnapthalene	10	UG/L
Naphthalene	10	UG/L
Benzo(a)anthracene	10	UG/L
Benzo(b)fluoranthene	10	UG/L
Benzo(k)fluoranthene	10	UG/L
Chrysene	10	UG/L

* Only detected parameters are presented
** RBSL for groundwater

Fuel Line
Sludge Line
Zone E
Zone F
Zone G
Demolished
New

8' -- Groundwater Elevation, contour interval 1 ft.
Water Level Date -- 30 Sept 99
-- RBSL exceedances at this location
-- Detections with no RBSL exceedances
-- DPT Groundwater Sampling Point, no detections
-- DPT Soil/GW Sampling Point, no detections
-- DPT Soil Sampling Point
-- Shallow Groundwater Monitoring Well

RED TEXT -- RBCA-listed Parameter
Bold Text -- Results exceed applicable RBSL
BLACK TEXT -- Non-RBCA-listed Parameter

are likely related to the fuel pipeline along Hobson Avenue which passes through this portion of the site. Other exceedances were observed at either end of the IM footprint and along the pipeline that parallels Viaduct Road, and are most likely attributable to the releases at Area 20.

Monitoring Wells

Based on the DPT groundwater analytical results, six shallow monitoring wells were installed at Area 20 using the hollow-stem auger procedures used at Area 19. Table 4.9 depicts the groundwater samples collected from site monitoring wells at Area 20. Samples were analyzed for TAL/TCL VOCs, SVOCs, and metals, which included the RBCA groundwater parameters. VOC analyses also included MTBE and EDB. Table 4.10 summarizes the groundwater analytical results for Area 20 monitoring wells. The inorganic background concentrations for this portion of CNC (derived from nearby AOCs 619 and 620 in Zone F) (E/A&H, December 31, 1997) are shown for comparison. Figure 4-8 shows the compounds detected in Area 20 monitoring well samples.

No VOCs, including MTBE and EDB, were detected in shallow groundwater at Area 20 and no SVOCs or inorganics were detected above their respective RBSLs. Groundwater flows to the northeast at Area 20, and any contaminants migrating in shallow groundwater would likely be detected at downgradient monitoring wells FDS20C or FDS20F. The areas of groundwater contamination identified during DPT sampling appear to be delineated by monitoring wells exhibiting no RBSL exceedances, and groundwater contaminants therefore are considered delineated at Area 20.

4.2.4 Non-RBCA Concerns at Area 20

No detections of non-RBCA-listed soil parameters exceeded an appropriate SSL. Non-RBCA-listed organic detections above appropriate tap-water RBCs occurred at Area 20, as listed in Table 4.8. These included benzo(a)pyrene, dibenzofuran, fluorene, indeno(1,2,3-cd)pyrene, pentachlorophenol, and pyrene.

Table 4.9
Groundwater Samples and Analyses
Area 20

Well Identifier	Sample Identifier	Date Sampled	Analyses
FDS20A	FDS20A01	12/01/99	VOCs, SVOCs, Metals, MTBE, EDB
FDS20B	FDS20B01	12/01/99	VOCs, SVOCs, Metals, MTBE, EDB
FDS20C	FDS20C01	12/02/99	VOCs, SVOCs, Metals, MTBE, EDB
FDS20D	FDS20D01	12/02/99	VOCs, SVOCs, Metals, MTBE, EDB
FDS20E	FDS20E01	12/02/99	VOCs, SVOCs, Metals, MTBE, EDB
FDS20F	FDS20F01	12/02/99	VOCs, SVOCs, Metals, MTBE, EDB

Notes:
EDB = Ethylene dibromide.
MTBE = Methyl tertiary-butyl ether.
SVOCs = Semivolatile Organic Compounds.
VOCs = Volatile Organic Compounds.
Metals = Arsenic, barium, cadmium, total chromium, mercury, selenium, silver.

Table 4.10
Summary of Shallow Monitoring Well Analytical Results
Area 20

Parameters	Location	Concentration	RBSL	Tap Water RBC	MCL	Shallow Background
Semivolatile Organic Compounds (μg/L)						
Total PAHs*	FDS20A FDS20C	3 3	25	NL	NL	NA
2-Methylnaphthalene*	FDS20A FDS20C	3 2	10	12	NL	NA
Naphthalene*	FDS20C	1	10	0.65	NL	NA
4-Chloro-3-methylphenol	FDS20A	1	NL	3	NL	NA
4-Methylphenol	FDS20B FDS20C FDS20E	1 1 8	NL	18	NL	NA
4-Nitrophenol	FDS20C	1	NL	29	NL	NA
Acenaphthene	FDS20A FDS20C FDS20E FDS20F	2 5 1 2	NL	37	NL	NA
Anthracene	FDS20A FDS20C	1 1	NL	180	NL	NA

Table 4.10
Summary of Shallow Monitoring Well Analytical Results
Area 20

Parameters	Location	Concentration	RBSL	Tap Water RBC	MCL	Shallow Background
Benzoic acid	FDS20A	1.5	NL	15,000	NL	NA
	FDS20B	2				
	FDS20C	1				
	FDS20D	1				
	FDS20E	4				
Dibenzofuran	FDS20C	2	NL	2.4	NL	NA
Diethylphthalate	FDS20A	1	NL	2,900	NL	NA
Di-n-butylphthalate	FDS20A	1	NL	370	NL	NA
	FDS20B	1				
	FDS20C	0.6				
	FDS20D	1				
Fluoranthene	FDS20C	1	NL	150	NL	NA
Fluorene	FDS20C	4	NL	24	NL	NA
	FDS20F	1				
Pentachlorophenol	FDS20C	1	NL	0.56	NL	NA
Phenanthrene	FDS20A	1	NL	18	NL	NA
	FDS20B	1				
	FDS20C	7				
	FDS20E	2				
Phenol	FDS20A	1	NL	2,200	NL	NA
Pyrene	FDS20A	1	NL	18	NL	NA
	FDS20C	1				
Inorganics (μg/L)						
Arsenic (As)	FDS20A	5.5	50	0.045	50	17.8
	FDS20B	11.3				
	FDS20C	13.4				
	FDS20D	3.7				
	FDS20E	15.8				
Barium (Ba)	FDS20A	94.6	2,000	260	2,000	31
	FDS20B	142				
	FDS20C	428				
	FDS20D	79.3				
	FDS20E	146				
	FDS20F	45.4				
Cadmium (Cd)	FDS20C	1.2	5	1.8	5	0.53
	FDS20D	0.36				
	FDS20E	0.89				

Table 4.10
Summary of Shallow Monitoring Well Analytical Results
Area 20

Parameters	Location	Concentration	RBSL	Tap Water RBC	MCL	Shallow Background
Chromium (Cr)	FDS20A	1.15	100	11	100	3.88
	FDS20B	2				
	FDS20C	3.9				
	FDS20D	2.6				
	FDS20E	2.4				
	FDS20F	0.56				
Lead (Pb)	FDS20B	2.2	15	15	15	15.4
	FDS20C	3.1				

Notes:
NL = Not listed.
μg/L = Micrograms per liter.
* = RBCA-Regulated Parameter.
MCL = Maximum Contaminant Level.
RBSLs from the *South Carolina Risk-Based Corrective Action for Petroleum Releases* (SCDHEC, January 5, 1998) were used as reference concentrations.
Bolded concentrations exceed RBSL.

Figure 4-8
Summary of Monitoring Well Sample Results
Area 20

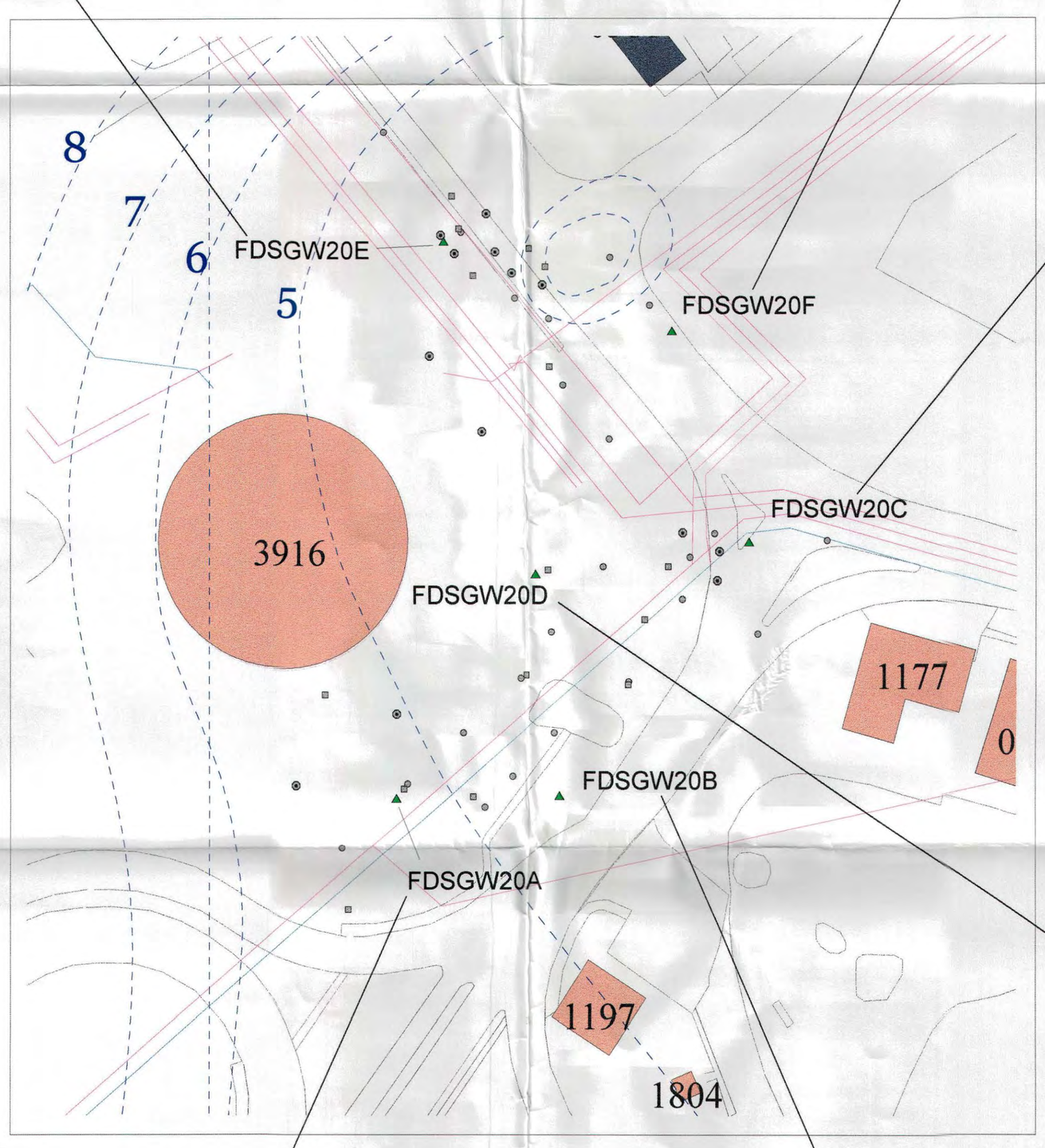
N

FDSGW20E

Parameter	Result	Units
4-Methylphenol (p-Cresol)	8	UG/L
Acenaphthene	1	UG/L
Benzoic acid	4	UG/L
Phenanthrene	2	UG/L
Arsenic (As)	15.8	UG/L
Barium (Ba)	146	UG/L
Cadmium (Cd)	0.89	UG/L
Chromium (Cr)	2.4	UG/L

FDSGW20F

Parameter	Result	Units
Acenaphthene	2	UG/L
Fluorene	1	UG/L
Barium (Ba)	45.4	UG/L
Chromium (Cr)	0.56	UG/L



FDSGW20C

Parameter	Result	Units
Total PAHs	3	UG/L
Naphthalene	1	UG/L
2-Methylnaphthalene	2	UG/L
4-Methylphenol (p-Cresol	1	UG/L
4-Nitrophenol	1	UG/L
Acenaphthene	5	UG/L
Anthracene	1	UG/L
Benzoic acid	1	UG/L
Dibenzofuran	2	UG/L
Di-n-butylphthalate	0.6	UG/L
Fluoranthene	1	UG/L
Fluorene	4	UG/L
Pentachlorophenol	1	UG/L
Phenanthrene	7	UG/L
Pyrene	1	UG/L
Arsenic (As)	13.4	UG/L
Barium (Ba)	428	UG/L
Cadmium (Cd)	1.2	UG/L
Chromium (Cr)	3.9	UG/L
Lead (Pb)	3.1	UG/L

FDSGW20D

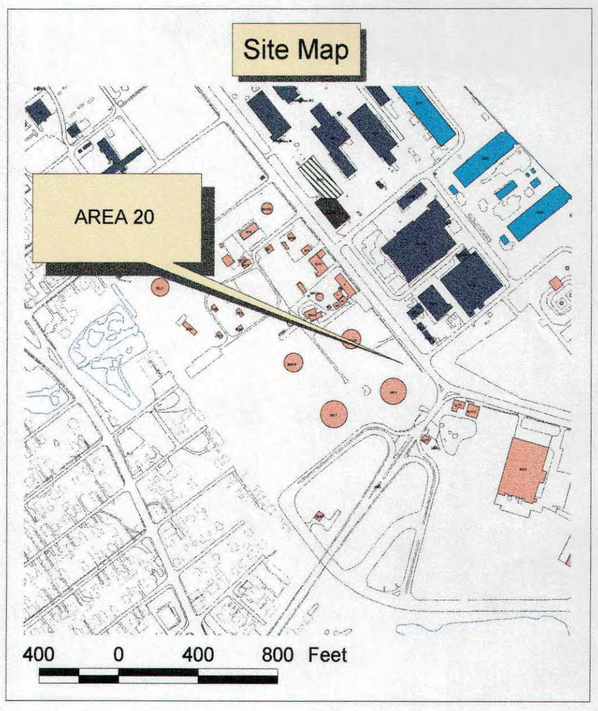
Parameter	Result	Units
Benzoic acid	1	UG/L
Di-n-butylphthalate	1	UG/L
Arsenic (As)	3.7	UG/L
Barium (Ba)	79.3	UG/L
Cadmium (Cd)	0.36	UG/L
Chromium (Cr)	2.6	UG/L

FDSGW20A

Parameter	Result	Units
Total PAHs	3	UG/L
2-Methylnaphthalene	3	UG/L
4-Chloro-3-methylphenol	1	UG/L
Acenaphthene	2	UG/L
Anthracene	1	UG/L
Benzoic acid	1.5	UG/L
Diethylphthalate	1	UG/L
Di-n-butylphthalate	1	UG/L
Phenanthrene	1	UG/L
Phenol	1	UG/L
Pyrene	1	UG/L
Arsenic (As)	5.5	UG/L
Barium (Ba)	94.55	UG/L
Chromium (Cr)	1.15	UG/L

FDSGW20B

Parameter	Result	Units
4-Methylphenol (p-Cresol)	1	UG/L
Benzoic acid	2	UG/L
Di-n-butylphthalate	1	UG/L
Phenanthrene	1	UG/L
Arsenic (As)	11.3	UG/L
Barium (Ba)	142	UG/L
Chromium (Cr)	2	UG/L
Lead (Pb)	2.2	UG/L



100 0 100 200 Feet

Figure 4-8
Summary of Monitoring Well Sample Results
Area 20

Legend

RBCA-listed Groundwater Parameters:

Parameter*	RBSL**	Units
Total PAHs	25	UG/L
Naphthalene	10	UG/L
Arsenic (As)	50	UG/L
Barium (Ba)	2000	UG/L
Chromium (Cr)	100	UG/L
Lead (Pb)	15	UG/L

* Only detected parameters are presented
** RBSL for groundwater

Fuel Line
Sludge Line
Zone E
Zone F
Zone G
Demolished
New
8' -- Groundwater Elevation, contour interval 1 ft.
Water Level Date -- 30 Sept 99
RBCA -- Risk-Based Corrective Action.
RBSL -- Risk-Based Screening Level.
UG/L -- Micrograms per liter
▲ -- Detections with no RBSL exceedances
-- DPT Soil Sampling Point
-- DPT Groundwater Sampling Point
-- DPT Soil/GW Sampling Point
RED TEXT -- RBCA-listed Parameter
BLACK TEXT -- Non-RBCA-listed Parameter

4.3 Area 21

Prior to being designated as Area 21, this area was referred to as the Hobson Fuel Farm (previously defined as the "HFF"). Area 21 encompasses the area surrounding Tanks 3900E, 3900F, 3916, and 3917 (Figure 4-9). Area 21 originally included four 55,000-barrel concrete tanks with brick facing. In 1974, two of these tanks (former 3900G and 3900H) were switched from storing Navy Special Fuel Oil to the less viscous Navy Distillate. The tanks began to leak, and were taken out of service in 1975. These tanks were demolished in late 1991, and the current steel tanks (3916 and 3917) were constructed in early 1992. The area was used as a fuel farm until the CNC was closed in the early 1990s. Previous investigations at Area 21 included the ESE and KEMRON investigations, and NFESC SCAPS Study (see Sections 2.2, 2.3, and 2.4, respectively). The Phase I TPH survey during the FDS investigation included sampling at Area 21, but no TPH results exceeded the conservative screening value used. Therefore, no Phase II samples were collected in this area (see the FDS CAR [EnSafe, September 10, 1998]).

The primary purpose of the Area 21 investigation was a focused review of previous investigations and adequate characterization of the area to support site closeout requirements. The secondary purpose was to provide sufficient information to assist the Project Team in making a site disposition recommendation to the RDA. The Area 21 investigation included sampling in areas not investigated during the FDS Phase II sampling. Particular focus was placed on the possibility that RCRA constituents (non-RBCA-listed parameters) might also have been previously overlooked. Samples were also collected from the area previously investigated by ESE and KEMRON to ensure the area being considered for redevelopment was adequately characterized.

4.3.1 Field Investigation Approach

Table 4.11 depicts the soil and groundwater DPT samples collected and analyses performed at Area 21. Surface and subsurface soil samples were collected at Area 21, as opposed to only subsurface sampling at Areas 19 and 20. Surface soil samples were collected because no buried

Table 4.11
DPT Soil and Groundwater Samples and Analyses
Area 21

Sample Location	Sample Identifier	Medium	Date Collected	Analyses	Purpose
SP001/ GP0011[a]	HFFSP00101 HFFSP00102 HFFGP00101	Surface Soil Subsurface Soil Groundwater	9/29/00 " 10/02/00	VOCs, SVOCs " "	Delineate/confirm petroleum contamination estimated by ESE/KEMRON near Tank 3916 and identify potential associated RCRA concerns.
SP002	HFFSP00201 HFFSP00202	Surface Soil Subsurface Soil	9/29/00 "	VOCs, SVOCs "	Delineate/confirm petroleum contamination estimated by ESE/KEMRON near Tank 3916 and identify potential associated RCRA concerns.
SP003	HFFSP00301 HFFSP00302	Surface Soil Subsurface Soil	1/21/99 4/12/99	VOCs, SVOCs "	Delineate/confirm petroleum contamination estimated by ESE/KEMRON near Tank 3916 and identify potential associated RCRA concerns.
SP004/ GP004[a]	HFFSP00401 HFFSP00402 HFFGP00401 HFFHP00401[b]	Surface Soil Subsurface Soil Groundwater "	9/29/00 " 10/01/00 "	VOCs, SVOCs " " "	Screen for/confirm petroleum contamination and identify potential RCRA concerns associated with Tank 3900E.
SP005	HFFSP00501 HFFSP00502	Surface Soil Subsurface Soil	9/29/00 "	VOCs, SVOCs "	Screen for/confirm petroleum contamination and identify potential RCRA concerns associated with Tank 3900E.
SP006/ GP006[a]	HFFSP00601 HFFCP00601[b] HFFSP00602 HFFCP00602[b] HFFGP00601	Surface Soil " Subsurface Soil " Groundwater	9/28/00 " " " 10/01/00	VOCs, SVOCs " " SVOCs VOCs, SVOCs	Screen for petroleum contamination and identify potential RCRA concerns associated with Tank 3900F.
SP007	HFFSP00701 HFFSP00702	Surface Soil Subsurface Soil	9/29/00 "	VOCs, SVOCs "	Screen for petroleum contamination and identify potential RCRA concerns associated with Tank 3900F.
SP008	HFFSP00801 HFFSP00802	Surface Soil Subsurface Soil	9/28/00 "	VOCs, SVOCs "	Delineate/confirm petroleum contamination estimated by ESE/KEMRON near Tank 3917 and identify potential associated RCRA concerns.
SP009	HFFSP00901 HFFSP00902	Surface Soil Subsurface Soil	9/28/00 "	VOCs, SVOCs "	Delineate/confirm petroleum contamination estimated by ESE/KEMRON near Tank 3917 and identify potential associated RCRA concerns.

Table 4.11
DPT Soil and Groundwater Samples and Analyses
Area 21

Sample Location	Sample Identifier	Medium	Date Collected	Analyses	Purpose
SP010/ GP010[a]	HFFSP01001	Surface Soil	9/28/00	VOCs, SVOCs	Delineate/confirm petroleum contamination estimated by ESE/KEMRON near Tank 3917 and identify potential associated RCRA concerns.
	HFFSP01002	Subsurface Soil	"	"	
	HFFGP01001	Groundwater	10/01/00	"	
	HFFGP01002	Groundwater	02/21/01	VOCs	Vertical profiling of groundwater VOCs. The last two digits of GP1015 through GP1030 denote the depth of the sample.
	HFFGP01015		02/23/01	"	
	HFFGP01025		"	"	
	HFFGP10030		"	"	
SP011	HFFSP01101	Surface Soil	11/15/00	VOCs, SVOCs	Delineate soil contamination associated with sample HFFSP00802.
	HFFSP01102	Subsurface Soil	"	"	
GP011	HFFGP01101	Groundwater	10/01/00	VOCs, SVOCs	Identify potential petroleum/RCRA groundwater contamination south of ESE/KEMRON area.
	HFFGP01102	Groundwater	02/23/01	VOCs	Vertical profiling of groundwater VOCs. The last two digits of GP1015 through GP1030 denote the depth of the sample.
	HFFGP01115		"	"	
	HFFGP01120		"	"	
	HFFGP01125		"	"	
	HFFGP01130		"	"	
SP012	HFFSP01201	Surface Soil	11/15/00	VOCs, SVOCs	Delineate soil contamination associated with sample HFFSP00802.
	HFFSP01202	Subsurface Soil	"	"	
GP012	HFFGP01201	Groundwater	10/02/00	VOCs, SVOCs	Identify potential petroleum/RCRA groundwater contamination northwest of Tank 3900E.
SP013	HFFSP01301	Surface Soil	11/15/00	VOCs, SVOCs	Delineate soil contamination associated with sample HFFSP00802.
	HFFSP01302	Subsurface Soil	"	"	
GP013	HFFGP01301	Groundwater	10/01/00	VOCs, SVOCs	Identify potential petroleum/RCRA groundwater contamination southwest of Tank 3900F.
SP014	HFFSP01401	Surface Soil	11/15/00	VOCs, SVOCs	Delineate soil contamination associated with sample HFFSP00802.
	HFFSP01402	Subsurface Soil	"	"	
GP014	HFFGP01405	Groundwater	02/21/01	VOCs	Vertical profiling of groundwater VOCs. The last two digits of the ID denote the depth of the sample.
	HFFGP01410		"	"	
	HFFGP01415		"	"	
	HFFGP01425		"	"	
	HFFGP01430		"	"	
GP015	HFFGP01505	Groundwater	02/23/01	VOCs	Vertical profiling of groundwater VOCs. The last two digits of the ID denote the depth of the sample.
	HFFGP01515		"	"	
	HFFGP01520		"	"	
	HFFGP01530		"	"	

Table 4.11
DPT Soil and Groundwater Samples and Analyses
Area 21

Sample Location	Sample Identifier	Medium	Date Collected	Analyses	Purpose
GP016	HFFGP01605	Groundwater	02/21/01	VOCs	Vertical profiling of groundwater VOCs. The last two digits of the ID denote the depth of the sample.
	HFFGP01610		"	"	
	HFFGP01625		"	"	
	HFFGP01630		"	"	

Notes:
SVOCs = Semivolatile Organic Compounds.
VOCs = Volatile Organic Compounds.
a = Soil and groundwater samples were co-located at this point.
b = Duplicate sample.

pipelines or tanks exist at Area 21, and petroleum leaks would have originated from aboveground pipes and storage tanks, making surface soil contamination the major concern at the site. Subsurface soil samples were also collected to address groundwater leachability concerns and the possible presence of subsurface RCRA contaminants. DPT shallow groundwater samples were collected to address potential impacts to site groundwater. Following the DPT groundwater investigation, additional DPT groundwater points were pushed to address the vertical distribution of VOCs in site groundwater.

Figure 4-9 presents site features and the soil and groundwater DPT sample locations. Details on the number and type of samples collected, analyses performed, and sample results are discussed below.

4.3.2 Area 21 Soil Sample Results

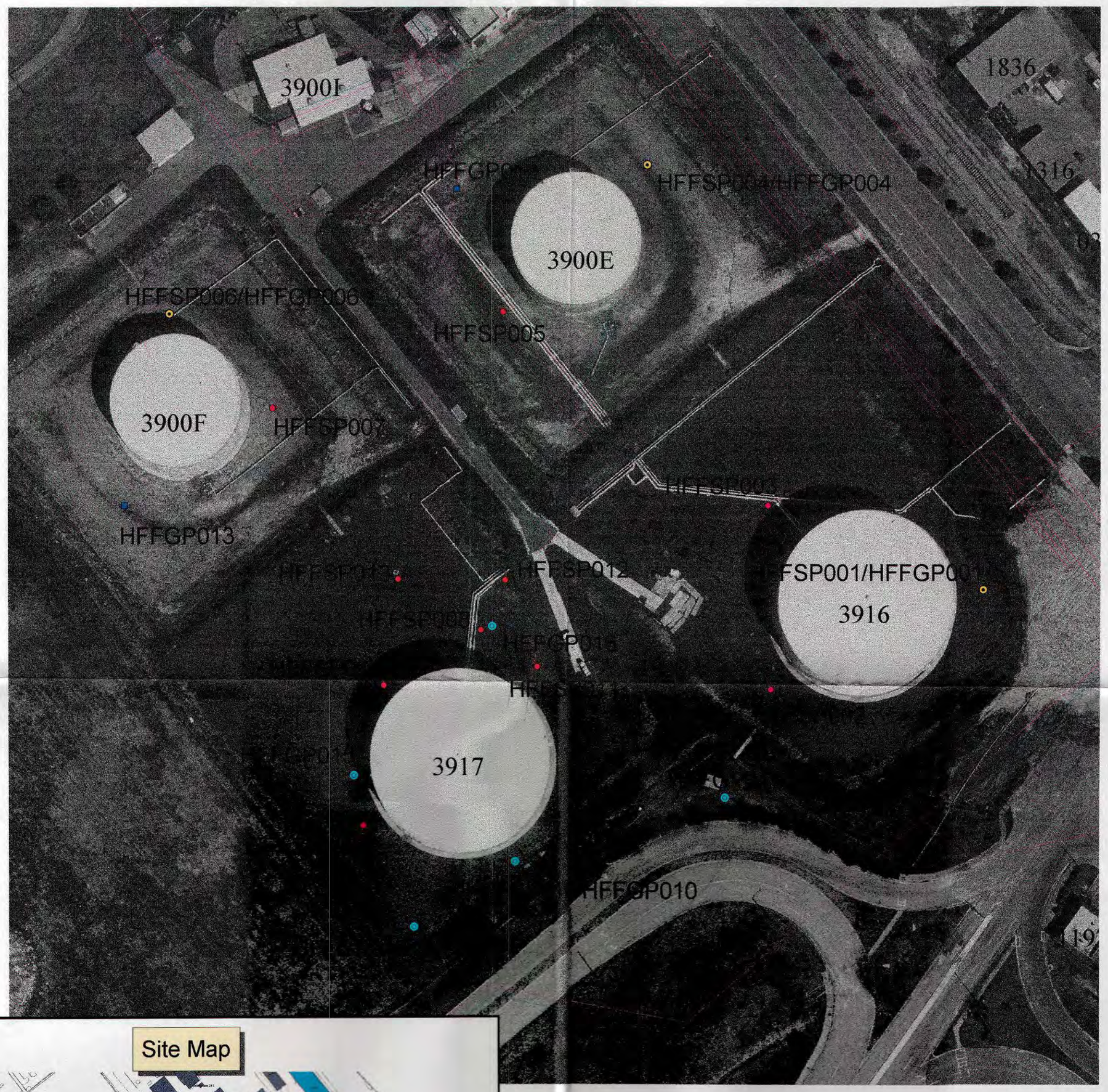
Fourteen DPT soil borings were advanced at Area 21. No free product was observed during sampling. Surface and subsurface sample results from these borings were compared to the appropriate RBCA RBSLs. Table 4.12 summarizes the analytical results of DPT soil sampling. Figures 4-10 and 4-11 show the compounds detected in DPT surface and subsurface soil samples, respectively, including exceedances of RBCA-listed parameters.

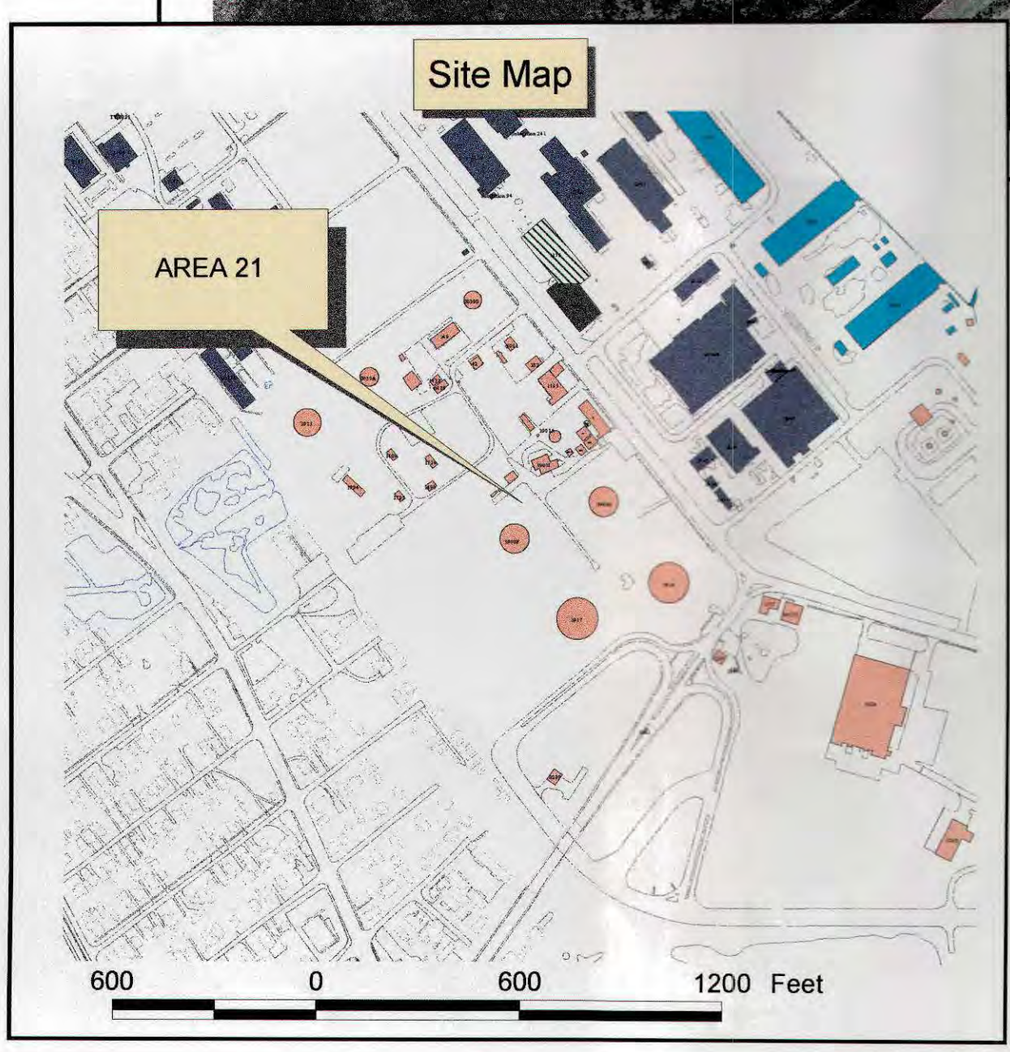
The only RBCA-listed VOC detected at Area 21 was ethylbenzene, which was found in subsurface soil at location HFFSP002 (2 μg/kg). This concentration was below the RBCA groundwater protection RBSL of 1,260 μg/kg.

Twenty-one SVOCs were detected in soil during the Area 21 investigation (Table 4.12). Of these, total naphthalenes, naphthalene, 2-methylnaphthalene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chyrsene and dibenz(a,h)anthracene are SCDHEC RBCA-listed fuel constituents. Seven of these parameters exceeded the RBCA dermal protection

Figure 4-9
Soil and Goundwater Sample Locations
Area 21

N





100 0 100 200 Feet

Figure 4-9
Soil and Goundwater Sample Locations
Area 21

Legend

- -- DPT Soil Sampling Point
- -- DPT Groundwater Sampling Point
- -- DPT Soil/Groundwater Sampling Point
- -- Groundwater Vertical Profiling Point

Fuel Line
Sludge Line

Zone E
Zone F
Zone G

Demolished
New

Aerial Photo Date -- 15 March 98

Table 4.12
Summary of DPT Soil Analytical Results
Area 21

Parameters	Location	Surface Conc.	Subsurface Conc.	Dermal Protection RBSL	GW Protection RBSL	RBC	SSL
Volatile Organic Compounds (μg/kg)							
Acetone	HFFSP004	2700D	ND	NL	NL	780,000	5,700
	HFFSP009	ND	92				
	HFFSP011	17	ND				
	HFFSP012	ND	6				
	HFFSP013	16	8				
	HFFSP014	ND	7				
Chlorobenzene	HFFSP008	ND	10	NL	NL	160,000	1,900
Chloroform	HFFSP014	ND	0.90	NL	NL	100000	480
Ethylbenzene*	HFFSP002	ND	2J	780,000	1,260	NA	21,000
Methylene Chloride	HFFSP001	4J	ND	NL	NL	85000	12
	HFFSP005	ND	4J				
	HFFSP006	9	ND				
Semivolatile Organic Compounds (μg/kg)							
Total Naphthalenes*	HFFSP006	**1915**[b]	ND	310,000	210	NL	NL
	HFFSP008	ND	**7200**[b]				
2-Methylnaphthalene*	HFFSP006	810J	ND	NL	NL	160,000	73,000
	HFFSP008	ND	3000D				
Naphthalene*	HFFSP006	**1105**[b]	ND	3,100,000	210	160,000	120,000
	HFFSP008	ND	**4200D**[b]				
Benzo(a)anthracene*	HFFSP002	ND	75J	880	73,084	870	3,900
	HFFSP003	ND	78J				
	HFFSP004	**13000**[a]	31J				
	HFFSP005	830	ND				
	HFFSP006	**15450**[a]	ND				
	HFFSP007	**2100D**[a]	ND				
	HFFSP008	26J	9500D				
	HFFSP008	ND	48				
Benzo(b)fluoranthene*	HFFSP004	**12000**[a]	ND	880	29,097	870	12,000
	HFFSP005	660	ND				
	HFFSP006	**17330**[a]	ND				
	HFFSP007	**1400**[a]	ND				
	HFFSP008	ND	11000D				
Benzo(k)fluoranthene*	HFFSP004	**8700**[a]	ND	880	231,109	8700	120,000
	HFFSP005	740	ND				
	HFFSP006	**8770**[a]	ND				
	HFFSP007	**1700D**[a]	ND				

Table 4.12
Summary of DPT Soil Analytical Results
Area 21

Parameters	Location	Surface Conc.	Subsurface Conc.	Dermal Protection RBSL	GW Protection RBSL	RBC	SSL
Chrysene*	HFFSP002	ND	130J	880	12,998	87,000	1,390,000
	HFFSP003	ND	89J				
	HFFSP004	**13000**[a]	33J				
	HFFSP005	850	ND				
	HFFSP006	**13930**[a]	ND				
	HFFSP007	**2100D**[a]	ND				
	HFFSP008	28J	8500D				
	HFFSP009	ND	45J				
Dibenz(a,h)anthracene*	HFFSP004	**1200J**[a]	ND	88	87,886	87	3,700
	HFFSP006	**1200**[a]	ND				
	HFFSP007	**210J**[a]	ND				
	HFFSP008	ND	1400				
Acenaphthene	HFFSP002	ND	66J	NL	NL	47,000	1,300,000
	HFFSP004	1500	ND				
	HFFSP005	62J	ND				
	HFFSP006	3860	ND				
	HFFSP007	280J	ND				
	HFFSP008	ND	8800D				
Acenaphthylene	HFFSP006	300J	ND	NL	NL	160,000	190,000
	HFFSP008	ND	290J				
Anthracene	HFFSP004	4500	ND	NL	NL	230,000	2.6E+07
	HFFSP005	260J	ND				
	HFFSP006	810	ND				
	HFFSP007	990D	ND				
	HFFSP008	ND	6300D				
Benzo(a)pyrene	HFFSP002	ND	62J	NL	NL	87	17,000
	HFFSP003	ND	78J				
	HFFSP004	11000	ND				
	HFFSP005	770	ND				
	HFFSP006	10850	ND				
	HFFSP007	1600	ND				
	HFFSP008	ND	7400D				
	HFFSP009	ND	49				
	HFFSP013	ND	110J				
Benzo(g,h,i)perylene	HFFSP004	3800J	ND	NL	NL	160,000	2.3E+07
	HFFSP005	300J	ND				
	HFFSP006	4720	ND				
	HFFSP007	780	ND				
	HFFSP008	ND	4000D				
Benzoic acid	HFFSP004	ND	420J	NL	NL	310,000	230,000
	HFFSP006	260J	260J				
	HFFSP008	200	ND				
	HFFSP009	ND	410J				
bis(2-Ethylhexyl)phthalate	HFFSP006	180J	ND	NL	NL	46,000	740,000

Table 4.12
Summary of DPT Soil Analytical Results
Area 21

Parameters	Location	Surface Conc.	Subsurface Conc.	Dermal Protection RBSL	GW Protection RBSL	RBC	SSL
Dibenzofuran	HFFSP006	2690	ND	NL	NL	31,000	27,000
	HFFSP007	140J	ND				
	HFFSP008	ND	5000D				
Di-n-butylphthalate	HFFSP011	340J	ND	NL	NL	780,000	1.0E+07
	HFFSP014	ND	110J				
Fluoranthene	HFFSP004	27000	ND	NL	NL	310,000	1.3E+07
	HFFSP005	1500	ND				
	HFFSP006	36550	ND				
	HFFSP007	4000D	ND				
	HFFSP008	ND	24000D				
Fluorene	HFFSP004	1700J	ND	NL	NL	310,000	1,700,000
	HFFSP005	70J	ND				
	HFFSP006	5255	ND				
	HFFSP007	360J	ND				
	HFFSP008	ND	8400D				
Indeno(1,2,3-cd)pyrene	HFFSP004	4800	ND	NL	NL	870	34,000
	HFFSP005	360	ND				
	HFFSP006	4855	ND				
	HFFSP007	900	ND				
	HFFSP008	ND	3600D				
Phenanthrene	HFFSP003	ND	47J	NL	NL	230,000	2,700,000
	HFFSP004	14000	ND				
	HFFSP005	670	ND				
	HFFSP006	34050	ND				
	HFFSP007	3000D	ND				
	HFFSP008	70J	31000D				
Pyrene	HFFSP002	ND	1100	NL	NL	230,000	9,400,000
	HFFSP004	20000	ND				
	HFFSP005	1600	ND				
	HFFSP006	25200	ND				
	HFFSP007	4200D	ND				
	HFFSP008	ND	22000D				

Notes:
NL = Not listed
NA = Not applicable
ND = Not detected.
μg/kg = Micrograms per kilogram
* = Denotes regulated fuel constituent.
a = Exceeds Dermal Protection RBSL
b = Exceeds Groundwater Protection RBSL.
RBSLs for groundwater protection from the *South Carolina Risk-Based Corrective Action for Petroleum Releases* (SCDHEC, January 5, 1998) were used as reference concentrations.
Bolded concentrations exceed RBSLS
J = Estimated value
D = Original sample was diluted and reanalyzed.

Figure 4-10
Summary of DPT Soil Sample Results (Surface Soil)
Area 21

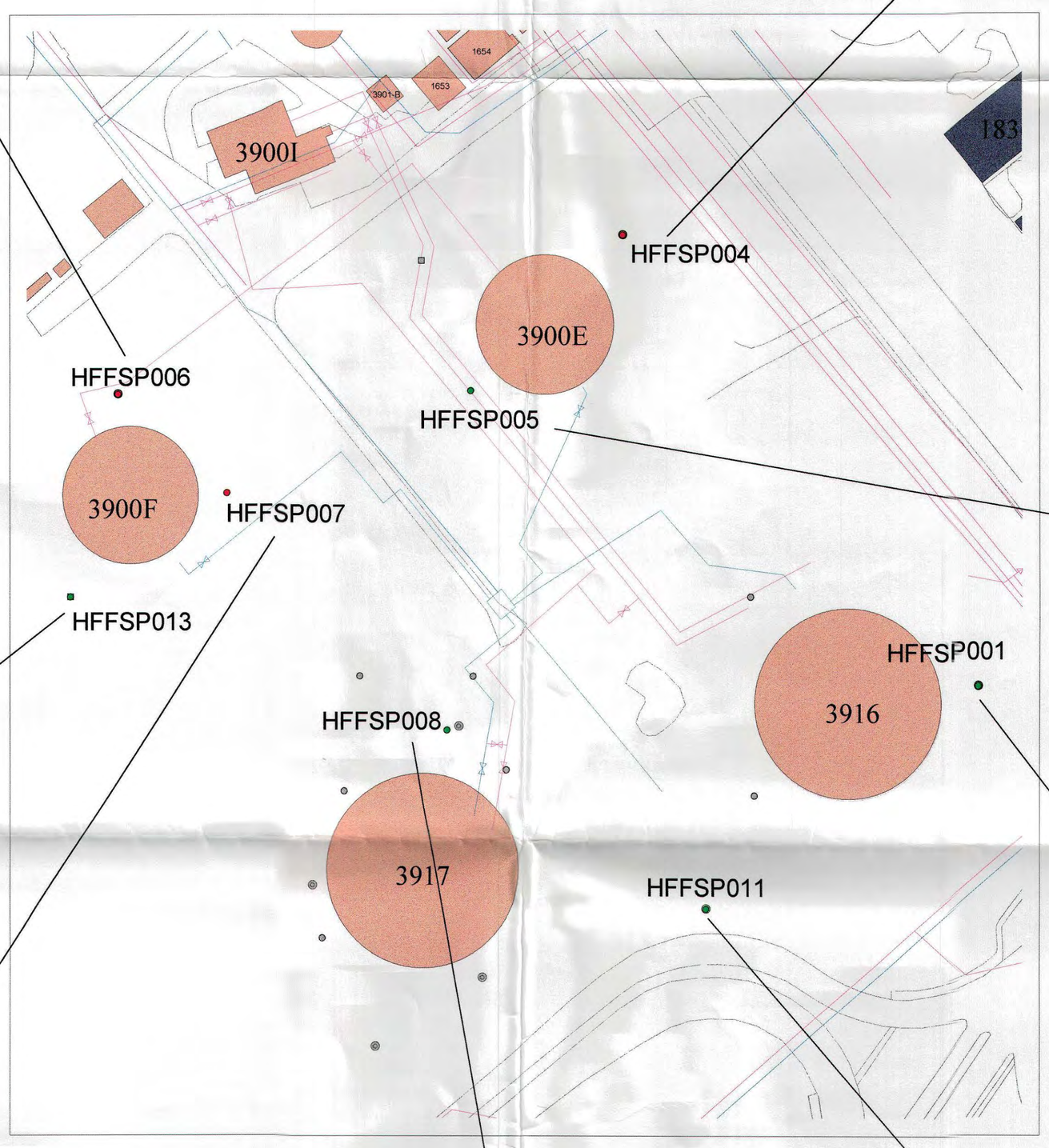
N

HFFSP006

Parameter	Result	Units
Methylene chloride	9	UG/KG
Total Naphthalenes	1915	UG/KG
Naphthalene	1105	UG/KG
2-Methylnaphthalene	810	UG/KG
Benzo(a)anthracene	**15450**	**UG/KG**
Benzo(b)fluoranthene	**17330**	**UG/KG**
Benzo(k)fluoranthene	**8770**	**UG/KG**
Chrysene	**13930**	**UG/KG**
Dibenz(a,h)anthracene	**1200**	**UG/KG**
Acenaphthene	3860	UG/KG
Acenaphthylene	300	UG/KG
Anthracene	810	UG/KG
Benzo(a)pyrene	10850	UG/KG
Benzo(g,h,i)perylene	4720	UG/KG
Benzoic acid	260	UG/KG
bis(2-Ethylhexyl)phthalate	180	UG/KG
Dibenzofuran	2690	UG/KG
Fluoranthene	36550	UG/KG
Fluorene	5255	UG/KG
Indeno(1,2,3-cd)pyrene	4855	UG/KG
Phenanthrene	34050	UG/KG
Pyrene	25200	UG/KG

HFFSP004

Parameter	Result	Units
Acetone	2700	UG/KG
Benzo(a)anthracene	**13000**	**UG/KG**
Benzo(b)fluoranthene	**12000**	**UG/KG**
Benzo(k)fluoranthene	**8700**	**UG/KG**
Chrysene	**13000**	**UG/KG**
Dibenz(a,h)anthracene	**1200**	**UG/KG**
Benzo(a)pyrene	11000	UG/KG
Acenaphthene	1500	UG/KG
Anthracene	4500	UG/KG
Benzo(g,h,i)perylene	3800	UG/KG
Fluoranthene	27000	UG/KG
Fluorene	1700	UG/KG
Indeno(1,2,3-cd)pyrene	4800	UG/KG
Phenanthrene	14000	UG/KG
Pyrene	20000	UG/KG



HFFSP005

Parameter	Result	Units
Benzo(a)anthracene	830	UG/KG
Benzo(b)fluoranthene	660	UG/KG
Benzo(k)fluoranthene	740	UG/KG
Chrysene	850	UG/KG
Acenaphthene	62	UG/KG
Anthracene	260	UG/KG
Benzo(a)pyrene	770	UG/KG
Benzo(g,h,i)perylene	300	UG/KG
Fluoranthene	1500	UG/KG
Fluorene	70	UG/KG
Indeno(1,2,3-cd)pyrene	360	UG/KG
Phenanthrene	670	UG/KG
Pyrene	1600	UG/KG

HFFSP013

Parameter	Result	Units
Acetone	16	UG/KG

HFFSP001

Parameter	Result	Units
Methylene chloride	4	UG/KG

HFFSP007

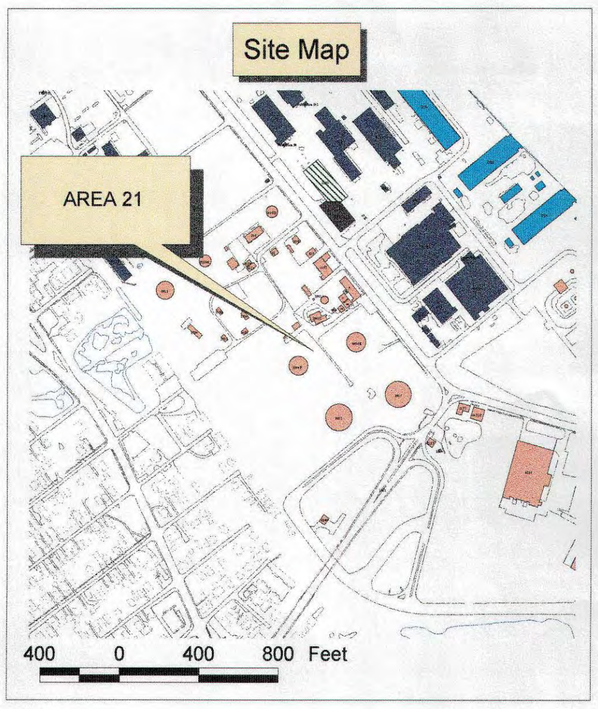
Parameter	Result	Units
Benzo(a)anthracene	**2100**	**UG/KG**
Benzo(b)fluoranthene	**1400**	**UG/KG**
Benzo(k)fluoranthene	**1700**	**UG/KG**
Chrysene	**2100**	**UG/KG**
Dibenz(a,h)anthracene	**210**	**UG/KG**
Acenaphthene	280	UG/KG
Anthracene	990	UG/KG
Benzo(a)pyrene	1600	UG/KG
Benzo(g,h,i)perylene	780	UG/KG
Dibenzofuran	140	UG/KG
Fluoranthene	4000	UG/KG
Fluorene	360	UG/KG
Indeno(1,2,3-cd)pyrene	900	UG/KG
Phenanthrene	3000	UG/KG
Pyrene	4200	UG/KG

HFFSP008

Parameter	Result	Units
Benzo(a)anthracene	26	UG/KG
Chrysene	28	UG/KG
Benzoic acid	200	UG/KG
Phenanthrene	70	UG/KG

HFFSP011

Parameter	Result	Units
Acetone	17	UG/KG
Di-n-butylphthalate	340	UG/KG



100 0 100 200 300 Feet

Figure 4-10
Summary of DPT Soil Sample Results (Surface Soil)
Area 21

Legend

RBCA-listed Soil Parameters:

Parameter*	RBSL**	Units
Total Naphthalenes	3,100,000	UG/KG
Naphthalene	3,100,000	UG/KG
Benzo(a)anthracene	880	UG/KG
Benzo(b)fluoranthene	880	UG/KG
Benzo(k)fluoranthene	880	UG/KG
Chrysene	880	UG/KG
Dibenz(a,h)anthracene	88	UG/KG

* Only detected parameters are presented
** Surface soil RBSL for ingestion or dermal contact with surficial soil

Fuel Line
Sludge Line
Zone E
Zone F
Zone G
Demolished
New

RBCA -- Risk-Based Corrective Action
RBSL -- Risk-Based Screening Level
UG/KG -- Micrograms per kilogram
-- RBSL exceedances at this location
-- Detections with no RBSL exceedances
-- DPT Soil Sampling Point, no detections
-- DPT Groundwater Sampling Point
-- DPT Soil/Groundwater Sampling Point
-- Groundwater Vertical Profiling Point
Bold Text -- Concentration exceeds appropriate RBSL
RED TEXT -- RBCA-listed Parameter
BLACK TEXT -- Non-RBCA-listed Parameter

Figure 4-11
Summary of DPT Soil Sample Results (Subsurface Soil)
Area 21

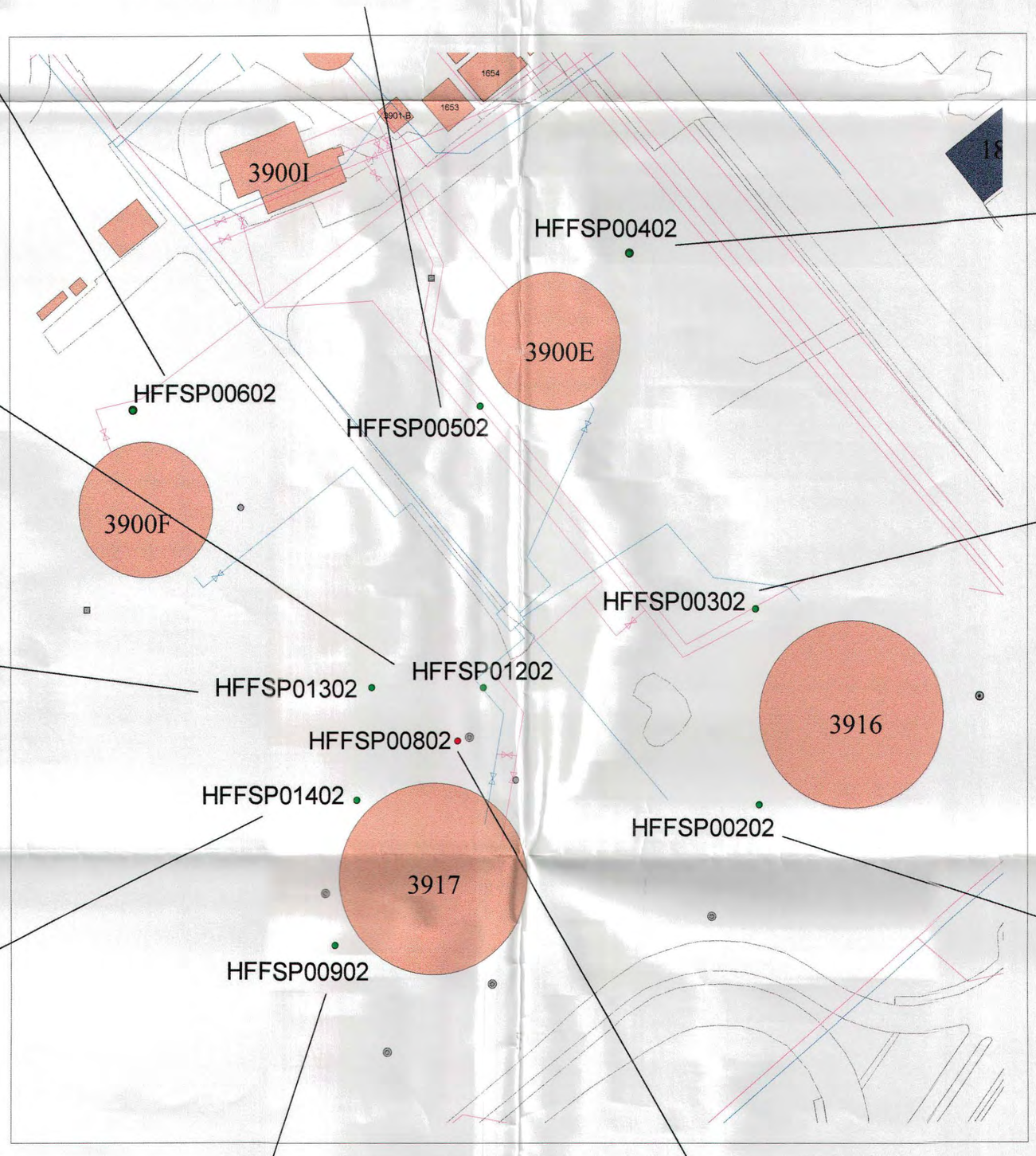
N

F20SP00602

Parameter	Result	Units
Benzoic acid	260	UG/KG

F20SP00502

Parameter	Result	Units
Methylene chloride	4	UG/KG



F20SP00402

Parameter	Result	Units	N5
Benzo(a)anthracene	31	J	UG/KG
Chrysene	33	J	UG/KG
Benzoic acid	420	J	UG/KG

F20SP01202

Parameter	Result	Units
Acetone	6	UG/KG

F20SP00302

Parameter	Result	Units
Benzo(a)anthracene	78	UG/KG
Chrysene	89	UG/KG
Benzo(a)pyrene	78	UG/KG
Phenanthrene	47	UG/KG

F20SP01302

Parameter	Result	Units
Acetone	8	UG/KG
Benzo(a)pyrene	110	UG/KG

F20SP00202

Parameter	Result	Units
Ethylbenzene	2	UG/KG
Benzo(a)anthracene	75	UG/KG
Chrysene	130	UG/KG
Acenaphthene	66	UG/KG
Benzo(a)pyrene	62	UG/KG
Pyrene	1100	UG/KG

F20SP01402

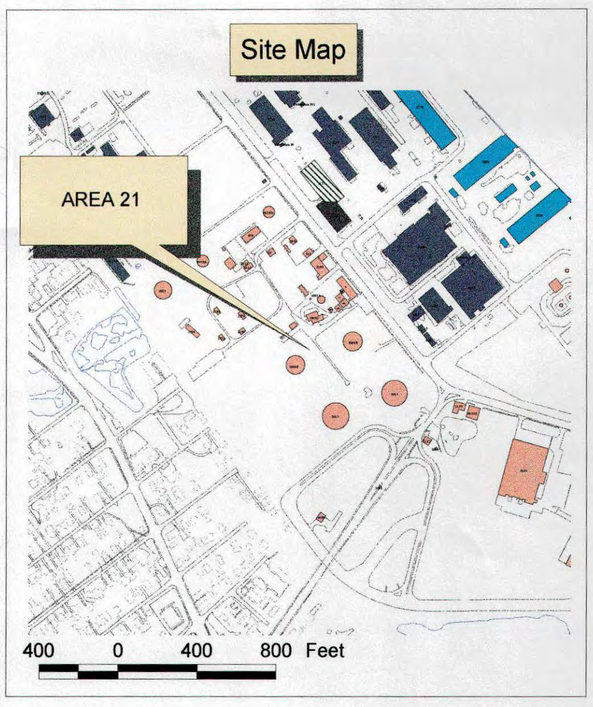
Parameter	Result	Units
Acetone	7	UG/KG
Chloroform	0.9	UG/KG
Di-n-butylphthalate	110	UG/KG

F20SP00902

Parameter	Result	Units
Acetone	92	UG/KG
Benzo(a)anthracene	48	UG/KG
Chrysene	45	UG/KG
Benzo(a)pyrene	49	UG/KG
Benzoic acid	410	UG/KG

F20SP00802

Parameter	Result	Units
Chlorobenzene	10	UG/KG
Total Naphthalenes	**7200**	**UG/KG**
Naphthalene	**4200**	**UG/KG**
2-Methylnaphthalene	3000	UG/KG
Benzo(a)anthracene	9500	UG/KG
Benzo(b)fluoranthene	11000	UG/KG
Chrysene	8500	UG/KG
Dibenz(a,h)anthracene	1400	UG/KG
Acenaphthene	8800	UG/KG
Acenaphthylene	290	UG/KG
Anthracene	6300	UG/KG
Benzo(a)pyrene	7400	UG/KG
Benzo(g,h,i)perylene	4000	UG/KG
Dibenzofuran	5000	UG/KG
Fluoranthene	24000	UG/KG
Fluorene	8400	UG/KG
Indeno(1,2,3-cd)pyrene	3600	UG/KG
Phenanthrene	31000	UG/KG
Pyrene	22000	UG/KG



100 0 100 200 300 400 500 Feet

Figure 4-11
Summary of DPT Soil Sample Results (Subsurface Soil)
Area 21

Legend

RBCA-listed Soil Parameters:

Parameter*	RBSL**	Units
Ethylbenzene	1,260	UG/KG
Total Naphthalenes	210	UG/KG
Naphthalene	210	UG/KG
Benzo(a)anthracene	73,084	UG/KG
Benzo(b)fluoranthene	29,097	UG/KG
Chrysene	12,998	UG/KG
Dibenz(a,h)anthracene	87,886	UG/KG

* Only detected parameters are presented
** Subsurface soil RBSL for sandy soil, less than 5-feet to groundwater (soil-to-groundwater leachability)

Fuel Line
Sludge Line
Zone E
Zone F
Zone G
Demolished
New

RBCA -- Risk-Based Corrective Action
RBSL -- Risk-Based Screening Level
UG/KG -- Micrograms per kilogram

- -- RBSL exceedances at this location
- -- Detections with no RBSL exceedances
- -- DPT Soil Sampling Point, no detections
- -- DPT Groundwater Sampling Point
- -- DPT Soil/Groundwater Sampling Point
- -- Groundwater Vertical Profiling Point

Bold Text -- Concentration exceeds appropriate RBSL
RED TEXT -- RBCA-listed Parameter
BLACK TEXT -- Non-RBCA-listed Parameter

RBSLs applicable to surface soil. These surface soil exceedances were limited to locations HFFSP004, HFFSP006 and HFFSP007 which were selected to screen for petroleum and non-petroleum constituents. Subsurface concentrations of these compounds at these locations all were either non-detect or below the applicable RBSL. Subsurface soil exceedances were limited to location HFFSP008. Concentrations of the RBCA-listed parameters total naphthalenes and naphthalene exceeded the RBSL of 210 μg/kg. No other subsurface concerns were identified.

4.3.3 Area 21 Groundwater Sample Results

Groundwater sampling at Area 21 consisted of collecting seven shallow DPT samples to characterize surficial groundwater beneath the site. As previously discussed for Area 19, DPT temporary well points were installed to sample site groundwater at Area 21. These samples were analyzed for VOCs and SVOCs. Table 4.13 summarizes the analytical results of DPT groundwater sampling. Figure 4-12 provides a data summary for this sampling. No RBCA-listed VOCs or SVOCs were detected in the initial DPT groundwater samples, but results revealed non-RBCA-listed VOCs and SVOCs. These are discussed in Section 4.3.4.

4.3.4 Non-RBCA Concerns at Area 21

Four non-RBCA-listed VOCs — acetone, chlorobenzene, chloroform, and methylene chloride — were detected in surface soil at Area 21. None of these analytes are addressed by the SCDHEC Petroleum Program RBCA guidance as a fuel constituent. In addition, none of these detections exceeded any other applicable screening value. These analytes were detected in samples intended to delineate or confirm the KEMRON results (HFFSP001, HFFSP008, HFFSP009, HFFSP011, HFFSP012, HFFSP013, and HFFSP014), and from sample points designed to identify the distribution of non-RBCA-listed parameters (HFFP004, HFFSP005 and HFFSP006).

Fourteen non-RBCA-listed SVOCs were detected in surface soil. Of these, only benzo(a)pyrene and indeno(1,2,3-cd)pyrene exceeded the applicable RBCs of 87 μg/kg and 870 μg/kg, respectively. Benzo(a)pyrene exceeded its RBC at locations HFFSP004 through HFFSP007.

Table 4.13
Summary of DPT Groundwater Analytical Results
Area 21

Parameters	Sample	Concentration	RBSL (μg/L)	Tap Water RBC (μg/L)	MCL (μg/L)
Volatile Organic Compounds (μg/L)					
Acetone	HFFGP01102	2.13J	NL	61	NL
1,2-Dichloroethene (total)	HFFGP01001 HFFGP01002	21 ND	NL	5.5	5
Methylene Chloride	HFFGP00101 HFFGP01002	3J 1.96J	NL	4.1	5
Semivolatile Organic Compounds (μg/L)					
Benzoic acid	HFFGP01201	11	NL	15,000	NL
Bis(2-ethylhexyl)phthalate	HFFGP00601 HFFGP01301	6J 6J	NL	4.8	6

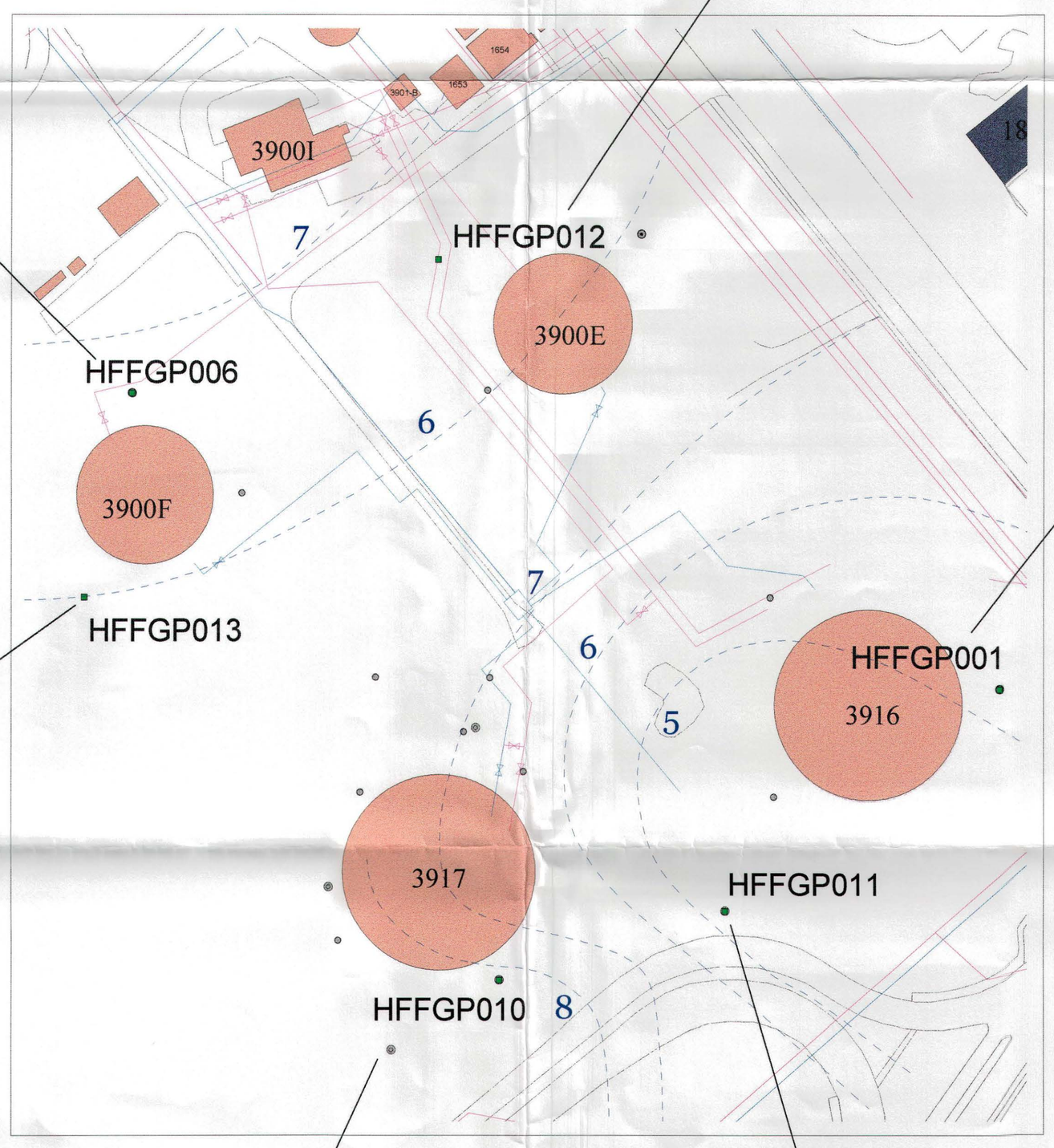
Notes:
NL = Not listed.
ND = Not detected.
J = Estimated Value.
RBSL = Risk-based Screening Level from the *South Carolina Risk-Based Corrective Action for Petroleum Releases* (SCDHEC, January 5, 1998).
RBC = USEPA Region III Tap Water Risk-Based Concentration (THQ=0.1).
MCL = USEPA Maximum Contaminant Level.
μg/L = Micrograms per liter.

Figure 4-12
Summary of DPT Groundwater Sample Results
Area 21

N

HFFGP012

Parameter	Result	Units
Benzoic acid	11	UG/L



HFFGP006

Parameter	Result	Units
bis(2-Ethylhexyl)phthalate	6	UG/L

HFFGP001

Parameter	Result	Units
Methylene chloride	3	UG/L

HFFGP013

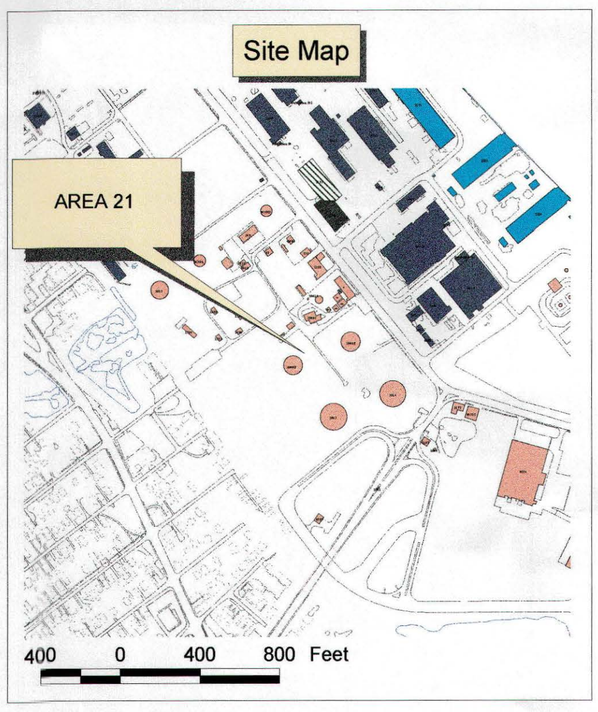
Parameter	Result	Units
bis(2-Ethylhexyl)phthate	6	UG/L

HFFGP010

Parameter	Result	Units
1,2-Dichloroethene (total)	21	UG/L
Methylene chloride	1.96	UG/L

HFFGP011

Parameter	Result	Units
Acetone	2	UG/L



200 0 200 400 Feet

Figure 4-12
Summary of DPT Groundwater Sample Results
Area 21

Legend

Fuel Line
Sludge Line
Zone E
Zone F
Zone G
Demolished
New

RBCA -- Risk-Based Corrective Action
RBSL -- Risk-Based Screening Level
UG/L -- Micrograms per liter
8' -- Groundwater Elevation, contour interval 1 ft.
Water Level Date -- 13 March 01
-- Detections with no RBSL exceedances
-- DPT Soil Sampling Point
-- DPT Groundwater Sampling Point
-- DPT Soil/Groundwater Sampling Point
-- Groundwater Vertical Profiling Point
BLACK TEXT -- Non-RBCA-listed Parameter

Only detected parameters are presented

Indeno(1,2,3-cd)pyrene exceeded the RBC at locations HFFSP004, HFFSP006, and HFFSP007. These exceedances were also greater than the PAH background concentrations generated for CNC by CH2M HILL (CH2M HILL, 2000). These locations, selected to screen for potential petroleum and non-petroleum contamination, are inside the containment berms for Tanks 3900E and 3900F which incorporate an asphalt berm liner. Because both non-petroleum and RBCA-listed constituents were detected, the potential source is difficult to ascertain. However, the degraded asphalt berm liner could very likely be the source of these constituents. The absence of these parameters in subsurface soil supports the probability of the asphalt as the source, with very limited leaching to subsurface soil or groundwater.

The VOCs detected in groundwater were 1-2,dichloroethene (total) at HFFGP010 and methylene chloride at HFFGP001. The SVOCs detected were benzoic acid and bis(2-ethylhexyl)phthalate. The concentration of 1-2,dichloroethene detected at HFFGP010, 21 μg/L, exceeded the Maximum Contaminant Level (MCL) of 5 μg/L and the tap-water RBC of 5.5 μg/L. During the second sampling of temporary wellpoint HFFGP010, no 1-2,dichloroethene (total) was detected. The estimated concentrations of bis(2-ethylhexyl)phthalate were reported as equal to the MCL of 6 μg/L and exceeding the Region III tap-water RBC of 4.8 μg/L. The compounds 1-2,dichloroethene (total) and bis(2-ethylhexyl)phthalate have never been detected in Area 8 monitoring wells downgradient of Area 21.

Because of the 1-2,dichloroethene (total) exceedance at temporary well point HFFGP010, the Project Team decided to conduct vertical profiling of groundwater VOCs at select locations upgradient and downgradient of this point. Table 4.14 presents the vertical profiling samples collected, which are also shown on Figure 4-9.

Vertical profiling samples were collected at 5-foot intervals, as indicated by the sample identification suffix. Missing intervals reflect an inadequate sample volume during purging due to subsurface conditions. These groundwater samples were analyzed for TCL VOCs, which

Table 4.14
Groundwater Vertical Profiling
Area 21

Location	Sample Identifier	Date Sampled	Profile Interval
HFFGP010	HFFGP01015	02/23/01	15 ft bgs
	HFFGP01025	"	25 ft bgs
	HFFGP01030	"	30 ft bgs
HFFGP011	HFFGP01115	02/23/01	15 ft bgs
	HFFGP01120	"	20 ft bgs
	HFFGP01125	"	25 ft bgs
	HFFGP01130	"	30 ft bgs
HFFGP014	HFFGP01405	02/21/01	5 ft bgs
	HFFGP01410	"	10 ft bgs
	HFFGP01415	"	15 ft bgs
	HFFGP01425	"	25 ft bgs
	HFFGP01430	"	30 ft bgs
HFFGP015	HFFGP01505	02/23/01	5 ft bgs
	HFFGP01515	"	15 ft bgs
	HFFGP01520	"	25 ft bgs
	HFFGP01530	"	30 ft bgs
HFFGP016	HFFGP01605	02/21/01	5 ft bgs
	HFFGP01610	"	10 ft bgs
	HFFGP01625	"	25 ft bgs
	HFFGP01630	"	30 ft bgs

Note: Samples were analyzed for TCL VOCs.

includes the RBCA-listed VOCs. Table 4.15 summarizes of the analytical results of this sampling. Two RBCA-listed VOCs, ethylbenzene and toluene, were detected below their respective RBSLs. Three non-RBCA-listed VOCs — bromodichloromethane, chloroform, and dibromochloromethane — were detected at concentrations exceeding their tap-water RBCs, but below their common MCL of 80 μg/L. Only chloroform was detected at one location in area soil samples below its SSL. Furthermore, these compounds have not been detected in groundwater monitoring wells downgradient of the site. Figure 4-13 details the vertical profiling results at Area 21. A data assessment of the vertical groundwater profiling results is presented in Appendix B.

Table 4.15
Groundwater Vertical Profiling Results
Area 21

Parameters	Sample	Concentration	RBSL	Tap Water RBC	MCL	
						1
Volatile Organic Compounds (μg/L)						2
Acetone	HFFGP01015	3.05J	NL	61	NL	3
	HFFGP01025	3.37J				
	HFFGP01030	3.64J				
	HFFGP01115	2.06J				
	HFFGP01120	3.84J				
	HFFGP01125	2.38J				
	HFFGP01130	3.07J				
	HFFGP01405	4.36J				
	HFFGP01410	3.67J				
	HFFGP01415	3.57J				
	HFFGP01425	2.89J				
	HFFGP01430	3.03J				
	HFFGP01505	4.34J				
	HFFGP01515	3.57J				
	HFFGP01520	3.18J				
	HFFGP01530	2.94J				
	HFFGP01605	1.92J				
	HFFGP01630	1.62J				
Benzene	HFFGP01530	0.17J	5	0.36	5	4
Bromodichloromethane	HFFGP01115	0.965J	NL	0.17	80	5
	HFFGP01120	0.323J				
	HFFGP01125	0.555J				
	HFFGP01405	0.904J				
	HFFGP01410	0.818J				
	HFFGP01415	0.358J				
	HFFGP01505	0.157J				
	HFFGP01520	0.496J				
	HFFGP01530	1.17				
	HFFGP01605	0.411J				
	HFFGP01610	0.304J				
	HFFGP01625	4.3				
	HFFGP01630	5.85				
Bromoform	HFFGP01115	1.04J	NL	8.5	80	6
	HFFGP01125	0.511J				
	HFFGP01405	0.94J				
	HFFGP01410	0.609J				
	HFFGP01530	1.18				
	HFFGP01625	4.58				
	HFFGP01630	6.97				
Chlorobenzene	HFFGP01605	0.346J	NL	11	NL	7

Table 4.15
Groundwater Vertical Profiling Results
Area 21

Parameters	Sample	Concentration	RBSL	Tap Water RBC	MCL	
Volatile Organic Compounds (μg/L)						
Chloroform	HFFGP01015	0.329J	NL	0.15	80	1
	HFFGP01025	0.221J				
	HFFGP01030	0.215J				
	HFFGP01115	0.581J				
	HFFGP01120	0.386J				
	HFFGP01125	0.447J				
	HFFGP01130	0.343J				
	HFFGP01405	0.673J				
	HFFGP01410	0.646J				
	HFFGP01415	0.446J				
	HFFGP01425	0.329J				
	HFFGP01430	0.307J				
	HFFGP01505	0.462J				
	HFFGP01515	0.455J				
	HFFGP01520	0.579J				
	HFFGP01530	0.791J				
	HFFGP01605	0.204J				
	HFFGP01625	2.02				
	HFFGP01630	2.62				
Dibromochloromethane	HFFGP01115	1.98	NL	0.13	80	2
	HFFGP01120	0.631J				
	HFFGP01125	1.07				
	HFFGP01405	1.69				
	HFFGP01410	1.44				
	HFFGP01415	0.723J				
	HFFGP01520	0.741J				
	HFFGP01530	2.14				
	HFFGP01605	0.714J				
	HFFGP01610	0.642J				
	HFFGP01625	8.64				
	HFFGP01630	11.6				
Ethylbenzene	HFFGP01025	0.216J	700	130	700	3
	HFFGP01030	0.22J				
	HFFGP01125	0.637J				
	HFFGP01130	0.226J				
	HFFGP01425	0.207J				
	HFFGP01430	0.279J				
	HFFGP01520	0.282J				
	HFFGP01530	0.208J				
	HFFGP01625	0.221J				
	HFFGP01630	0.262J				

Table 4.15
Groundwater Vertical Profiling Results
Area 21

Parameters	Sample	Concentration	RBSL	Tap Water RBC	MCL
Volatile Organic Compounds (μg/L)					
Methylene chloride	HFFGP01025	0.633J	NL	4.1	5
	HFFGP01405	1.51J			
	HFFGP01410	0.831J			
	HFFGP01415	1.02J			
	HFFGP01425	0.674J			
	HFFGP01430	1.37J			
	HFFGP01605	0.822J			
	HFFGP01625	0.729J			
	HFFGP01630	0.903J			
Toluene	HFFGP01015	0.244J	1,000	75	1,000
	HFFGP01025	0.377J			
	HFFGP01030	0.313J			
	HFFGP01115	0.325J			
	HFFGP01125	0.406J			
	HFFGP01130	0.317J			
	HFFGP01425	0.226J			
	HFFGP01430	0.289J			
	HFFGP01520	0.267J			
	HFFGP01530	0.594J			
	HFFGP01625	0.277J			
	HFFGP01630	0.297J			

Notes:
NL = Not listed.
RBSL = Risk-based Screening Level from the *South Carolina Risk-Based Corrective Action for Petroleum Releases* (SCDHEC, January 5, 1998).
RBC = USEPA Region III Tap Water Risk-Based Concentration (THQ=0.1).
MCL = USEPA Maximum Contaminant Level.
J = Estimated value.
μg/L = Micrograms per liter.

Figure 4-13
Summary of Groundwater Vertical Profiling Results
Area 21

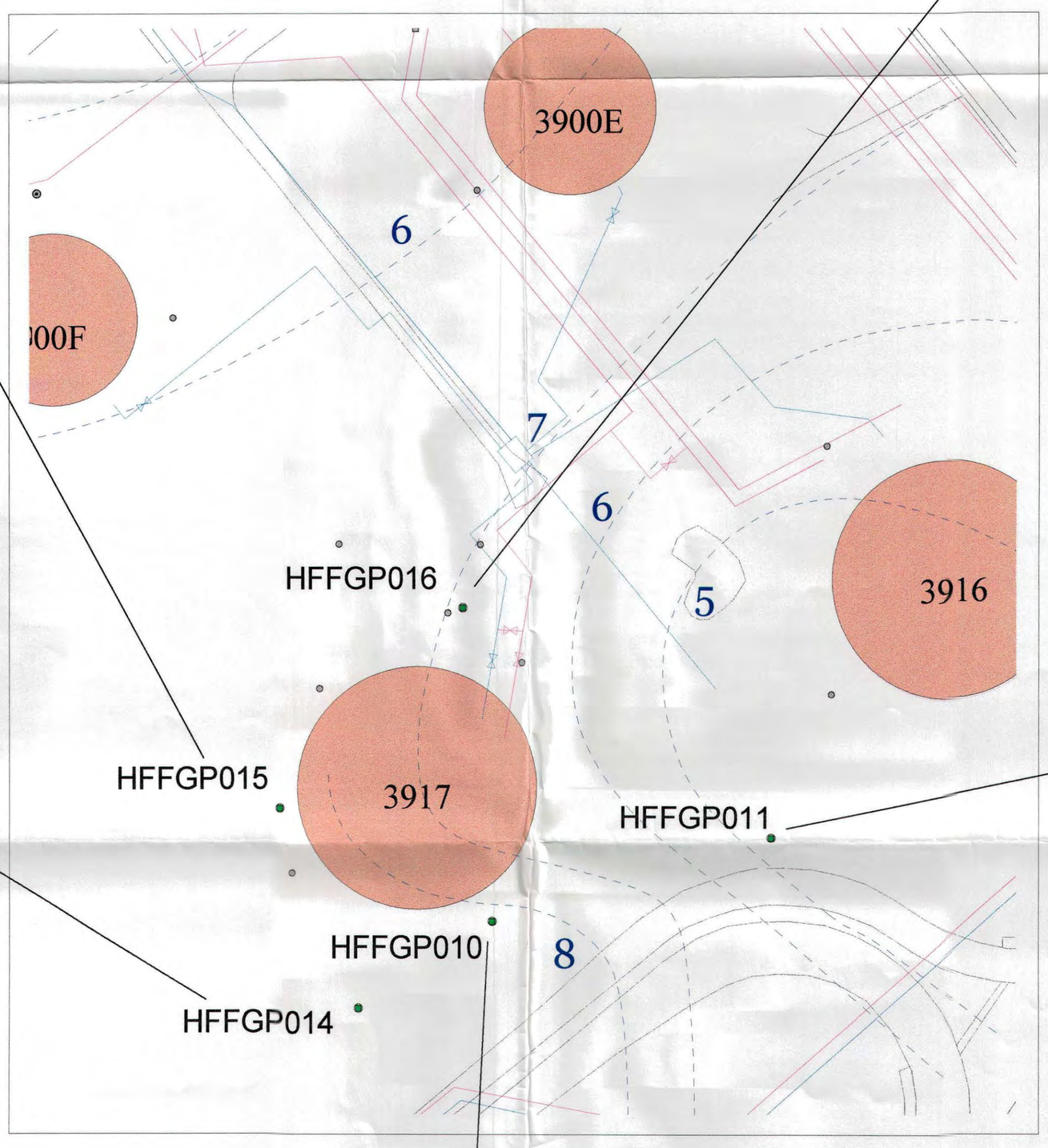
N

HFFGP015

Parameter	Result	Units
5-Foot Interval		
Bromodichloromethane	0.157	UG/L
20-Foot Interval		
Ethylbenzene	0.282	UG/L
Toluene	0.267	UG/L
Bromodichloromethane	0.496	UG/L
Dibromochloromethane	0.741	UG/L
30-Foot Interval		
Benzene	0.17	UG/L
Ethylbenzene	0.208	UG/L
Toluene	0.594	UG/L
Bromodichloromethane	1.17	UG/L
Bromoform	1.18	UG/L
Dibromochloromethane	2.14	UG/L

HFFGP016

Parameter	Result	Units
5-Foot Interval		
Acetone	1.92	UG/L
Bromodichloromethane	0.411	UG/L
Chlorobenzene	0.346	UG/L
Chloroform	0.204	UG/L
Dibromochloromethane	0.714	UG/L
10-Foot Interval		
Bromodichloromethane	0.304	UG/L
Dibromochloromethane	0.642	UG/L
25-Foot Interval		
Ethylbenzene	0.221	UG/L
Toluene	0.277	UG/L
Bromodichloromethane	4.3	UG/L
Bromoform	4.58	UG/L
Chloroform	2.02	UG/L
Dibromochloromethane	8.64	UG/L
30-Foot Interval		
Ethylbenzene	0.262	UG/L
Toluene	0.297	UG/L
Acetone	1.62	UG/L
Bromodichloromethane	5.85	UG/L
Bromoform	6.97	UG/L
Chloroform	2.62	UG/L
Dibromochloromethane	11.6	UG/L



HFFGP014

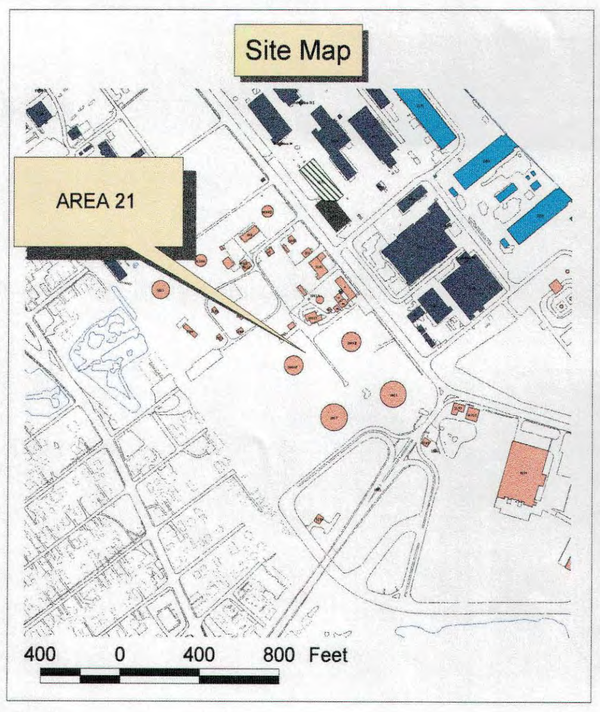
Parameter	Result	Units
5-Foot Interval		
Acetone	4.36	UG/L
Bromodichloromethane	0.904	UG/L
Bromoform	0.94	UG/L
Chloroform	0.673	UG/L
Dibromochloromethane	1.69	UG/L
10-Foot Interval		
Acetone	3.67	UG/L
Bromodichloromethane	0.818	UG/L
Bromoform	0.609	UG/L
Chloroform	0.646	UG/L
Dibromochloromethane	1.44	UG/L
15-Foot Interval		
Acetone	3.57	UG/L
Bromodichloromethane	0.358	UG/L
Chloroform	0.446	UG/L
Dibromochloromethane	0.723	UG/L
25-Foot Interval		
Ethylbenzene	0.207	UG/L
Toluene	0.226	UG/L
Acetone	2.89	UG/L
Chloroform	0.329	UG/L
30-Foot Interval		
Ethylbenzene	0.279	UG/L
Toluene	0.289	UG/L
Acetone	3.03	UG/L
Chloroform	0.307	UG/L

HFFGP011

Parameter	Result	Units
15-Foot Interval		
Toluene	0.325	UG/L
Bromodichloromethane	0.965	UG/L
Bromoform	1.04	UG/L
Dibromochloromethane	1.98	UG/L
20-Foot Interval		
Bromodichloromethane	0.323	UG/L
Dibromochloromethane	0.631	UG/L
25-Foot Interval		
Ethylbenzene	0.637	UG/L
Toluene	0.406	UG/L
Bromodichloromethane	0.555	UG/L
Bromoform	0.511	UG/L
Dibromochloromethane	1.07	UG/L
30-Foot Interval		
Ethylbenzene	0.226	UG/L
Toluene	0.317	UG/L

HFFGP010

Parameter	Result	Units
15-Foot Interval		
Toluene	0.244	UG/L
25-Foot Interval		
Ethylbenzene	0.216	UG/L
Toluene	0.377	UG/L
Methylene chloride	0.633	UG/L
30-Foot Interval		
Ethylbenzene	0.22	UG/L
Toluene	0.313	UG/L



100 0 100 200 300 400 Feet

Figure 4-13
Summary of Groundwater Vertical Profiling Results
Area 21

Legend

Fuel Line
Sludge Line
Zone E
Zone F
Zone G
Demolished
New

RBCA-listed Groundwater Parameters:

Parameter*	RBSL**	UNITS
Ethylbenzene	700	UG/L
Toluene	1,000	UG/L

* Only detected parameters are presented
** RBSL for groundwater

RBCA -- Risk-Based Corrective Action.
RBSL -- Risk-Based Screening Level.
UG/L -- Micrograms per liter
8' -- Groundwater Elevation, contour interval 1 ft.
Water Level Date -- 13 March 01
-- Detections with no RBSL exceedances
-- DPT Soil Sampling Point
-- DPT Groundwater Sampling Point
-- DPT Soil/Groundwater Sampling Point
-- Groundwater Vertical Profiling Point

RED TEXT -- RBCA-listed Parameter
BLACK TEXT -- Non-RBCA-listed Parameter

4.4 Reutilization Issues

The environmental condition of Areas 19, 20, and 21 as discussed throughout this section, will warrant consideration prior to any construction in the area. New construction will impact surrounding sites with identified soil and/or groundwater contamination, some of which are undergoing continued investigation or remediation. Figure 4-14 presents the location of the proposed warehouse along with the sites identified as having environmental concerns. A brief summary of the current status and actions at these sites is presented below.

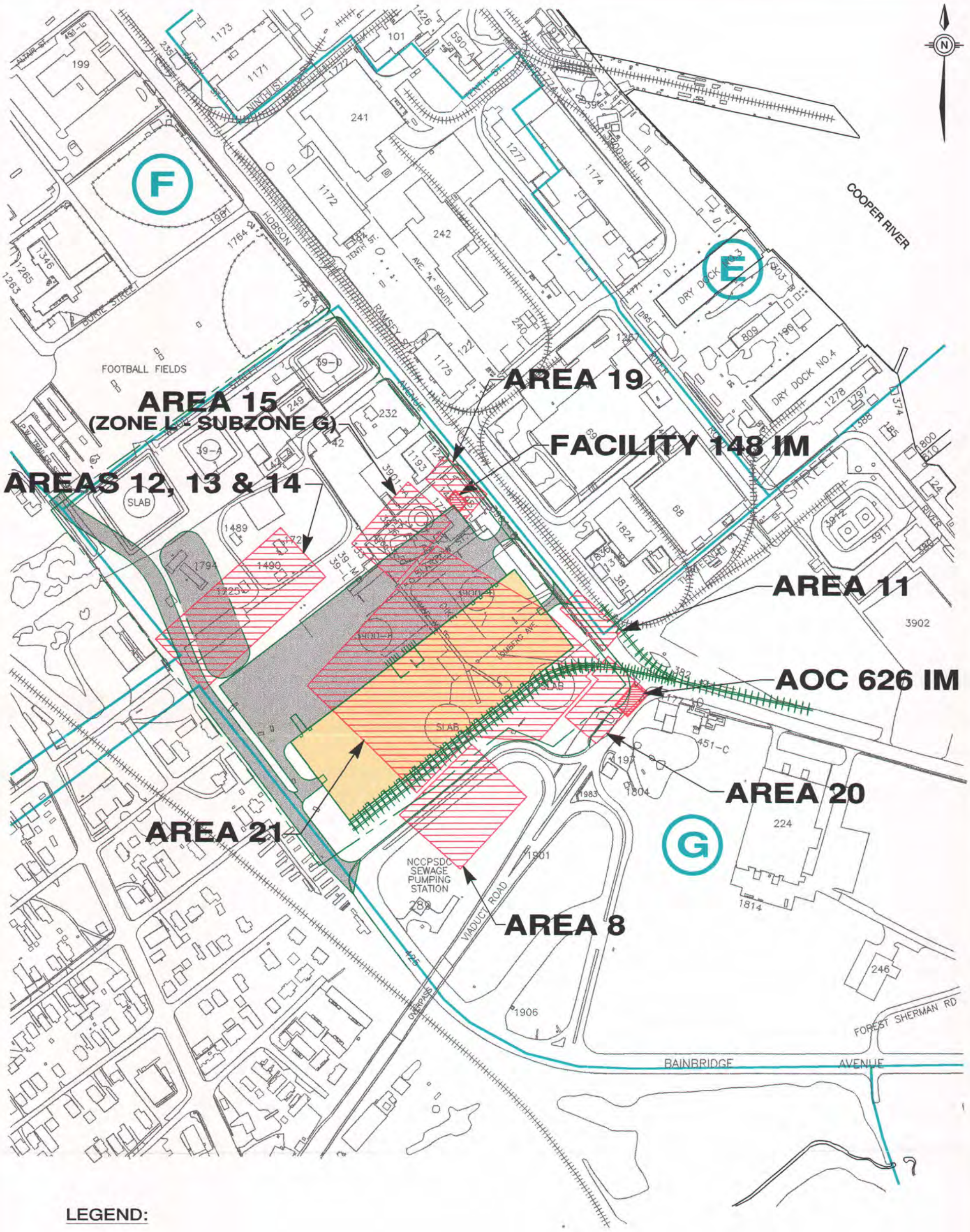
Areas 19, 20, and 21 are currently zoned for industrial use, and will eventually be razed to facilitate future industrial uses at CNC. Current plans call for removing Tanks 3916 and 3917 at Areas 20 and 21 and building a 250,000-square-foot warehouse over the area. In such a scenario, the footprint of the building and adjacent paved areas will likely cover petroleum-contaminated soil discovered near Tanks 3916 and 3917. This would prevent infiltration of precipitation at the site and help mitigate the potential for further leaching of parameters to underlying shallow groundwater. Should future expansion of the warehouse complex or other construction extend across Areas 19 and 21, the same effect should occur.

Zone L, Subzone G included areas adjacent to Areas 21 and south of Area 19. Samples in this area had surface soil PAH concentrations exceeding the RBSLs. Other RCRA constituents were detected in soil and groundwater exceeding their respective screening criteria. These locations should be considered when determining remedial alternatives for Zone G.

Due to subsurface soil exceedances of PAHs at Area 8, south of Area 21, additional groundwater monitoring was recommended. This follow-on effort was reported to SCDHEC in a Letter Report (EnSafe, October, 1999) which recommended that wells FDS08A and FDS08D be monitored during two quarterly sampling events to ensure that subsurface soil constituents were not adversely impacting groundwater. These sampling results may be used to support a no-further-action decision for soil and groundwater at Area 8. These data were not available during preparation of this report. Non-RBCA-listed metals (aluminum, antimony, manganese, and thallium) were detected in groundwater at Area 8 exceeding their respective screening criteria.

Area 11 is located north of Area 20. Because no RBCA-listed groundwater parameters exceeded appropriate RBSLs in either of the two sampling events at Area 11, the FDS CAR (EnSafe, September 10, 1998) recommended, and SCDHEC Petroleum Program personnel concurred, no further action for this area. Non-RBCA-listed parameters antimony and manganese were detected in site groundwater exceeding their respective screening criteria.

Areas 12, 13, and 14 are located west of Area 21. To support the FDS CAR (EnSafe, September 10, 1998) recommendation of intrinsic remediation for the total naphthalenes exceedance detected in site soil, the follow-on Letter Report for these areas (EnSafe, June 30, 1999) recommended limited monitoring of site groundwater. These data were not available during preparation of this report. Non-RBCA-listed parameters antimony, manganese and thallium were detected in site groundwater samples exceeding their respective screening criteria.



LEGEND:

- FDS CONTAMINATION ASSESSMENT REPORT (ENSAFE)
- BUILDING - PROPOSED REUTILIZATION
- PAVEMENT - PROPOSED REUTILIZATION
- RAILROAD - PROPOSED REUTILIZATION

0 300 600 900

SCALE IN FEET

FUEL DISTRIBUTION SYSTEM
CONTAMINATION ASSESSMENT
REPORT ADDENDUM
CHARLESTON NAVAL COMPLEX
CHARLESTON, SC

FIGURE 4-14
MAP OF
REUTILIZATION ISSUES

Date: 03/06/01 | DWG Name: 0144C008

Area 15 is directly west and hydraulically downgradient of Area 19. Due to the absence of RBCA-listed parameters in surface and subsurface soil and groundwater at Area 15, EnSafe's follow-on Letter Report (EnSafe, January 27, 2000) recommended, and SCDHEC Petroleum Program personnel concurred, that no further action for soil or groundwater was needed at this area. Non-RBCA-listed parameters antimony, manganese and thallium were detected in site groundwater samples exceeding their respective screening criteria.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

Area 19

A review of analytical results from the Area 19 DPT soil data reveals that benzene, ethylbenzene, and naphthalenes are subsurface soil concerns at Area 19. These RBCA parameters were detected along the southwest side of Building 98 near the source area. Some exceedances at Area 19 (F19SP020 and F19SP023) appear to be related to the fuel pipeline which parallels the building along Hobson Avenue. Area 19 DPT groundwater analytical results reveal that groundwater beneath Building 98 has been impacted by petroleum constituents, primarily in the same area of impacted soil adjacent to the southwest side of Building 98. The analytes detected in soil above the groundwater protection RBSLs are the likely source of groundwater contamination. The soil and groundwater exceedances along Hobson Avenue apparently are related to the petroleum pipeline that parallels Area 19. The areas of contaminated soil and groundwater at the site are delineated by locations where parameters either were detected below their applicable RBSLs or were not detected. Groundwater analytical data from the Area 19 monitoring wells exhibited no RBSL exceedances. Groundwater contamination at Building 98 appears to be localized to the vicinity of the building and is considered delineated.

Area 20

A review of analytical results from the Area 20 DPT soil data reveals that benzene, naphthalene, and total naphthalenes are subsurface soil concerns at Area 20. These RBCA soil parameters are adjacent to the footprint of the pipeline IM and northwest of the excavated area along the fuel pipeline corridor which parallels Hobson Avenue. The petroleum-contaminated soil northwest of the removal area is the likely source of groundwater contamination at this locale. The contaminated areas are delineated by adjacent sample locations where parameters either were detected below their applicable RBSLs or were not detected.

Area 20 DPT groundwater results reveal that total PAHs and other PAH constituents also exceeded their respective RBSLs at sample locations near the pipeline removal area and to the northwest along Hobson Avenue. Groundwater analytical data from the Area 20 monitoring wells showed no RBSL exceedances. Groundwater contamination at Area 20 appears to be localized and is considered delineated.

Area 21

The Area 21 investigation was performed to gain a comprehensive understanding of current soil and groundwater conditions to facilitate property transfer and subsequent development. As a result, the potentially problematic areas near the anticipated construction area, Tanks 3916 and 3917, were the primary focus of delineation sampling. In this area, surface soil exhibited no petroleum- related or RCRA constituents that might be a concern. Soil around Tanks 3900E and 3900F appears to have been impacted by petroleum and RCRA constituents. Non-RBCA parameters that exceed RCRA RBCs are most likely related to the asphalt that lines the bermed area and not unidentified sources. Subsurface soil exceedances are only a potential concern at location HFFSP008, where petroleum-related SVOCs were detected at concentrations that may leach to shallow groundwater. This area is a single-point exceedance that has been fully delineated.

Shallow groundwater in the area has been impacted by RCRA and petroleum constituents. Areas of limited petroleum impact are present at F20GP044 and F20GP037, which are within the area of interest. Near Tank 3900F, non-RBCA-listed VOCs were detected in shallow groundwater at estimated concentrations. Though the non-RBCA chlorinated solvent, 1,2-dichloroethene (total) was detected at temporary well point HFFGP010, a second sampling event revealed no 1,2-dichloroethene (total).

5.2 Reutilization Issues

Areas 19, 20, and 21 are currently zoned for industrial use and will eventually be razed to facilitate future industrial uses at CNC. Current plans call for removing Tanks 3916 and 3917 at Area 20 and 21 and building a 250,000- square-foot warehouse over the area. In such a scenario, the footprint of the building and adjacent paved areas will likely cover petroleum-contaminated soil discovered near Tanks 3916 and 3917. This would prevent infiltration of precipitation at the site and help mitigate the potential for further leaching of parameters to underlying shallow groundwater. Should future expansion of the warehouse complex or other construction extend across Areas 19 and 21, the same effect should occur. Several surrounding sites have been identified with known soil and/or groundwater contamination. Many of these sites are undergoing further investigation or remediation, and their status affects reutilization decisions for the Hobson Fuel Farm area.

5.3 Recommendations

Because contamination is characterized and defined at Areas 19, 20, and 21, no further investigation is recommended at these sites. At Area 19, contaminated soil surrounding former Facility 148 (between Buildings 98 and 172) and near the southeast corner of Building 98 was identified in the subsurface. Excavation of the contaminated soil to remove the source areas is recommended followed by groundwater monitoring of existing site wells and two new wells installed in the source areas to monitor attenuation.

Isolated areas of contaminated soil were identified at Area 20. Monitored attenuation of the soil groundwater at Area 20 is recommended using the existing monitoring wells based on the isolated areas of soil and groundwater contamination. One area of contamination near borings F20SP01906 and F20SP01709 falls in the path of the proposed rail spur to the warehouse. This contamination is subsurface and is partially covered by asphalt under Viaduct Road reducing the potential of leaching to groundwater. If contaminated soil is impacted by the railroad construction, it will be

removed and properly disposed offsite. If future construction requires the abandonment of pertinent monitoring wells, these may have to be replaced based on the overall monitoring program.

At Area 21, one isolated location of subsurface soil contamination was identified and delineated near Tank 3917. Groundwater at this location did not reveal any exceedances of petroleum-related compounds. The proposed warehouse will cover this area and mitigate further potential leaching of contaminants to groundwater. As a result, land use controls are recommended utilizing the proposed new development. Because the potential for contaminants leaching to groundwater currently exist, attenuation monitoring is also recommended using existing wells from Areas 8 and 20.

6.0 REFERENCES

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Appendix A

Lithologic Logs/Monitoring Well As-Built Diagrams

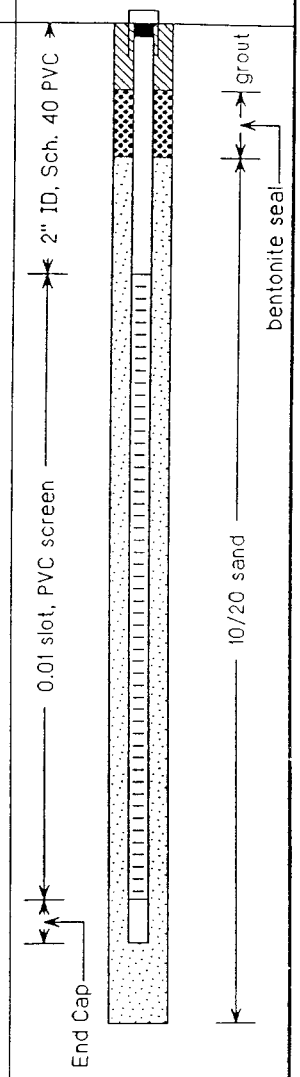
ENSAFE

Monitoring Well FDS-19A

Project: *FDS, CNSY*	Coordinates: *2319558.76 E, 373045.21 N*
Location: *Charleston, SC*	Surface Elevation: *9.7 feet msl*
Started at *1230 on 11-18-99*	TOC Elevation: *9.48 feet msl*
Completed at *1600 on 11-18-99*	Depth to Groundwater: *6.27 feet TOC* Measured: *11/22/99*
Drilling Method: *HSA*	Groundwater Elevation: *3.21 feet msl*
Drilling Company: *Miller Drilling SC Cert #1532*	Total Depth: *15.0 feet*
Geologist: *D. Doyle*	Well Screen: *3.75 to 13.15 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	OVA (ppm)	% RECOVERY	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
								Asphalt	
								Gravel Fill	8.7
								Red, med. Clayey Sand, med. dense, moist.	
			1	0	50			Gray to tan Sand, Silt and Clay, med. stiff, moist.	
5			2	1000	50			Same as above but strong petroleum odor and very moist.	
			3	2072	50		SC		
			4	2164	50				
10								Blueish gray, Clayey medium Sand, loose, very moist.	
			5	395	50			Blueish gray, Clayey fine Sand, loose, saturated.	
			6	795	75				3.3
15								Boring Total Depth - 15.0 feet	
20									

WELL DIAGRAM



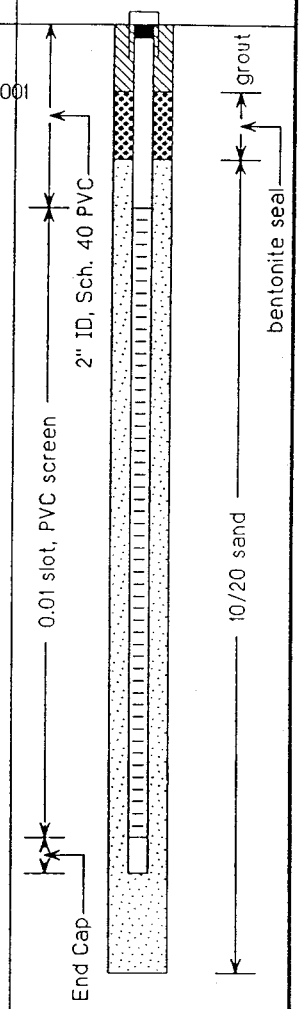
ENSAFE

Monitoring Well FDS-19B

Project: *FDS, CNSY*	Coordinates: *231958.23 E, 373090.78 N*
Location: *Charleston, SC*	Surface Elevation: *9.9 feet msl*
Started at *1600 on 11-19-99*	TOC Elevation: *9.66 feet msl*
Completed at *1800 on 11-19-99*	Depth to Groundwater: *7.56 feet TOC* Measured: *11/22/99*
Drilling Method: *HSA*	Groundwater Elevation: *2.10 feet msl*
Drilling Company: *Miller Drilling SC Cert #1532*	Total Depth: *14.2 feet*
Geologist: *D. Doyle*	Well Screen: *2.73 to 12.17 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	OVA (ppm)	% RECOVERY	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
								Asphalt	
								Tan, fine Sand fill, dense, moist, wood at 4.0.	8.900001
			1	0	50		SW		
5			2	0	50				
								Black, Silty Sand, loose, saturated.	4.5
								Dark gray, Clayey fine Sand, loose, saturated.	
			3	1468	50			Gray mottled to brown, Silt, Clay and fine Sand, med. stiff, saturated.	
			4	1684	50		SC		
10			5	NA	0				
			6	88	75				2.1
								Boring Total Depth - 14.2 feet	
15									
20									

WELL DIAGRAM



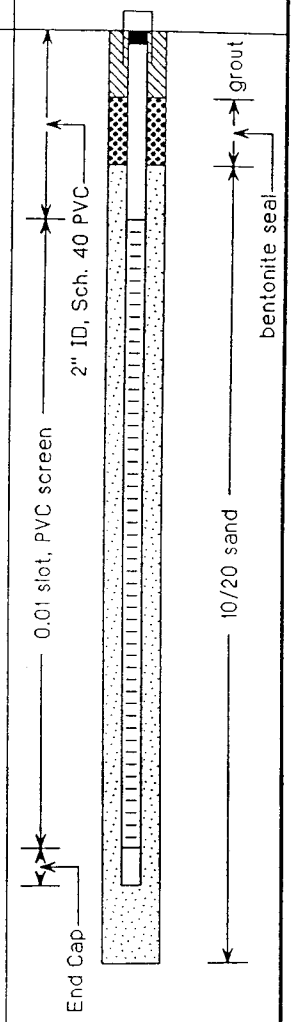
ENSAFE

Monitoring Well FDS-19C

Project: *FDS, CNSY*	Coordinates: *2319522.08 E, 373168.52 N*
Location: *Charleston, SC*	Surface Elevation: *9.8 feet msl*
Started at *1545 on 11-19-99*	TOC Elevation: *9.59 feet msl*
Completed at *1745 on 11-19-99*	Depth to Groundwater: *8.55 feet TOC* Measured: *11/22/99*
Drilling Method: *HSA*	Groundwater Elevation: *1.04 feet msl*
Drilling Company: *Miller Drilling SC Cert #1532*	Total Depth: *14.0 feet*
Geologist: *D. Doyle*	Well Screen: *2.83 to 12.27 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	OVA (ppm)	% RECOVERY	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
								Asphalt.	8.8
			1	30	0		SW	Brown, fine Sand fill, loose, moist.	5.1
5			2	50	530		SC	Tan-gray, fine Sand, med. dense, very moist.	2.8
			3	15	17		CL	Gray and yellow brown, Sandy Clay, stiff, saturated.	.3
			4	37	0				
10			5	75	0		ML	Gray and yellow brown, Silt with Clay and very fine Sand, stiff, saturated.	-2.2
			6	75	0				
								Boring Total Depth - 14.0 feet	
15									
20									

WELL DIAGRAM



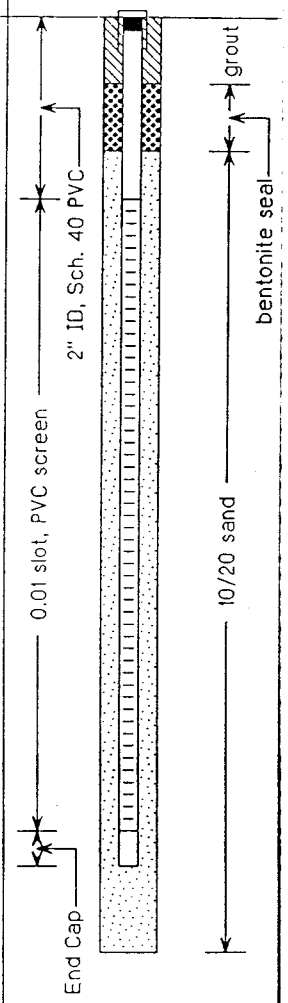
ENSAFE

Monitoring Well FDS-19D

Project: *FDS, CNSY*	Coordinates: *2319470.63 E, 373231.95 N*
Location: *Charleston, SC*	Surface Elevation: *9.8 feet msl*
Started at *1330 on 11-19-99*	TOC Elevation: *9.58 feet msl*
Completed at *1530 on 11-19-99*	Depth to Groundwater: *6.26 feet TOC* Measured: *11/22/99*
Drilling Method: *HSA*	Groundwater Elevation: *3.32 feet msl*
Drilling Company: *Miller Drilling SC Cert #1532*	Total Depth: *15.0 feet*
Geologist: *D. Doyle*	Well Screen: *2.73 to 12.18 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	OVA (ppm)	% RECOVERY	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
								Brown, Silt and Sand, loose, moist.	
								Tan, fine Sand fill, loose, moist.	8.8
								3.0 - 4.8 very moist.	
			1	0	75		SW		
5			2	0	75			Brown-gray, Clayey fine Sand, med. dense, very moist.	5
								At 8.0 it becomes saturated.	
			3	0	90				
			4	0	25		SC		
10			5	0	85				
			6	60	90				2.2
								Boring Total Depth - 14.0 feet	
15									
20									

WELL DIAGRAM



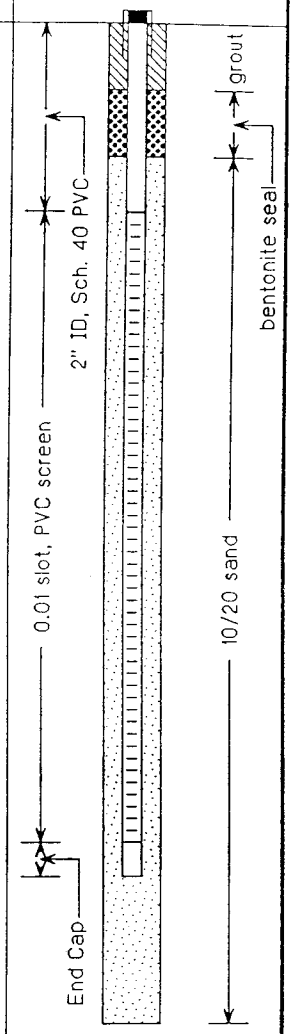
ENSAFE

Monitoring Well FDS-19E

Project: *FDS, CNSY*	Coordinates: *2319413.44 E, 373217.71 N*
Location: *Charleston, SC*	Surface Elevation: *9.6 feet msl*
Started at *1030 on 11-19-99*	TOC Elevation: *9.48 feet msl*
Completed at *1230 on 11-19-99*	Depth to Groundwater: *5.35 feet TOC* Measured: *5.35*
Drilling Method: *HSA*	Groundwater Elevation: *4.13 feet msl*
Drilling Company: *Miller Drilling SC Cert #1532*	Total Depth: *15.0 feet*
Geologist: *D. Doyle*	Well Screen: *2.83 to 12.28 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	OVA (ppm)	% RECOVERY	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
								0.0 - 0.5 Asphalt.	
								0.5 - 3.0 Gravel Fill.	
			1	25	0		CL	Gray, sandy Clay fill, soft, wet.	6.6
5			2	15	0		SW	Gray, med. Sand fill, soft, wet.	5.6
			3	15	2		SC SM	Gray, Clayey fine - med. Sand with some Silt, loose, saturated.	3.6
			4	50	40			Sand changed to very fine with depth.	
10			5	50	11				
			6	100	8				2.4
								Boring Total Depth - 14.0 feet	
15									
20									

WELL DIAGRAM



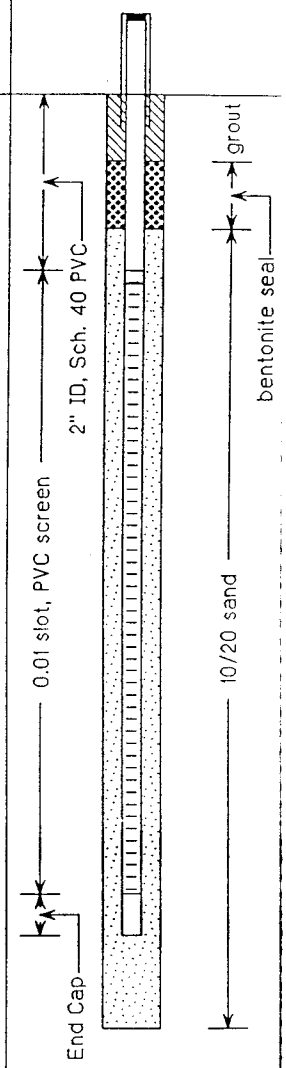
ENSAFE

Monitoring Well FDS-19F

Project: *FDS, CNSY*	Coordinates: *2319385.62 E, 373158.45 N*
Location: *Charleston, SC*	Surface Elevation: *10.4 feet msl*
Started at *0925 on 11-19-99*	TOC Elevation: *12.69 feet msl*
Completed at *1030 on 11-19-99*	Depth to Groundwater: *7.32 feet TOC* Measured:
Drilling Method: *HSA*	Groundwater Elevation: *5.37 feet msl*
Drilling Company: *Miller Drilling SC Cert #1532*	Total Depth: *14.0 feet*
Geologist: *D. Doyle*	Well Screen: *2.63 to 13.08 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	OVA (ppm)	% RECOVERY	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			1	3	75		SC SM	Dark gray and brown, med. Sand with Clay and Silt fill, loose, moist.	
			2	4	25				
5			3	35	25				5.4
			4	978	75		SM	Black, fine - med. Sand with Silt, loose, saturated, petroleum odor.	
			5	1484	100				
10			6	6304	75				
			7	4231	40				1.6
								Boring Total Depth - 14.0 feet	
15									
20									

WELL DIAGRAM



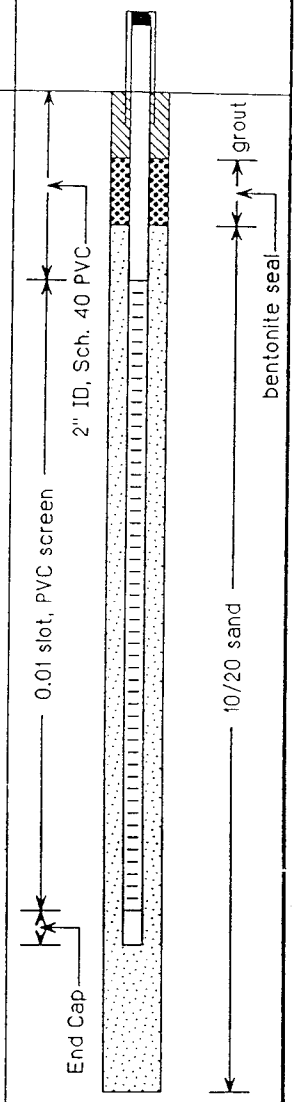
ENSAFE

Monitoring Well FDS-19G

Project: *FDS, CNSY*	Coordinates: *2319440.66 E, 373094.80 N*
Location: *Charleston, SC*	Surface Elevation: *10.1 feet msl*
Started at *0740 on 11-19-99*	TOC Elevation: *12.37 feet msl*
Completed at *0945 on 11-19-99*	Depth to Groundwater: *6.57 feet TOC* Measured: *11/21/99*
Drilling Method: *HSA*	Groundwater Elevation: *5.80 feet msl*
Drilling Company: *Miller Drilling SC Cert #1532*	Total Depth: *15.0 feet*
Geologist: *D. Doyle*	Well Screen: *2.84 to 12.28 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	OVA (ppm)	% RECOVERY	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
							SM	Brown, Silt and Sand fill, loose, moist.	
			1	0	50		OH	Dark gray Silt and Clay, med. stiff, moist.	7.3
5			2	0	40		SC	Yellow brown, Clayey med. Sand, med. dense, saturated.	6.3
			3	0	40				
			4	0	30				
10			5	0	25				
			6	0	25				
			7	2	100				3.9
15								Boring Total Depth - 15.0 feet	
20									

WELL DIAGRAM



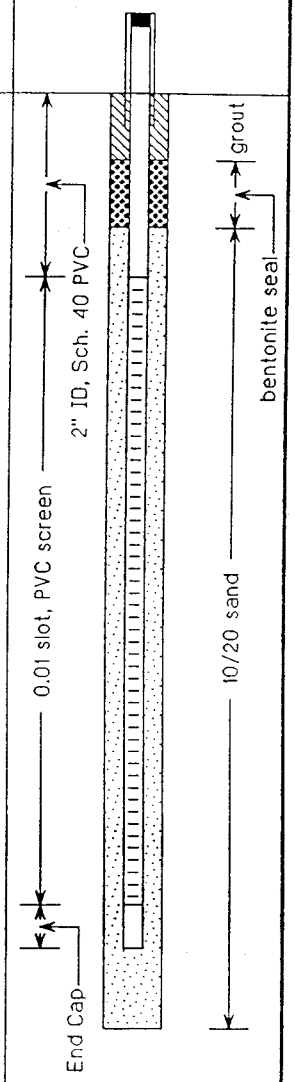
ENSAFE

Monitoring Well FDS-20A

Project: *FDS, CNSY*	Coordinates: *2319815.80 E, 372407.55 N*
Location: *Charleston, SC*	Surface Elevation: *7.1 feet msl*
Started at *0745 on 11-18-99*	TOC Elevation: *9.39 feet msl*
Completed at *0945 on 11-18-99*	Depth to Groundwater: *5.04 feet TOC* Measured: *11/22/99*
Drilling Method: *HSA*	Groundwater Elevation: *4.35 feet msl*
Drilling Company: *Miller Drilling SC Cert #1532*	Total Depth: *14.0 feet*
Geologist: *D. Doyle*	Well Screen: *2.75 to 12.15 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	OVA (ppm)	% RECOVERY	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			1	0	10			Tan-gray Silty med. Sand fill, loose to med. dense. 0-3 moist and saturated at 3.0. (3.0 - 3.9 had petroleum odor)	
			2	707	90			Black Silt, Clay, and med. Sand, med. dense, very moist.	
5			3	1500	50		SM	Brown to tan Silty Sand, med. dense, very moist.	
			4	4046	75			Dark gray Silty Sand, med. dense, very moist.	
			5	66	100			Gray Silty Sand, med. dense, saturated.	
10			6	1800	50			Black Silty and Clay, soft, saturated.	
			7	80	100				5.9
								Boring Total Depth - 14.0 feet	
15									
20									

WELL DIAGRAM



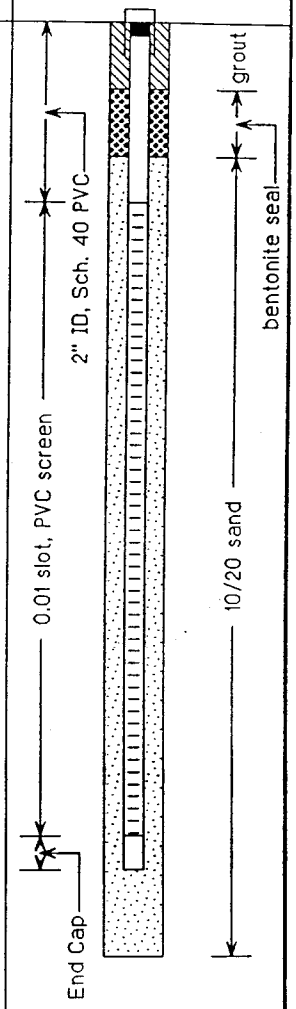
ENSAFE

Monitoring Well FDS-20B

Project: *FDS, CNSY*	Coordinates: *2319908.46 E, 372408.99 N*
Location: *Charleston, SC*	Surface Elevation: *6.0 feet msl*
Started at *0745 on 11-20-99*	TOC Elevation: *5.82 feet msl*
Completed at *0945 on 11-20-99*	Depth to Groundwater: *2.42 feet TOC* Measured: *12/01/99*
Drilling Method: *HSA*	Groundwater Elevation: *3.40 feet msl*
Drilling Company: *Miller Drilling SC Cert #1532*	Total Depth: *14.0 feet*
Geologist: *D. Doyle*	Well Screen: *2.7 to 12.2 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	OVA (ppm)	% RECOVERY	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
								Asphalt	
								Gravel (Fill)	5
			1	23	75		SW/SM	Gray fine Sand mixed with Silty fine Sand fill, with a trace of shell fragments, med. dense, moist.	
5			2	385	50				5
			3	185	85		SM	Black Silty med. Sand with trace of shell fragments, med. dense, saturated.	15
			4	23	100		CL/ML	Brown and gray, Silty Clay and Clayey Silt, med. stiff, saturated.	
10			5	80	50		OL	Black high organic Silt, soft, saturated.	4
			6	200	75				6
15								Boring Total Depth - 14.0 feet Note: Gas was blowing out of this boring while the augers were being pulled. FID would reach a max. of 100 ppm then drop to 0 ppm.	
20									

WELL DIAGRAM



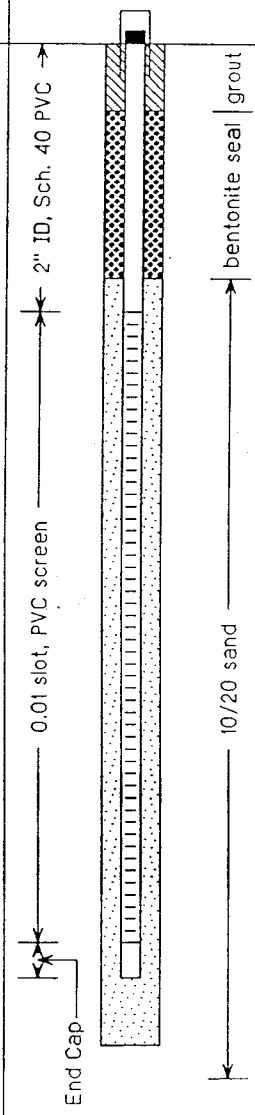
ENSAFE

Monitoring Well FDS-20C

Project: *FDS, CNSY*	Coordinates: *2320015.69 E, 372549.44 N*
Location: *Charleston, SC*	Surface Elevation: *6.3 feet msl*
Started at *0915 on 11-20-99*	TOC Elevation: *6.15 feet msl*
Completed at *1115 on 11-20-99*	Depth to Groundwater: *feet TOC* Measured:
Drilling Method: *HSA*	Groundwater Elevation: *feet msl*
Drilling Company: *Miller Drilling SC Cert #1532*	Total Depth: *15.5 feet*
Geologist: *D. Doyle*	Well Screen: *3.5 to 13.45 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	OVA (ppm)	% RECOVERY	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
								Asphalt	
									3.1
								Dark gray Silty med. Sand fill, med. dense, saturated.	
5			1	30	25		SM		
			2	298	50				
			3	72	80				
									2.7
								Black Silt and Clay, soft, saturated.	
10			4	56	35		OL		
									4.7
							ML	Dark gray to black, Silt and fine Sand, med. dense, saturated.	
			5	27	60				5.7
							CL	Dark gray Silty Clay with some very fine to fine Sand, med. stiff, slightly moist.	
			6	54	100				7.7
15									
								Boring Total Depth - 15.5 feet	
20									

WELL DIAGRAM



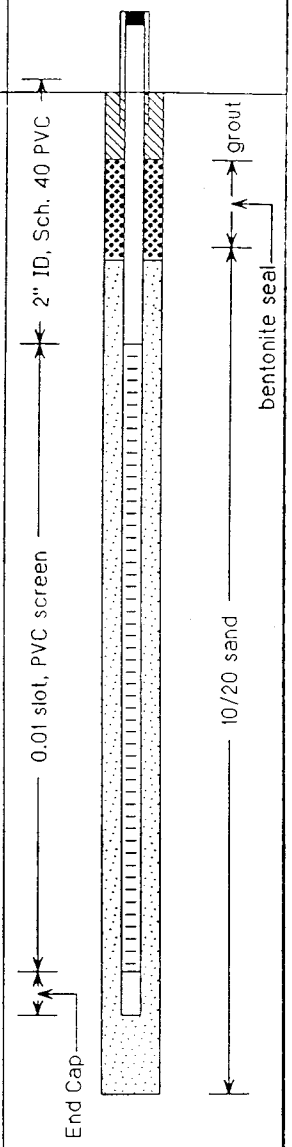
ENSAFE

Monitoring Well FDS-20D

Project: *FDS, CNSY*	Coordinates: *2319894.93 E, 37253167 N*
Location: *Charleston, SC*	Surface Elevation: *10.3 feet msl*
Started at *1010 on 11-18-99*	TOC Elevation: *13.00 feet msl*
Completed at *1200 on 11-18-99*	Depth to Groundwater: *12.28 feet TOC* Measured: *12/02/99*
Drilling Method: *HSA*	Groundwater Elevation: *0.20 feet msl*
Drilling Company: *Miller Drilling SC Cert #1532*	Total Depth: *15.0 feet*
Geologist: *D. Doyle*	Well Screen: *3.75 to 13.15 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	OVA (ppm)	% RECOVERY	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			1	0	40		SM/SC	Brown-gray, Silty Sand and Clay fill, med. stiff, moist.	
									7.8
							SM	Gray Silty med. Sand fill, loose, moist.	
			2	6652	65				6.3
5							SM/SC	Black med. Sand with Silt and Clay, med. dense, moist.	
			3	1080	50				4.3
							SM	Brown-gray Silty med. Sand, very moist, med. dense, very moist.	
									3.1
			4	5500	75		SC	Black Clay and med. Sand, med. dense, saturated.	
									2
								Gray med. Sand with Silt and Clay, dense, very moist.	
10			5	1192	50		SP	Light gray med. to coarse Sand, dense, saturated.	
								Reddish-brown med. to coarse Sand with some Clay, dense, saturated.	
			6	4545	75				1.7
			7	6029	50		SC	Light gray med. to coarse Sand, dense, saturated.	
									2.7
15								Boring Total Depth - 15.0 feet	
20									

WELL DIAGRAM



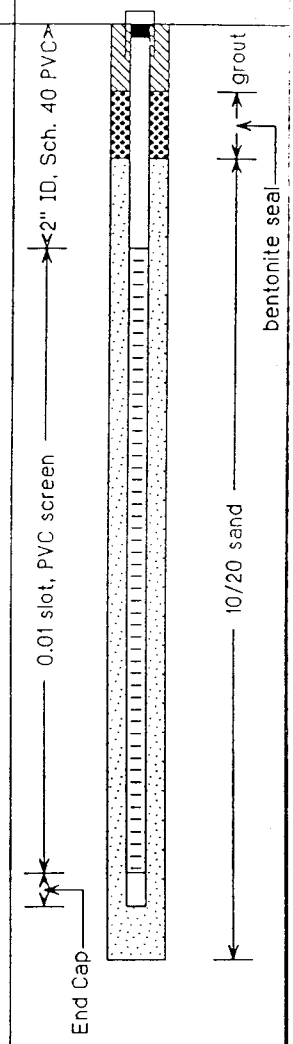
ENSAFE

Monitoring Well FDS-20E

Project: *FDS, CNSY*	Coordinates: *2319842.44 E, 372717.14 N*
Location: *Charleston, SC*	Surface Elevation: *8.6 feet msl*
Started at *1515 on 11-20-99*	TOC Elevation: *8.55 feet msl*
Completed at *1715 on 11-20-99*	Depth to Groundwater: *7.18 feet TOC* Measured: *12/02/99*
Drilling Method: *HSA*	Groundwater Elevation: *1.37 feet msl*
Drilling Company: *Miller Drilling SC Cert #1532*	Total Depth: *14.0 feet*
Geologist: *D. Doyle*	Well Screen: *3.35 to 12.69 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	OVA (ppm)	% RECOVERY	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			1	NA	0		SM	Dark brown Silty Sand fill, dense, slightly moist.	
			2	20	70				5.6
								Black Clay and fine Sand, dense, moist.	
5			3	204	50				
								Black Clay with trace fine Sand and Silt, med. stiff, moist.	
			4	111	50				
							OL	Black Clay with Silt and fine Sand, saturated.	
			5	313	100				
10			6	132	75				
			7	73	100				3.4
								Boring Total Depth - 14.0 feet	
15									
20									

WELL DIAGRAM



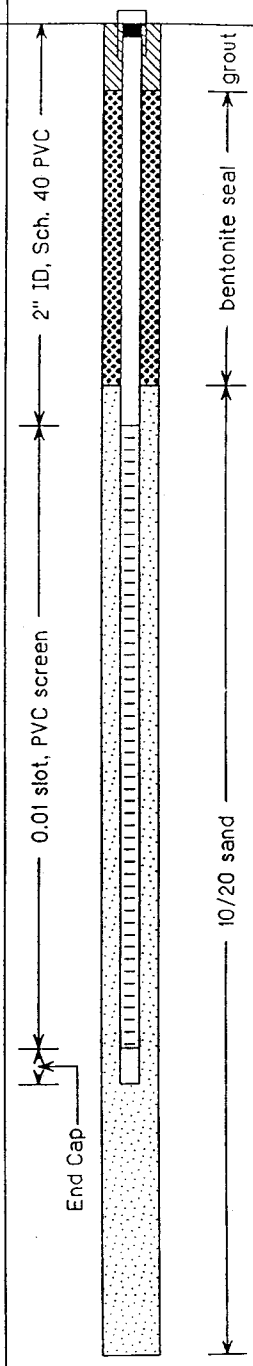
ENSAFE

Monitoring Well FDS-20F

Project: *FDS, CNSY*	Coordinates: *231997.98 E, 372667.07 N*
Location: *Charleston, SC*	Surface Elevation: *6.3 feet msl*
Started at *1040 on 11-20-99*	TOC Elevation: *6.22 feet msl*
Completed at *1240 on 11-20-99*	Depth to Groundwater: *4.01 feet TOC* Measured: *12/02/99*
Drilling Method: *HSA*	Groundwater Elevation: *2.21 feet msl*
Drilling Company: *Miller Drilling SC Cert #1532*	Total Depth: *20.0 feet*
Geologist: *D. Doyle*	Well Screen: *6.0 to 15.34 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	OVA (ppm)	% RECOVERY	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
								Asphalt	
5								Dark gray Silty Sand, med. dense, moist.	1.3
			1	590	75			Black Silty med. Sand, med. dense, saturated	
			2	2	1		SM	Gray to black Silty fine Sand, med. dense, saturated.	
10			3	1195	100				
			4	3911	100		OL	Black to gray Silt, soft, saturated.	-5.7
			5	48	100				-7.7
15									
20									

WELL DIAGRAM



Appendix B

Analytical Data

Data Assessment

Data were evaluated to determine if contamination in the laboratory/field blanks affected the usability of the data. According to the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Review* the purpose of laboratory and/or field blanks is to determine the existence and magnitude of contamination resulting from laboratory and field activities. Specific validation criteria is applied to environmental samples when contamination is detected in blanks and the affected data is evaluated to determine if there is an inherent variability in the data, or if the problem is an isolated occurrence not affecting other data. Positive sample results should be reported unless the concentration of the compound in the sample is less than or equal to ten times the amount in any blank for the common laboratory contaminants (acetone, methylene chloride and 2-butanone), or five times the amount for other volatile compounds. Any volatile compound detected in the sample that was also detected in any associated blank, and the result is within the criteria mentioned above, is qualified as nondetect (U).

Samples collected on 21 February 2001 had an associated laboratory method blank analyzed with a single detection of methylene chloride at 1.93 μg/L. Using the ten times rule, any result in the samples analyzed in the same batch with this blank that is less than 19.3 μg/L would be considered nondetect. Methylene chloride results for samples HFFGP01405, 1410, 1415, 1425, 1430, 1605, 1625 and 1630 were affected and following EPA guidelines the results would be qualified as 1U (the reporting limit).

Samples collected on 23 February 2001 had an associated trip blank (HFFTP0130)with a single detection of acetone at 2.67 μg/L and the associated method blank had a single detection of chloroform at 0.533 μg/L. After applying the EPA validation guideline rules for blank contamination any acetone and chloroform detections in the samples would be compared to 26.7 μg/L and 2.66 μg/L respectively. Acetone and chloroform results for samples HFFGP01015, 1025, 1030, 1115, 1120, 1125, 1130, 1505, 1515, 1520 and 1530 were affected and following EPA guidelines the results would be qualified as 5U and 1U respectively. Table B-1 lists the samples and their associated results.

Table B-1
Hobson Fuel Farm Vertical Profile Samples
Charleston Naval Complex, South Carolina

Sample ID	Parameter	Result (ug/L)	Trip Blank (μg/L)	Method Blank (μg/L)	Validated Results (μg/L)
HFFGP01015	Toluene	0.244	ND	ND	0.244
	Acetone	3.05	2.67	ND	5U
	Chloroform	0.329	0.53	ND	1U
HFFGP01025	Ethylbenzene	0.216	ND	ND	0.216
	Toluene	0.377	ND	ND	0.377
	Acetone	3.37	2.67	ND	5U
	Chloroform	0.221	0.53	ND	1U
	Methylene chloride	0.633	ND	ND	0.633
HFFGP01030	Ethylbenzene	0.22	ND	ND	0.22
	Toluene	0.313	ND	ND	0.313
	Acetone	3.64	2.67	ND	5U

Table B-1
Hobson Fuel Farm Vertical Profile Samples
Charleston Naval Complex, South Carolina

Sample ID	Parameter	Result (ug/L)	Trip Blank (μg/L)	Method Blank (μg/L)	Validated Results (μg/L)
	Chloroform	0.215	0.53	ND	1U
HFFGP01115	Toluene	0.325	ND	ND	0.325
	Acetone	2.06	2.67	ND	5U
	Bromodichloromethane	0.965	ND	ND	0.965
	Bromoform	1.04	ND	ND	1.04
	Chloroform	0.581	0.53	ND	1U
	Dibromochloromethane	1.98	ND	ND	1.98
HFFGP01120	Acetone	3.84	2.67	ND	5U
	Bromodichloromethane	0.323	ND	ND	0.323
	Chloroform	0.386	0.53	ND	1U
	Dibromochloromethane	0.631	ND	ND	0.631
HFFGP01125	Ethylbenzene	0.637	ND	ND	0.637
	Toluene	0.406	ND	ND	0.406
	Acetone	2.38	2.67	ND	5U
	Bromodichloromethane	0.555	ND	ND	0.555
	Bromoform	0.511	ND	ND	0.511
	Chloroform	0.447	0.53	ND	1U
	Dibromochloromethane	1.07	ND	ND	ND
HFFGP01130	Ethylbenzene	0.226	ND	ND	0.226
	Toluene	0.317	ND	ND	0.317
	Acetone	3.07	2.67	ND	5U
	Chloroform	0.343	0.53	ND	1U
HFFGP01405	Acetone	4.36	NT	ND	4.36
	Bromodichloromethane	0.904	NT	ND	0.904
	Bromoform	0.94	NT	ND	0.94
	Chloroform	0.673	NT	ND	0.673
	Dibromochloromethane	1.69	NT	ND	1.69
	Methylene chloride	1.51	NT	1.93	1U
HFFGP01410	Acetone	3.67	NT	ND	3.67
	Bromodichloromethane	0.818	NT	ND	0.818
	Bromoform	0.609	NT	ND	0.609
	Chloroform	0.646	NT	ND	0.646
	Dibromochloromethane	1.44	NT	ND	1.44
	Methylene chloride	0.831	NT	1.93	1U
HFFGP01415	Acetone	3.57	NT	ND	3.57
	Bromodichloromethane	0.358	NT	ND	0.358
	Chloroform	0.446	NT	ND	0.446
	Dibromochloromethane	0.723	NT	ND	0.723
	Methylene chloride	1.02	NT	1.93	1U
HFFGP01425	Ethylbenzene	0.207	NT	ND	0.207
	Toluene	0.226	NT	ND	0.226
	Acetone	2.89	NT	ND	2.89
	Chloroform	0.329	NT	ND	0.329
	Methylene chloride	0.674	NT	1.93	1U
HFFGP01430	Ethylbenzene	0.279	NT	ND	0.279
	Toluene	0.289	NT	ND	0.289
	Acetone	3.03	NT	ND	3.03
	Chloroform	0.307	NT	ND	0.307
	Methylene chloride	1.37	NT	1.93	1U

Table B-1
Hobson Fuel Farm Vertical Profile Samples
Charleston Naval Complex, South Carolina

Sample ID	Parameter	Result (ug/L)	Trip Blank (μg/L)	Method Blank (μg/L)	Validated Results (μg/L)
HFFGP01505	Acetone	4.34	2.67	ND	5U
	Bromodichloromethane	0.157	ND	ND	0.157
	Chloroform	0.462	0.53	ND	1U
HFFGP01515	Acetone	3.57	2.67	ND	5U
	Chloroform	0.455	0.53	ND	1U
HFFGP01520	Ethylbenzene	0.282	ND	ND	0.282
	Toluene	0.267	ND	ND	0.267
	Acetone	3.18	2.67	ND	5U
	Bromodichloromethane	0.496	ND	ND	0.496
	Chloroform	0.579	0.53	ND	1U
	Dibromochloromethane	0.741	ND	ND	0.741
HFFGP01530	Benzene	0.17	ND	ND	0.17
	Ethylbenzene	0.208	ND	ND	0.208
	Toluene	0.594	ND	ND	0.594
	Acetone	2.94	2.67	ND	5U
	Bromodichloromethane	1.17	ND	ND	1.17
	Bromoform	1.18	ND	ND	1.18
	Chloroform	0.791	0.53	ND	1U
	Dibromochloromethane	2.14	ND	ND	2.14
HFFGP01605	Acetone	1.92	NT	ND	1.92
	Bromodichloromethane	0.411	NT	ND	0.411
	Chlorobenzene	0.346	NT	ND	0.346
	Chloroform	0.204	NT	ND	0.204
	Dibromochloromethane	0.714	NT	ND	0.714
	Methylene chloride	0.822	NT	1.93	1U
HFFGP01610	Bromodichloromethane	0.304	NT	ND	0.304
	Dibromochloromethane	0.642	NT	ND	0.642
HFFGP01625	Ethylbenzene	0.221	NT	ND	0.221
	Toluene	0.277	NT	ND	0.277
	Bromodichloromethane	4.3	NT	ND	4.3
	Bromoform	4.58	NT	ND	4.58
	Chloroform	2.02	NT	ND	2.02
	Dibromochloromethane	8.64	NT	ND	8.64
	Methylene chloride	0.729	NT	1.93	1U
HFFGP01630	Ethylbenzene	0.262	NT	ND	0.262
	Toluene	0.297	NT	ND	0.297
	Acetone	1.62	NT	ND	1.62
	Bromodichloromethane	5.85	NT	ND	5.85
	Bromoform	6.97	NT	ND	6.97
	Chloroform	2.62	NT	ND	2.62
	Dibromochloromethane	11.6	NT	ND	11.6
	Methylene chloride	0.903	NT	1.93	1U

Notes:
ND = Not detected.
NT = Not taken.
U = Results are non detected and reported to Reporting Limit.

FDS CAR ADDENDUM
AREA 19
DPT SOIL RESULTS

SW846-SVOA													
	SAMPLE ID ------->	F19-S-P001-06		F19-S-P002-05		F19-S-P003-05		F19-S-P004-06		F19-S-P005-05		F19-S-P006-04	
	ORIGINAL ID ----->	F19SP00106		F19SP00205		F19SP00305		F19SP00406		F19SP00505		F19SP00604	
	LAB SAMPLE ID --->	37182.04		37182.02		37182.03		37202.01		37182.05		37182.01	
	ID FROM REPORT -->	F19SP00106		F19SP00205		F19SP00305		F19SP00406		F19SP00505		F19SP00604	
	SAMPLE DATE ----->	01/21/99		01/21/99		01/21/99		01/22/99		01/21/99		01/21/99	
	DATE EXTRACTED -->	01/25/99		01/25/99		01/25/99		01/25/99		01/25/99		01/25/99	
	DATE ANALYZED --->	02/04/99		02/04/99		02/04/99		02/04/99		02/04/99		02/04/99	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	37182		37182		37182		37202		37182		37182	
91-20-3	Naphthalene	450.		400.	U	330.	U	350.	U	360.	U	3000.	
56-55-3	Benzo(a)anthracene	140.	J	400.	U	330.	U	6300.	E	360.	U	1900.	
218-01-9	Chrysene	240.	J	400.	U	330.	U	6300.	E	360.	U	3200.	
205-99-2	Benzo(b)fluoranthene	110.	J	400.	U	330.	U	5500.	E	360.	U	1800.	J
207-08-9	Benzo(k)fluoranthene	120.	J	400.	U	330.	U	5600.	E	360.	U	2000.	
108-95-2	Phenol	NR		NR		NR		NR		NR		NR	
111-44-4	bis(2-Chloroethyl)ether	NR		NR		NR		NR		NR		NR	
95-57-8	2-Chlorophenol	NR		NR		NR		NR		NR		NR	
541-73-1	1,3-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
106-46-7	1,4-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
100-51-6	Benzyl alcohol	NR		NR		NR		NR		NR		NR	
95-50-1	1,2-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
95-48-7	2-Methylphenol (o-Cresol)	NR		NR		NR		NR		NR		NR	
108-60-1	2,2'-oxybis(1-Chloropropane)	NR		NR		NR		NR		NR		NR	
106-44-5	4-Methylphenol (p-Cresol)	NR		NR		NR		NR		NR		NR	
621-64-7	N-Nitroso-di-n-propylamine	NR		NR		NR		NR		NR		NR	
67-72-1	Hexachloroethane	NR		NR		NR		NR		NR		NR	
98-95-3	Nitrobenzene	NR		NR		NR		NR		NR		NR	
78-59-1	Isophorone	NR		NR		NR		NR		NR		NR	
88-75-5	2-Nitrophenol	NR		NR		NR		NR		NR		NR	
105-67-9	2,4-Dimethylphenol	NR		NR		NR		NR		NR		NR	
65-85-0	Benzoic acid	NR		NR		NR		NR		NR		NR	
111-91-1	bis(2-Chloroethoxy)methane	NR		NR		NR		NR		NR		NR	
120-83-2	2,4-Dichlorophenol	NR		NR		NR		NR		NR		NR	
120-82-1	1,2,4-Trichlorobenzene	NR		NR		NR		NR		NR		NR	
106-47-8	4-Chloroaniline	NR		NR		NR		NR		NR		NR	
87-68-3	Hexachlorobutadiene	NR		NR		NR		NR		NR		NR	
59-50-7	4-Chloro-3-methylphenol	NR		NR		NR		NR		NR		NR	
91-57-6	2-Methylnaphthalene	NR		NR		NR		NR		NR		NR	
77-47-4	Hexachlorocyclopentadiene	NR		NR		NR		NR		NR		NR	
88-06-2	2,4,6-Trichlorophenol	NR		NR		NR		NR		NR		NR	
95-95-4	2,4,5-Trichlorophenol	NR		NR		NR		NR		NR		NR	
91-58-7	2-Chloronaphthalene	NR		NR		NR		NR		NR		NR	
88-74-4	2-Nitroaniline	NR		NR		NR		NR		NR		NR	
131-11-3	Dimethyl phthalate	NR		NR		NR		NR		NR		NR	
208-96-8	Acenaphthylene	NR		NR		NR		NR		NR		NR	

FDS CAR ADDENDUM
AREA 19
DPT SOIL RESULTS

SW846-SVOA							
	SAMPLE ID ------->	F19-S-P001-06	F19-S-P002-05	F19-S-P003-05	F19-S-P004-06	F19-S-P005-05	F19-S-P006-04
	ORIGINAL ID ----->	F19SP00106	F19SP00205	F19SP00305	F19SP00406	F19SP00505	F19SP00604
	LAB SAMPLE ID --->	37182.04	37182.02	37182.03	37202.01	37182.05	37182.01
	ID FROM REPORT -->	F19SP00106	F19SP00205	F19SP00305	F19SP00406	F19SP00505	F19SP00604
	SAMPLE DATE ----->	01/21/99	01/21/99	01/21/99	01/22/99	01/21/99	01/21/99
	DATE EXTRACTED -->	01/25/99	01/25/99	01/25/99	01/25/99	01/25/99	01/25/99
	DATE ANALYZED --->	02/04/99	02/04/99	02/04/99	02/04/99	02/04/99	02/04/99
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
CAS #	Parameter	37182	37182	37182	37202	37182	37182
99-09-2	3-Nitroaniline	NR	NR	NR	NR	NR	NR
83-32-9	Acenaphthene	NR	NR	NR	NR	NR	NR
51-28-5	2,4-Dinitrophenol	NR	NR	NR	NR	NR	NR
100-02-7	4-Nitrophenol	NR	NR	NR	NR	NR	NR
132-64-9	Dibenzofuran	NR	NR	NR	NR	NR	NR
121-14-2	2,4-Dinitrotoluene	NR	NR	NR	NR	NR	NR
606-20-2	2,6-Dinitrotoluene	NR	NR	NR	NR	NR	NR
84-66-2	Diethylphthalate	NR	NR	NR	NR	NR	NR
7005-72-3	4-Chlorophenylphenylether	NR	NR	NR	NR	NR	NR
86-73-7	Fluorene	NR	NR	NR	NR	NR	NR
100-01-6	4-Nitroaniline	NR	NR	NR	NR	NR	NR
534-52-1	2-Methyl-4,6-Dinitrophenol	NR	NR	NR	NR	NR	NR
86-30-6	N-Nitrosodiphenylamine	NR	NR	NR	NR	NR	NR
101-55-3	4-Bromophenyl-phenylether	NR	NR	NR	NR	NR	NR
118-74-1	Hexachlorobenzene	NR	NR	NR	NR	NR	NR
87-86-5	Pentachlorophenol	NR	NR	NR	NR	NR	NR
85-01-8	Phenanthrene	NR	NR	NR	NR	NR	NR
120-12-7	Anthracene	NR	NR	NR	NR	NR	NR
84-74-2	Di-n-butylphthalate	NR	NR	NR	NR	NR	NR
206-44-0	Fluoranthene	NR	NR	NR	NR	NR	NR
129-00-0	Pyrene	NR	NR	NR	NR	NR	NR
85-68-7	Butylbenzylphthalate	NR	NR	NR	NR	NR	NR
91-94-1	3,3'-Dichlorobenzidine	NR	NR	NR	NR	NR	NR
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	NR	NR	NR	NR	NR	NR
117-84-0	Di-n-octyl phthalate	NR	NR	NR	NR	NR	NR
50-32-8	Benzo(a)pyrene	NR	NR	NR	NR	NR	NR
193-39-5	Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	NR
53-70-3	Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	NR
191-24-2	Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	NR

FDS CAR ADDENDUM
AREA 19
DPT SOIL RESULTS

SW846-SVOA											
	SAMPLE ID ------->	F19-S-P007-06		F19-S-P009-09		F19-S-P010-05		F19-S-P011-05		F19-S-P012-05	
	ORIGINAL ID ----->	F19SP00706		F19SP00909		F19SP01005		F19SP01105		F19SP01205	
	LAB SAMPLE ID --->	37182.06		38434.05		38434.06		38434.07		38434.08	
	ID FROM REPORT -->	F19SP00706		F19SP00909		F19SP01005		F19SP01105		F19SP01205	
	SAMPLE DATE ----->	01/21/99		05/07/99		05/07/99		05/07/99		05/07/99	
	DATE EXTRACTED -->	01/25/99		05/09/99		05/09/99		05/09/99		05/09/99	
	DATE ANALYZED --->	02/04/99		05/19/99		05/19/99		05/19/99		05/20/99	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	37182		38434		38434		38434		38434	
91-20-3	Naphthalene	380.	U	420.	U	410.	U	360.	U	47000.	
56-55-3	Benzo(a)anthracene	380.	U	75.	J	56.	J	360.	U	570.	J
218-01-9	Chrysene	380.	U	120.	J	71.	J	360.	U	1200.	J
205-99-2	Benzo(b)fluoranthene	380.	U	62.	J	58.	J	360.	U	390.	J
207-08-9	Benzo(k)fluoranthene	380.	U	54.	J	66.	J	360.	U	7800.	U
108-95-2	Phenol	NR		NR		NR		NR		NR	
111-44-4	bis(2-Chloroethyl)ether	NR		NR		NR		NR		NR	
95-57-8	2-Chlorophenol	NR		NR		NR		NR		NR	
541-73-1	1,3-Dichlorobenzene	NR		NR		NR		NR		NR	
106-46-7	1,4-Dichlorobenzene	NR		NR		NR		NR		NR	
100-51-6	Benzyl alcohol	NR		NR		NR		NR		NR	
95-50-1	1,2-Dichlorobenzene	NR		NR		NR		NR		NR	
95-48-7	2-Methylphenol (o-Cresol)	NR		NR		NR		NR		NR	
108-60-1	2,2'-oxybis(1-Chloropropane)	NR		NR		NR		NR		NR	
106-44-5	4-Methylphenol (p-Cresol)	NR		NR		NR		NR		NR	
621-64-7	N-Nitroso-di-n-propylamine	NR		NR		NR		NR		NR	
67-72-1	Hexachloroethane	NR		NR		NR		NR		NR	
98-95-3	Nitrobenzene	NR		NR		NR		NR		NR	
78-59-1	Isophorone	NR		NR		NR		NR		NR	
88-75-5	2-Nitrophenol	NR		NR		NR		NR		NR	
105-67-9	2,4-Dimethylphenol	NR		NR		NR		NR		NR	
65-85-0	Benzoic acid	NR		NR		NR		NR		NR	
111-91-1	bis(2-Chloroethoxy)methane	NR		NR		NR		NR		NR	
120-83-2	2,4-Dichlorophenol	NR		NR		NR		NR		NR	
120-82-1	1,2,4-Trichlorobenzene	NR		NR		NR		NR		NR	
106-47-8	4-Chloroaniline	NR		NR		NR		NR		NR	
87-68-3	Hexachlorobutadiene	NR		NR		NR		NR		NR	
59-50-7	4-Chloro-3-methylphenol	NR		NR		NR		NR		NR	
91-57-6	2-Methylnaphthalene	NR		NR		NR		NR		NR	
77-47-4	Hexachlorocyclopentadiene	NR		NR		NR		NR		NR	
88-06-2	2,4,6-Trichlorophenol	NR		NR		NR		NR		NR	
95-95-4	2,4,5-Trichlorophenol	NR		NR		NR		NR		NR	
91-58-7	2-Chloronaphthalene	NR		NR		NR		NR		NR	
88-74-4	2-Nitroaniline	NR		NR		NR		NR		NR	
131-11-3	Dimethyl phthalate	NR		NR		NR		NR		NR	
208-96-8	Acenaphthylene	NR		NR		NR		NR		NR	

FDS CAR ADDENDUM
AREA 19
DPT SOIL RESULTS

SW846-SVOA							
	SAMPLE ID ------->	F19-S-P007-06	F19-S-P009-09	F19-S-P010-05	F19-S-P011-05	F19-S-P012-05	
	ORIGINAL ID ----->	F19SP00706	F19SP00909	F19SP01005	F19SP01105	F19SP01205	
	LAB SAMPLE ID --->	37182.06	38434.05	38434.06	38434.07	38434.08	
	ID FROM REPORT -->	F19SP00706	F19SP00909	F19SP01005	F19SP01105	F19SP01205	
	SAMPLE DATE ----->	01/21/99	05/07/99	05/07/99	05/07/99	05/07/99	
	DATE EXTRACTED -->	01/25/99	05/09/99	05/09/99	05/09/99	05/09/99	
	DATE ANALYZED --->	02/04/99	05/19/99	05/19/99	05/19/99	05/20/99	
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	
CAS #	Parameter	37182	38434	38434	38434	38434	
99-09-2	3-Nitroaniline	NR	NR	NR	NR	NR	
83-32-9	Acenaphthene	NR	NR	NR	NR	NR	
51-28-5	2,4-Dinitrophenol	NR	NR	NR	NR	NR	
100-02-7	4-Nitrophenol	NR	NR	NR	NR	NR	
132-64-9	Dibenzofuran	NR	NR	NR	NR	NR	
121-14-2	2,4-Dinitrotoluene	NR	NR	NR	NR	NR	
606-20-2	2,6-Dinitrotoluene	NR	NR	NR	NR	NR	
84-66-2	Diethylphthalate	NR	NR	NR	NR	NR	
7005-72-3	4-Chlorophenylphenylether	NR	NR	NR	NR	NR	
86-73-7	Fluorene	NR	NR	NR	NR	NR	
100-01-6	4-Nitroaniline	NR	NR	NR	NR	NR	
534-52-1	2-Methyl-4,6-Dinitrophenol	NR	NR	NR	NR	NR	
86-30-6	N-Nitrosodiphenylamine	NR	NR	NR	NR	NR	
101-55-3	4-Bromophenyl-phenylether	NR	NR	NR	NR	NR	
118-74-1	Hexachlorobenzene	NR	NR	NR	NR	NR	
87-86-5	Pentachlorophenol	NR	NR	NR	NR	NR	
85-01-8	Phenanthrene	NR	NR	NR	NR	NR	
120-12-7	Anthracene	NR	NR	NR	NR	NR	
84-74-2	Di-n-butylphthalate	NR	NR	NR	NR	NR	
206-44-0	Fluoranthene	NR	NR	NR	NR	NR	
129-00-0	Pyrene	NR	NR	NR	NR	NR	
85-68-7	Butylbenzylphthalate	NR	NR	NR	NR	NR	
91-94-1	3,3'-Dichlorobenzidine	NR	NR	NR	NR	NR	
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	NR	NR	NR	NR	NR	
117-84-0	Di-n-octyl phthalate	NR	NR	NR	NR	NR	
50-32-8	Benzo(a)pyrene	NR	NR	NR	NR	NR	
193-39-5	Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	
53-70-3	Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	
191-24-2	Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	

FDS CAR ADDENDUM
AREA 19
DPT SOIL RESULTS

SW-SVOA													
	SAMPLE ID ------->	F19-S-P013-11		F19-S-P014-07		F19-S-P015-07		F19-S-P016-11		F19-S-P017-11		F19-S-P018-11	
	ORIGINAL ID ----->	F19SP01311		F19SP01407		F19SP01507		F19SP01611		F19SP01711		F19SP01811	
	LAB SAMPLE ID --->	39138.04		39138.05		39138.08		39138.07		39138.06		39138.03	
	ID FROM REPORT -->	F19SP01311		F19SP01407		F19SP01507		F19SP01611		F19SP01711		F19SP01811	
	SAMPLE DATE ----->	06/23/99		06/23/99		06/23/99		06/23/99		06/23/99		06/23/99	
	DATE EXTRACTED -->	06/25/99		06/25/99		06/25/99		06/25/99		06/25/99		06/25/99	
	DATE ANALYZED --->	06/29/99		06/29/99		06/29/99		06/29/99		06/29/99		06/29/99	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	39138		39138		39138		39138		39138		39138	
108-95-2	Phenol	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
111-44-4	bis(2-Chloroethyl)ether	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
95-57-8	2-Chlorophenol	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
541-73-1	1,3-Dichlorobenzene	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
106-46-7	1,4-Dichlorobenzene	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
100-51-6	Benzyl alcohol	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
95-50-1	1,2-Dichlorobenzene	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
95-48-7	2-Methylphenol (o-Cresol)	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
106-44-5	4-Methylphenol (p-Cresol)	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
621-64-7	N-Nitroso-di-n-propylamine	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
67-72-1	Hexachloroethane	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
98-95-3	Nitrobenzene	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
78-59-1	Isophorone	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
88-75-5	2-Nitrophenol	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
105-67-9	2,4-Dimethylphenol	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
65-85-0	Benzoic acid	4900.	U	4900.	U	980.	U	1000.	U	970.	U	980.	U
111-91-1	bis(2-Chloroethoxy)methane	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
120-83-2	2,4-Dichlorophenol	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
120-82-1	1,2,4-Trichlorobenzene	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
91-20-3	Naphthalene	18000.	E	2000.	U	1400.		160.	J	390.	U	390.	U
106-47-8	4-Chloroaniline	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
87-68-3	Hexachlorobutadiene	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
59-50-7	4-Chloro-3-methylphenol	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
91-57-6	2-Methylnaphthalene	75000.	E	6800.		5700.	E	920.		390.	U	390.	U
77-47-4	Hexachlorocyclopentadiene	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
88-06-2	2,4,6-Trichlorophenol	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
95-95-4	2,4,5-Trichlorophenol	4900.	U	4900.	U	980.	U	1000.	U	970.	U	980.	U
91-58-7	2-Chloronaphthalene	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
88-74-4	2-Nitroaniline	4900.	U	4900.	U	980.	U	1000.	U	970.	U	980.	U
131-11-3	Dimethyl phthalate	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
208-96-8	Acenaphthylene	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
99-09-2	3-Nitroaniline	4900.	U	4900.	U	980.	U	1000.	U	970.	U	980.	U
83-32-9	Acenaphthene	2000.	U	2000.	U	390.	U	400.	U	390.	U	390.	U
51-28-5	2,4-Dinitrophenol	4900.	U	4900.	U	980.	U	1000.	U	970.	U	980.	U
100-02-7	4-Nitrophenol	4900.	U	4900.	U	980.	U	1000.	U	970.	U	980.	U

FDS CAR ADDENDUM
AREA 19
DPT SOIL RESULTS

SW-SVOA																							
	SAMPLE ID ------->	F19-S-P013-11				F19-S-P014-07				F19-S-P015-07				F19-S-P016-11				F19-S-P017-11				F19-S-P018-11			
	ORIGINAL ID ----->	F19SP01311				F19SP01407				F19SP01507				F19SP01611				F19SP01711				F19SP01811			
	LAB SAMPLE ID --->	39138.04				39138.05				39138.08				39138.07				39138.06				39138.03			
	ID FROM REPORT -->	F19SP01311				F19SP01407				F19SP01507				F19SP01611				F19SP01711				F19SP01811			
	SAMPLE DATE ----->	06/23/99				06/23/99				06/23/99				06/23/99				06/23/99				06/23/99			
	DATE EXTRACTED -->	06/25/99				06/25/99				06/25/99				06/25/99				06/25/99				06/25/99			
	DATE ANALYZED --->	06/29/99				06/29/99				06/29/99				06/29/99				06/29/99				06/29/99			
	MATRIX ---------->	Soil				Soil				Soil				Soil				Soil				Soil			
	UNITS ---------->	UG/KG				UG/KG				UG/KG				UG/KG				UG/KG				UG/KG			
CAS #	Parameter	39138				39138				39138				39138				39138				39138			
132-64-9	Dibenzofuran	2000.	U			2000.	U			390.	U			400.	U			390.	U			390.	U		
121-14-2	2,4-Dinitrotoluene	2000.	U			2000.	U			390.	U			400.	U			390.	U			390.	U		
606-20-2	2,6-Dinitrotoluene	2000.	U			2000.	U			390.	U			400.	U			390.	U			390.	U		
84-66-2	Diethylphthalate	2000.	U			2000.	U			390.	U			400.	U			390.	U			390.	U		
7005-72-3	4-Chlorophenylphenylether	2000.	U			2000.	U			390.	U			400.	U			390.	U			390.	U		
86-73-7	Fluorene	7100.				1600.	J			720.				150.	J			390.	U			390.	U		
100-01-6	4-Nitroaniline	4900.	U			4900.	U			980.	U			1000.	U			970.	U			980.	U		
534-52-1	2-Methyl-4,6-Dinitrophenol	4900.	U			4900.	U			980.	U			1000.	U			970.	U			980.	U		
86-30-6	N-Nitrosodiphenylamine	2000.	U			2000.	U			390.	U			400.	U			390.	U			390.	U		
101-55-3	4-Bromophenyl-phenylether	2000.	U			2000.	U			390.	U			400.	U			390.	U			390.	U		
118-74-1	Hexachlorobenzene	2000.	U			2000.	U			390.	U			400.	U			390.	U			390.	U		
87-86-5	Pentachlorophenol	4900.	U			4900.	U			980.	U			1000.	U			970.	U			980.	U		
85-01-8	Phenanthrene	14000.				5700.				1200.				400.	U			390.	U			390.	U		
120-12-7	Anthracene	2000.	U			910.	J			390.	U			400.	U			390.	U			390.	U		
84-74-2	Di-n-butylphthalate	2000.	U			2000.	U			390.	U			400.	U			390.	U			390.	U		
206-44-0	Fluoranthene	2000.	U			4900.				390.	U			400.	U			390.	U			390.	U		
129-00-0	Pyrene	2000.	U			5900.				390.	U			400.	U			390.	U			390.	U		
85-68-7	Butylbenzylphthalate	2000.	U			2000.	U			390.	U			400.	U			390.	U			390.	U		
91-94-1	3,3'-Dichlorobenzidine	2000.	U			2000.	U			390.	U			400.	U			390.	U			390.	U		
56-55-3	Benzo(a)anthracene	600.	J			2100.				390.	U			400.	U			390.	U			390.	U		
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	2000.	U			2000.	U			25.	J			23.	J			390.	U			390.	U		
218-01-9	Chrysene	1100.	J			3000.				390.	U			400.	U			390.	U			390.	U		
117-84-0	Di-n-octyl phthalate	2000.	U			2000.	U			390.	U			400.	U			390.	U			390.	U		
205-99-2	Benzo(b)fluoranthene	2000.	U			2500.				390.	U			400.	U			390.	U			390.	U		
207-08-9	Benzo(k)fluoranthene	2000.	U			2400.				390.	U			400.	U			390.	U			390.	U		
50-32-8	Benzo(a)pyrene	2000.	U			2400.				390.	U			400.	U			390.	U			390.	U		
193-39-5	Indeno(1,2,3-cd)pyrene	2000.	U			1000.	J			390.	U			400.	U			390.	U			390.	U		
53-70-3	Dibenz(a,h)anthracene	2000.	U			2000.	U			390.	U			400.	U			390.	U			390.	U		
191-24-2	Benzo(g,h,i)perylene	2000.	U			940.	J			390.	U			400.	U			390.	U			390.	U		

FDS CAR ADDENDUM
AREA 19
DPT SOIL RESULTS

SW-SVOA											
	SAMPLE ID ------->	F19-S-P019-12		F19-S-P020-10							
	ORIGINAL ID ----->	F19SP01912		F19SP02010							
	LAB SAMPLE ID --->	39138.02		39138.01							
	ID FROM REPORT -->	F19SP01912		F19SP02010							
	SAMPLE DATE ----->	06/23/99		06/23/99							
	DATE EXTRACTED -->	06/25/99		06/25/99							
	DATE ANALYZED --->	06/29/99		06/29/99							
	MATRIX ---------->	Soil		Soil							
	UNITS ---------->	UG/KG		UG/KG							
CAS #	Parameter	39138		39138							
108-95-2	Phenol	400.	U	390.	U						
111-44-4	bis(2-Chloroethyl)ether	400.	U	390.	U						
95-57-8	2-Chlorophenol	400.	U	390.	U						
541-73-1	1,3-Dichlorobenzene	400.	U	390.	U						
106-46-7	1,4-Dichlorobenzene	400.	U	390.	U						
100-51-6	Benzyl alcohol	400.	U	390.	U						
95-50-1	1,2-Dichlorobenzene	400.	U	390.	U						
95-48-7	2-Methylphenol (o-Cresol)	400.	U	390.	U						
108-60-1	2,2'-oxybis(1-Chloropropane)	400.	U	390.	U						
106-44-5	4-Methylphenol (p-Cresol)	400.	U	390.	U						
621-64-7	N-Nitroso-di-n-propylamine	400.	U	390.	U						
67-72-1	Hexachloroethane	400.	U	390.	U						
98-95-3	Nitrobenzene	400.	U	390.	U						
78-59-1	Isophorone	400.	U	390.	U						
88-75-5	2-Nitrophenol	400.	U	390.	U						
105-67-9	2,4-Dimethylphenol	400.	U	390.	U						
65-85-0	Benzoic acid	990.	U	970.	U						
111-91-1	bis(2-Chloroethoxy)methane	400.	U	390.	U						
120-83-2	2,4-Dichlorophenol	400.	U	390.	U						
120-82-1	1,2,4-Trichlorobenzene	400.	U	390.	U						
91-20-3	Naphthalene	400.	U	9100.	E						
106-47-8	4-Chloroaniline	400.	U	390.	U						
87-68-3	Hexachlorobutadiene	400.	U	390.	U						
59-50-7	4-Chloro-3-methylphenol	400.	U	390.	U						
91-57-6	2-Methylnaphthalene	400.	U	1200.							
77-47-4	Hexachlorocyclopentadiene	400.	U	390.	U						
88-06-2	2,4,6-Trichlorophenol	400.	U	390.	U						
95-95-4	2,4,5-Trichlorophenol	990.	U	970.	U						
91-58-7	2-Chloronaphthalene	400.	U	390.	U						
88-74-4	2-Nitroaniline	990.	U	970.	U						
131-11-3	Dimethyl phthalate	400.	U	390.	U						
208-96-8	Acenaphthylene	400.	U	390.	U						
99-09-2	3-Nitroaniline	990.	U	970.	U						
83-32-9	Acenaphthene	400.	U	1900.							
51-28-5	2,4-Dinitrophenol	990.	U	970.	U						
100-02-7	4-Nitrophenol	990.	U	970.	U						

FDS CAR ADDENDUM
AREA 19
DPT SOIL RESULTS

SW-SVOA													
	SAMPLE ID ------->	F19-S-P019-12		F19-S-P020-10									
	ORIGINAL ID ----->	F19SP01912		F19SP02010									
	LAB SAMPLE ID --->	39138.02		39138.01									
	ID FROM REPORT -->	F19SP01912		F19SP02010									
	SAMPLE DATE ----->	06/23/99		06/23/99									
	DATE EXTRACTED -->	06/25/99		06/25/99									
	DATE ANALYZED --->	06/29/99		06/29/99									
	MATRIX ---------->	Soil		Soil									
	UNITS ---------->	UG/KG		UG/KG									
CAS #	Parameter	39138		39138									
132-64-9	Dibenzofuran	400.	U	790.									
121-14-2	2,4-Dinitrotoluene	400.	U	390.	U								
606-20-2	2,6-Dinitrotoluene	400.	U	390.	U								
84-66-2	Diethylphthalate	400.	U	390.	U								
7005-72-3	4-Chlorophenylphenylether	400.	U	390.	U								
86-73-7	Fluorene	400.	U	880.									
100-01-6	4-Nitroaniline	990.	U	970.	U								
534-52-1	2-Methyl-4,6-Dinitrophenol	990.	U	970.	U								
86-30-6	N-Nitrosodiphenylamine	400.	U	390.	U								
101-55-3	4-Bromophenyl-phenylether	400.	U	390.	U								
118-74-1	Hexachlorobenzene	400.	U	390.	U								
87-86-5	Pentachlorophenol	990.	U	970.	U								
85-01-8	Phenanthrene	400.	U	1300.									
120-12-7	Anthracene	400.	U	390.	U								
84-74-2	Di-n-butylphthalate	400.	U	390.	U								
206-44-0	Fluoranthene	400.	U	160.	J								
129-00-0	Pyrene	400.	U	100.	J								
85-68-7	Butylbenzylphthalate	400.	U	390.	U								
91-94-1	3,3'-Dichlorobenzidine	400.	U	390.	U								
56-55-3	Benzo(a)anthracene	400.	U	390.	U								
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	400.	U	390.	U								
218-01-9	Chrysene	400.	U	390.	U								
117-84-0	Di-n-octyl phthalate	400.	U	390.	U								
205-99-2	Benzo(b)fluoranthene	400.	U	390.	U								
207-08-9	Benzo(k)fluoranthene	400.	U	390.	U								
50-32-8	Benzo(a)pyrene	400.	U	390.	U								
193-39-5	Indeno(1,2,3-cd)pyrene	400.	U	390.	U								
53-70-3	Dibenz(a,h)anthracene	400.	U	390.	U								
191-24-2	Benzo(g,h,i)perylene	400.	U	390.	U								

FDS CAR ADDENDUM
AREA 19
DPT SOIL RESULTS

SW846-VOA													
	SAMPLE ID ------->	F19-S-P001-06		F19-S-P002-05		F19-S-P003-05		F19-S-P004-06		F19-S-P005-05		F19-S-P006-04	
	ORIGINAL ID ----->	F19SP00106		F19SP00205		F19SP00305		F19SP00406		F19SP00505		F19SP00604	
	LAB SAMPLE ID --->	37182.04		37182.02		37182.03		37202.01		37182.05		37182.01	
	ID FROM REPORT -->	F19SP00106		F19SP00205		F19SP00305		F19SP00406		F19SP00505		F19SP00604	
	SAMPLE DATE ----->	01/21/99		01/21/99		01/21/99		01/22/99		01/21/99		01/21/99	
	DATE ANALYZED --->	01/25/99		01/27/99		01/25/99		01/27/99		01/25/99		01/25/99	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	37182		37182		37182		37202		37182		37182	
71-43-2	Benzene	6.	U	5.	U	5.	U	6.	U	5.	U	8.	
100-41-4	Ethylbenzene	6.	U	5.	U	5.	U	6.	U	5.	U	83.	
108-88-3	Toluene	6.	U	5.	U	5.	U	6.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	6.	U	5.	U	5.	U	6.	U	5.	U	12.	
74-87-3	Chloromethane	NR		NR		NR		NR		NR		NR	
74-83-9	Bromomethane	NR		NR		NR		NR		NR		NR	
75-01-4	Vinyl chloride	NR		NR		NR		NR		NR		NR	
75-00-3	Chloroethane	NR		NR		NR		NR		NR		NR	
75-09-2	Methylene chloride	NR		NR		NR		NR		NR		NR	
67-64-1	Acetone	NR		NR		NR		NR		NR		NR	
75-15-0	Carbon disulfide	NR		NR		NR		NR		NR		NR	
75-35-4	1,1-Dichloroethene	NR		NR		NR		NR		NR		NR	
75-34-3	1,1-Dichloroethane	NR		NR		NR		NR		NR		NR	
540-59-0	1,2-Dichloroethene (total)	NR		NR		NR		NR		NR		NR	
67-66-3	Chloroform	NR		NR		NR		NR		NR		NR	
107-06-2	1,2-Dichloroethane	NR		NR		NR		NR		NR		NR	
78-93-3	2-Butanone (MEK)	NR		NR		NR		NR		NR		NR	
71-55-6	1,1,1-Trichloroethane	NR		NR		NR		NR		NR		NR	
56-23-5	Carbon tetrachloride	NR		NR		NR		NR		NR		NR	
108-05-4	Vinyl acetate	NR		NR		NR		NR		NR		NR	
75-27-4	Bromodichloromethane	NR		NR		NR		NR		NR		NR	
78-87-5	1,2-Dichloropropane	NR		NR		NR		NR		NR		NR	
10061-01-5	cis-1,3-Dichloropropene	NR		NR		NR		NR		NR		NR	
79-01-6	Trichloroethene	NR		NR		NR		NR		NR		NR	
124-48-1	Dibromochloromethane	NR		NR		NR		NR		NR		NR	
79-00-5	1,1,2-Trichloroethane	NR		NR		NR		NR		NR		NR	
10061-02-6	trans-1,3-Dichloropropene	NR		NR		NR		NR		NR		NR	
75-25-2	Bromoform	NR		NR		NR		NR		NR		NR	
108-10-1	4-Methyl-2-Pentanone (MIBK)	NR		NR		NR		NR		NR		NR	
591-78-6	2-Hexanone	NR		NR		NR		NR		NR		NR	
127-18-4	Tetrachloroethene	NR		NR		NR		NR		NR		NR	
79-34-5	1,1,2,2-Tetrachloroethane	NR		NR		NR		NR		NR		NR	
108-90-7	Chlorobenzene	NR		NR		NR		NR		NR		NR	
100-42-5	Styrene	NR		NR		NR		NR		NR		NR	
110-75-8	2-Chloroethyl vinyl ether	NR		NR		NR		NR		NR		NR	

FDS CAR ADDENDUM
AREA 19
DPT SOIL RESULTS

SW846-VOA							
	SAMPLE ID ------->	F19-S-P007-06	F19-S-P009-09	F19-S-P010-05	F19-S-P011-05	F19-S-P012-05	F19-S-P013-11
	ORIGINAL ID ----->	F19SP00706	F19SP00909	F19SP01005	F19SP01105	F19SP01205	F19SP01311
	LAB SAMPLE ID --->	37182.06	38434.05	38434.06	38434.07	38434.08	39138.04
	ID FROM REPORT -->	F19SP00706	F19SP00909	F19SP01005	F19SP01105	F19SP01205	F19SP01311
	SAMPLE DATE ----->	01/21/99	05/07/99	05/07/99	05/07/99	05/07/99	06/23/99
	DATE ANALYZED --->	01/25/99	05/11/99	05/10/99	05/10/99	05/11/99	06/28/99
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ----------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
CAS #	Parameter	37182	38434	38434	38434	38434	39138
71-43-2	Benzene	6. U	6. U	6. U	5. U	18.	26.
100-41-4	Ethylbenzene	6. U	6. U	6. U	5. U	7700. E	38.
108-88-3	Toluene	6. U	6. U	6. U	5. U	6. U	5. U
1330-20-7	Xylene (Total)	6. U	6. U	6. U	5. U	780. E	5. U
74-87-3	Chloromethane	NR	NR	NR	NR	NR	NR
74-83-9	Bromomethane	NR	NR	NR	NR	NR	NR
75-01-4	Vinyl chloride	NR	NR	NR	NR	NR	NR
75-00-3	Chloroethane	NR	NR	NR	NR	NR	NR
75-09-2	Methylene chloride	NR	NR	NR	NR	NR	NR
67-64-1	Acetone	NR	NR	NR	NR	NR	NR
75-15-0	Carbon disulfide	NR	NR	NR	NR	NR	NR
75-35-4	1,1-Dichloroethene	NR	NR	NR	NR	NR	NR
75-34-3	1,1-Dichloroethane	NR	NR	NR	NR	NR	NR
540-59-0	1,2-Dichloroethene (total)	NR	NR	NR	NR	NR	NR
67-66-3	Chloroform	NR	NR	NR	NR	NR	NR
107-06-2	1,2-Dichloroethane	NR	NR	NR	NR	NR	NR
78-93-3	2-Butanone (MEK)	NR	NR	NR	NR	NR	NR
71-55-6	1,1,1-Trichloroethane	NR	NR	NR	NR	NR	NR
56-23-5	Carbon tetrachloride	NR	NR	NR	NR	NR	NR
108-05-4	Vinyl acetate	NR	NR	NR	NR	NR	NR
75-27-4	Bromodichloromethane	NR	NR	NR	NR	NR	NR
78-87-5	1,2-Dichloropropane	NR	NR	NR	NR	NR	NR
10061-01-5	cis-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR
79-01-6	Trichloroethene	NR	NR	NR	NR	NR	NR
124-48-1	Dibromochloromethane	NR	NR	NR	NR	NR	NR
79-00-5	1,1,2-Trichloroethane	NR	NR	NR	NR	NR	NR
10061-02-6	trans-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR
75-25-2	Bromoform	NR	NR	NR	NR	NR	NR
108-10-1	4-Methyl-2-Pentanone (MIBK)	NR	NR	NR	NR	NR	NR
591-78-6	2-Hexanone	NR	NR	NR	NR	NR	NR
127-18-4	Tetrachloroethene	NR	NR	NR	NR	NR	NR
79-34-5	1,1,2,2-Tetrachloroethane	NR	NR	NR	NR	NR	NR
108-90-7	Chlorobenzene	NR	NR	NR	NR	NR	NR
100-42-5	Styrene	NR	NR	NR	NR	NR	NR
110-75-8	2-Chloroethyl vinyl ether	NR	NR	NR	NR	NR	NR

FDS CAR ADDENDUM
AREA 19
DPT SOIL RESULTS

SW846-VOA													
	SAMPLE ID ------->	F19-S-P014-07		F19-S-P015-07		F19-S-P016-11		F19-S-P017-11		F19-S-P018-11		F19-S-P019-12	
	ORIGINAL ID ----->	F19SP01407		F19SP01507		F19SP01611		F19SP01711		F19SP01811		F19SP01912	
	LAB SAMPLE ID --->	39138.05		39138.08		39138.07		39138.06		39138.03		39138.02	
	ID FROM REPORT -->	F19SP01407		F19SP01507		F19SP01611		F19SP01711		F19SP01811		F19SP01912	
	SAMPLE DATE ----->	06/23/99		06/23/99		06/23/99		06/23/99		06/23/99		06/23/99	
	DATE ANALYZED --->	06/29/99		06/28/99		06/28/99		06/29/99		06/28/99		06/28/99	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	39138		39138		39138		39138		39138		39138	
71-43-2	Benzene	6.	U	6.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	2.	J	300.	E	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	6.	U	6.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	3.	J	6.	U	5.	U	5.	U	5.	U	5.	U
74-87-3	Chloromethane	NR		NR		NR		NR		NR		NR	
74-83-9	Bromomethane	NR		NR		NR		NR		NR		NR	
75-01-4	Vinyl chloride	NR		NR		NR		NR		NR		NR	
75-00-3	Chloroethane	NR		NR		NR		NR		NR		NR	
75-09-2	Methylene chloride	NR		NR		NR		NR		NR		NR	
67-64-1	Acetone	NR		NR		NR		NR		NR		NR	
75-15-0	Carbon disulfide	NR		NR		NR		NR		NR		NR	
75-35-4	1,1-Dichloroethene	NR		NR		NR		NR		NR		NR	
75-34-3	1,1-Dichloroethane	NR		NR		NR		NR		NR		NR	
540-59-0	1,2-Dichloroethene (total)	NR		NR		NR		NR		NR		NR	
67-66-3	Chloroform	NR		NR		NR		NR		NR		NR	
107-06-2	1,2-Dichloroethane	NR		NR		NR		NR		NR		NR	
78-93-3	2-Butanone (MEK)	NR		NR		NR		NR		NR		NR	
71-55-6	1,1,1-Trichloroethane	NR		NR		NR		NR		NR		NR	
56-23-5	Carbon tetrachloride	NR		NR		NR		NR		NR		NR	
108-05-4	Vinyl acetate	NR		NR		NR		NR		NR		NR	
75-27-4	Bromodichloromethane	NR		NR		NR		NR		NR		NR	
78-87-5	1,2-Dichloropropane	NR		NR		NR		NR		NR		NR	
10061-01-5	cis-1,3-Dichloropropene	NR		NR		NR		NR		NR		NR	
79-01-6	Trichloroethene	NR		NR		NR		NR		NR		NR	
124-48-1	Dibromochloromethane	NR		NR		NR		NR		NR		NR	
79-00-5	1,1,2-Trichloroethane	NR		NR		NR		NR		NR		NR	
10061-02-6	trans-1,3-Dichloropropene	NR		NR		NR		NR		NR		NR	
75-25-2	Bromoform	NR		NR		NR		NR		NR		NR	
108-10-1	4-Methyl-2-Pentanone (MIBK)	NR		NR		NR		NR		NR		NR	
591-78-6	2-Hexanone	NR		NR		NR		NR		NR		NR	
127-18-4	Tetrachloroethene	NR		NR		NR		NR		NR		NR	
79-34-5	1,1,2,2-Tetrachloroethane	NR		NR		NR		NR		NR		NR	
108-90-7	Chlorobenzene	NR		NR		NR		NR		NR		NR	
100-42-5	Styrene	NR		NR		NR		NR		NR		NR	
110-75-8	2-Chloroethyl vinyl ether	NR		NR		NR		NR		NR		NR	

FDS CAR ADDENDUM
AREA 19
DPT SOIL RESULTS

SW846-VOA

SAMPLE ID ------->	F19-S-P020-10
ORIGINAL ID ----->	F19SP02010
LAB SAMPLE ID --->	39138.01
ID FROM REPORT -->	F19SP02010
SAMPLE DATE ----->	06/23/99
DATE ANALYZED --->	06/28/99
MATRIX ---------->	Soil
UNITS ---------->	UG/KG

CAS #	Parameter	39138	
71-43-2	Benzene	5.	U
100-41-4	Ethylbenzene	5.	U
108-88-3	Toluene	5.	U
1330-20-7	Xylene (Total)	1.	J
74-87-3	Chloromethane	NR	
74-83-9	Bromomethane	NR	
75-01-4	Vinyl chloride	NR	
75-00-3	Chloroethane	NR	
75-09-2	Methylene chloride	NR	
67-64-1	Acetone	NR	
75-15-0	Carbon disulfide	NR	
75-35-4	1,1-Dichloroethene	NR	
75-34-3	1,1-Dichloroethane	NR	
540-59-0	1,2-Dichloroethene (total)	NR	
67-66-3	Chloroform	NR	
107-06-2	1,2-Dichloroethane	NR	
78-93-3	2-Butanone (MEK)	NR	
71-55-6	1,1,1-Trichloroethane	NR	
56-23-5	Carbon tetrachloride	NR	
108-05-4	Vinyl acetate	NR	
75-27-4	Bromodichloromethane	NR	
78-87-5	1,2-Dichloropropane	NR	
10061-01-5	cis-1,3-Dichloropropene	NR	
79-01-6	Trichloroethene	NR	
124-48-1	Dibromochloromethane	NR	
79-00-5	1,1,2-Trichloroethane	NR	
10061-02-6	trans-1,3-Dichloropropene	NR	
75-25-2	Bromoform	NR	
108-10-1	4-Methyl-2-Pentanone (MIBK)	NR	
591-78-6	2-Hexanone	NR	
127-18-4	Tetrachloroethene	NR	
79-34-5	1,1,2,2-Tetrachloroethane	NR	
108-90-7	Chlorobenzene	NR	
100-42-5	Styrene	NR	
110-75-8	2-Chloroethyl vinyl ether	NR	

FDS CAR ADDENDUM
AREA 19
DPT SOIL RESULTS

SW846-SVOA													
	SAMPLE ID ------->	F19-S-P021-03		F19-C-P021-03		F19-S-P022-03		F19-S-P023-03		F19-S-P024-03		F19-C-P024-03	
	ORIGINAL ID ----->	F19SP02103		F19CP02103		F19SP02203		F19SP02303		F19SP02403		F19CP02403	
	LAB SAMPLE ID --->	44538.13		44538.14		44538.15		44538.16		45080.09		45080.10	
	ID FROM REPORT -->	F19SP02103		F19CP02103		F19SP02203		F19SP02303		F19SP02403		F19CP02403	
	SAMPLE DATE ----->	10/02/00		10/02/00		10/02/00		10/02/00		11/15/00		11/15/00	
	DATE EXTRACTED -->	10/03/00		10/03/00		10/03/00		10/03/00		11/16/00		11/16/00	
	DATE ANALYZED --->	10/04/00		10/04/00		10/04/00		10/04/00		11/18/00		11/18/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	44538		44538		44538		44538		45080		45080	
91-20-3	Naphthalene	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
56-55-3	Benzo(a)anthracene	370.	U	400.	U	380.	U	83.	J	190.	J	220.	J
218-01-9	Chrysene	370.	U	400.	U	380.	U	76.	J	180.	J	260.	J
205-99-2	Benzo(b)fluoranthene	370.	U	400.	U	380.	U	400.	U	420.	U	200.	J
207-08-9	Benzo(k)fluoranthene	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
108-95-2	Phenol	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
111-44-4	bis(2-Chloroethyl)ether	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
95-57-8	2-Chlorophenol	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
541-73-1	1,3-Dichlorobenzene	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
106-46-7	1,4-Dichlorobenzene	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
100-51-6	Benzyl alcohol	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
95-50-1	1,2-Dichlorobenzene	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
95-48-7	2-Methylphenol (o-Cresol)	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
106-44-5	4-Methylphenol (p-Cresol)	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
621-64-7	N-Nitroso-di-n-propylamine	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
67-72-1	Hexachloroethane	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
98-95-3	Nitrobenzene	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
78-59-1	Isophorone	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
88-75-5	2-Nitrophenol	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
105-67-9	2,4-Dimethylphenol	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
65-85-0	Benzoic acid	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
111-91-1	bis(2-Chloroethoxy)methane	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
120-83-2	2,4-Dichlorophenol	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
120-82-1	1,2,4-Trichlorobenzene	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
106-47-8	4-Chloroaniline	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
87-68-3	Hexachlorobutadiene	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
59-50-7	4-Chloro-3-methylphenol	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
91-57-6	2-Methylnaphthalene	370.	U	400.	U	380.	U	2900.		420.	U	420.	U
77-47-4	Hexachlorocyclopentadiene	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
88-06-2	2,4,6-Trichlorophenol	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
95-95-4	2,4,5-Trichlorophenol	930.	U	990.	U	960.	U	1000.	U	1100.	U	1100.	U
91-58-7	2-Chloronaphthalene	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
88-74-4	2-Nitroaniline	930.	U	990.	U	960.	U	1000.	U	1100.	U	1100.	U
131-11-3	Dimethyl phthalate	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
208-96-8	Acenaphthylene	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U

FDS CAR ADDENDUM
AREA 19
DPT SOIL RESULTS

SW846-SVOA													
	SAMPLE ID ------->	F19-S-P021-03		F19-C-P021-03		F19-S-P022-03		F19-S-P023-03		F19-S-P024-03		F19-C-P024-03	
	ORIGINAL ID ----->	F19SP02103		F19CP02103		F19SP02203		F19SP02303		F19SP02403		F19CP02403	
	LAB SAMPLE ID --->	44538.13		44538.14		44538.15		44538.16		45080.09		45080.10	
	ID FROM REPORT -->	F19SP02103		F19CP02103		F19SP02203		F19SP02303		F19SP02403		F19CP02403	
	SAMPLE DATE ----->	10/02/00		10/02/00		10/02/00		10/02/00		11/15/00		11/15/00	
	DATE EXTRACTED -->	10/03/00		10/03/00		10/03/00		10/03/00		11/16/00		11/16/00	
	DATE ANALYZED --->	10/04/00		10/04/00		10/04/00		10/04/00		11/18/00		11/18/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	44538		44538		44538		44538		45080		45080	
99-09-2	3-Nitroaniline	930.	U	990.	U	960.	U	1000.	U	1100.	U	1100.	U
83-32-9	Acenaphthene	370.	U	400.	U	380.	U	240.	J	140.	J	140.	J
51-28-5	2,4-Dinitrophenol	930.	U	990.	U	960.	U	1000.	U	1100.	U	1100.	U
100-02-7	4-Nitrophenol	930.	U	990.	U	960.	U	1000.	U	1100.	U	1100.	U
132-64-9	Dibenzofuran	370.	U	400.	U	380.	U	240.	J	420.	U	420.	U
121-14-2	2,4-Dinitrotoluene	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
606-20-2	2,6-Dinitrotoluene	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
84-66-2	Diethylphthalate	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
7005-72-3	4-Chlorophenylphenylether	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
86-73-7	Fluorene	370.	U	400.	U	380.	U	540.		420.	U	420.	U
100-01-6	4-Nitroaniline	930.	U	990.	U	960.	U	1000.	U	1100.	U	1100.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	930.	U	990.	U	960.	U	1000.	U	1100.	U	1100.	U
86-30-6	N-Nitrosodiphenylamine	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
101-55-3	4-Bromophenyl-phenylether	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
118-74-1	Hexachlorobenzene	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
87-86-5	Pentachlorophenol	930.	U	990.	U	960.	U	1000.	U	1100.	U	1100.	U
85-01-8	Phenanthrene	370.	U	400.	U	380.	U	710.		110.	J	120.	J
120-12-7	Anthracene	370.	U	400.	U	380.	U	100.	J	63.	J	81.	J
84-74-2	Di-n-butylphthalate	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
206-44-0	Fluoranthene	370.	U	400.	U	380.	U	300.	J	310.	J	430.	
129-00-0	Pyrene	370.	U	400.	U	380.	U	210.	J	550.		630.	
85-68-7	Butylbenzylphthalate	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
91-94-1	3,3'-Dichlorobenzidine	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
117-84-0	Di-n-octyl phthalate	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
50-32-8	Benzo(a)pyrene	370.	U	400.	U	380.	U	52.	J	160.	J	160.	J
193-39-5	Indeno(1,2,3-cd)pyrene	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
53-70-3	Dibenz(a,h)anthracene	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U
191-24-2	Benzo(g,h,i)perylene	370.	U	400.	U	380.	U	400.	U	420.	U	420.	U

FDS CAR ADDENDUM
AREA 19
DPT SOIL RESULTS

SW846-SVOA

SAMPLE ID -------->	F19-S-P025-03
ORIGINAL ID ----->	F19SP02503
LAB SAMPLE ID --->	45080.11
ID FROM REPORT -->	F19SP02503
SAMPLE DATE ----->	11/15/00
DATE EXTRACTED -->	11/16/00
DATE ANALYZED --->	11/18/00
MATRIX ---------->	Soil
UNITS ---------->	UG/KG

CAS #	Parameter	45080	
91-20-3	Naphthalene	370.	U
56-55-3	Benzo(a)anthracene	370.	U
218-01-9	Chrysene	370.	U
205-99-2	Benzo(b)fluoranthene	370.	U
207-08-9	Benzo(k)fluoranthene	370.	U
108-95-2	Phenol	370.	U
111-44-4	bis(2-Chloroethyl)ether	370.	U
95-57-8	2-Chlorophenol	370.	U
541-73-1	1,3-Dichlorobenzene	370.	U
106-46-7	1,4-Dichlorobenzene	370.	U
100-51-6	Benzyl alcohol	370.	U
95-50-1	1,2-Dichlorobenzene	370.	U
95-48-7	2-Methylphenol (o-Cresol)	370.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370.	U
106-44-5	4-Methylphenol (p-Cresol)	370.	U
621-64-7	N-Nitroso-di-n-propylamine	370.	U
67-72-1	Hexachloroethane	370.	U
98-95-3	Nitrobenzene	370.	U
78-59-1	Isophorone	370.	U
88-75-5	2-Nitrophenol	370.	U
105-67-9	2,4-Dimethylphenol	370.	U
65-85-0	Benzoic acid	370.	U
111-91-1	bis(2-Chloroethoxy)methane	370.	U
120-83-2	2,4-Dichlorophenol	370.	U
120-82-1	1,2,4-Trichlorobenzene	370.	U
106-47-8	4-Chloroaniline	370.	U
87-68-3	Hexachlorobutadiene	370.	U
59-50-7	4-Chloro-3-methylphenol	370.	U
91-57-6	2-Methylnaphthalene	370.	U
77-47-4	Hexachlorocyclopentadiene	370.	U
88-06-2	2,4,6-Trichlorophenol	370.	U
95-95-4	2,4,5-Trichlorophenol	930.	U
91-58-7	2-Chloronaphthalene	370.	U
88-74-4	2-Nitroaniline	930.	U
131-11-3	Dimethyl phthalate	370.	U
208-96-8	Acenaphthylene	370.	U

FDS CAR ADDENDUM
AREA 19
DPT SOIL RESULTS

SW846-SVOA

SAMPLE ID -------->	F19-S-P025-03
ORIGINAL ID ----->	F19SP02503
LAB SAMPLE ID --->	45080.11
ID FROM REPORT -->	F19SP02503
SAMPLE DATE ----->	11/15/00
DATE EXTRACTED -->	11/16/00
DATE ANALYZED --->	11/18/00
MATRIX ---------->	Soil
UNITS ---------->	UG/KG

CAS #	Parameter	45080	
99-09-2	3-Nitroaniline	930.	U
83-32-9	Acenaphthene	370.	U
51-28-5	2,4-Dinitrophenol	930.	U
100-02-7	4-Nitrophenol	930.	U
132-64-9	Dibenzofuran	370.	U
121-14-2	2,4-Dinitrotoluene	370.	U
606-20-2	2,6-Dinitrotoluene	370.	U
84-66-2	Diethylphthalate	370.	U
7005-72-3	4-Chlorophenylphenylether	370.	U
86-73-7	Fluorene	370.	U
100-01-6	4-Nitroaniline	930.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	930.	U
86-30-6	N-Nitrosodiphenylamine	370.	U
101-55-3	4-Bromophenyl-phenylether	370.	U
118-74-1	Hexachlorobenzene	370.	U
87-86-5	Pentachlorophenol	930.	U
85-01-8	Phenanthrene	370.	U
120-12-7	Anthracene	370.	U
84-74-2	Di-n-butylphthalate	370.	U
206-44-0	Fluoranthene	370.	U
129-00-0	Pyrene	370.	U
85-68-7	Butylbenzylphthalate	370.	U
91-94-1	3,3'-Dichlorobenzidine	370.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	370.	U
117-84-0	Di-n-octyl phthalate	370.	U
50-32-8	Benzo(a)pyrene	370.	U
193-39-5	Indeno(1,2,3-cd)pyrene	370.	U
53-70-3	Dibenz(a,h)anthracene	370.	U
191-24-2	Benzo(g,h,i)perylene	370.	U

FDS CAR ADDENDUM
AREA 19
DPT SOIL RESULTS

SW846-VOA													
	SAMPLE ID ------->	F19-S-P021-03		F19-C-P021-03		F19-S-P022-03		F19-S-P023-03		F19-S-P024-03		F19-C-P024-03	
	ORIGINAL ID ----->	F19SP02103		F19CP02103		F19SP02203		F19SP02303		F19SP02403		F19CP02403	
	LAB SAMPLE ID --->	44538.13		44538.14		44538.15		44538.16		45080.09		45080.10	
	ID FROM REPORT -->	F19SP02103		F19CP02103		F19SP02203		F19SP02303		F19SP02403		F19CP02403	
	SAMPLE DATE ----->	10/02/00		10/02/00		10/02/00		10/02/00		11/15/00		11/15/00	
	DATE ANALYZED --->	10/06/00		10/06/00		10/06/00		10/06/00		11/17/00		11/17/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	44538		44538		44538		44538		45080		45080	
71-43-2	Benzene	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
100-41-4	Ethylbenzene	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
108-88-3	Toluene	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
1330-20-7	Xylene (Total)	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
74-87-3	Chloromethane	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
74-83-9	Bromomethane	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
75-01-4	Vinyl chloride	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
75-00-3	Chloroethane	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
75-09-2	Methylene chloride	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
67-64-1	Acetone	4.	U	5.	U	6.	U	50.		14.		10.	
75-15-0	Carbon disulfide	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
75-35-4	1,1-Dichloroethene	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
75-34-3	1,1-Dichloroethane	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
540-59-0	1,2-Dichloroethene (total)	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
67-66-3	Chloroform	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
107-06-2	1,2-Dichloroethane	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
78-93-3	2-Butanone (MEK)	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
71-55-6	1,1,1-Trichloroethane	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
56-23-5	Carbon tetrachloride	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
108-05-4	Vinyl acetate	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
75-27-4	Bromodichloromethane	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
78-87-5	1,2-Dichloropropane	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
10061-01-5	cis-1,3-Dichloropropene	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
79-01-6	Trichloroethene	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
124-48-1	Dibromochloromethane	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
79-00-5	1,1,2-Trichloroethane	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
10061-02-6	trans-1,3-Dichloropropene	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
75-25-2	Bromoform	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
591-78-6	2-Hexanone	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
127-18-4	Tetrachloroethene	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
108-90-7	Chlorobenzene	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
100-42-5	Styrene	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U
110-75-8	2-Chloroethyl vinyl ether	4.	U	5.	U	6.	U	5.	U	6.	U	6.	U

FDS CAR ADDENDUM
AREA 19
DPT SOIL RESULTS

SW846-VOA

SAMPLE ID -------->	F19-S-P025-03
ORIGINAL ID ----->	F19SP02503
LAB SAMPLE ID --->	45080.11
ID FROM REPORT -->	F19SP02503
SAMPLE DATE ----->	11/15/00
DATE ANALYZED --->	11/17/00
MATRIX ---------->	Soil
UNITS ---------->	UG/KG

CAS #	Parameter	45080	
71-43-2	Benzene	5.	U
100-41-4	Ethylbenzene	5.	U
108-88-3	Toluene	5.	U
1330-20-7	Xylene (Total)	5.	U
74-87-3	Chloromethane	5.	U
74-83-9	Bromomethane	5.	U
75-01-4	Vinyl chloride	5.	U
75-00-3	Chloroethane	5.	U
75-09-2	Methylene chloride	5.	U
67-64-1	Acetone	5.	U
75-15-0	Carbon disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	1.	J
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone (MEK)	5.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon tetrachloride	5.	U
108-05-4	Vinyl acetate	5.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.	U
591-78-6	2-Hexanone	5.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-90-7	Chlorobenzene	5.	U
100-42-5	Styrene	5.	U
110-75-8	2-Chloroethyl vinyl ether	5.	U

FDS CAR ADDENDUM
AREA 19
DPT GROUNDWATER RESULTS

SW846-VOA							
	SAMPLE ID ------->	F19-G-P001-01	F19-G-P002-01	F19-G-P003-01	F19-G-P004-01	F19-G-P005-01	F19-G-P009-01
	ORIGINAL ID ----->	F19GP00101	F19GP00201	F19GP00301	F19GP00401	F19GP00501	F19GP00901
	LAB SAMPLE ID --->	38036.01	38036.02	38036.04	38036.05	38036.03	38464.01
	ID FROM REPORT -->	F19GP00101	F19GP00201	F19GP00301	F19GP00401	F19GP00501	F19GP00901
	SAMPLE DATE ----->	04/12/99	04/12/99	04/12/99	04/12/99	04/12/99	05/10/99
	DATE ANALYZED --->	04/14/99	04/14/99	04/14/99	04/14/99	04/14/99	05/15/99
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ----------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
CAS #	Parameter	38036	38036	38036	38036	38036	38464
71-43-2	Benzene	5. U	5. U	5. U	5. U	5. U	8.
100-41-4	Ethylbenzene	1. J	5. U	5. U	5. U	5. U	5. U
108-88-3	Toluene	5. U	5. U	5. U	5. U	5. U	5. U
1330-20-7	Xylene (Total)	5. U	5. U	5. U	5. U	5. U	5. U
74-87-3	Chloromethane	NR	NR	NR	NR	NR	NR
74-83-9	Bromomethane	NR	NR	NR	NR	NR	NR
75-01-4	Vinyl chloride	NR	NR	NR	NR	NR	NR
75-00-3	Chloroethane	NR	NR	NR	NR	NR	NR
75-09-2	Methylene chloride	NR	NR	NR	NR	NR	NR
67-64-1	Acetone	NR	NR	NR	NR	NR	NR
75-15-0	Carbon disulfide	NR	NR	NR	NR	NR	NR
75-35-4	1,1-Dichloroethene	NR	NR	NR	NR	NR	NR
75-34-3	1,1-Dichloroethane	NR	NR	NR	NR	NR	NR
540-59-0	1,2-Dichloroethene (total)	NR	NR	NR	NR	NR	NR
67-66-3	Chloroform	NR	NR	NR	NR	NR	NR
107-06-2	1,2-Dichloroethane	NR	NR	NR	NR	NR	NR
78-93-3	2-Butanone (MEK)	NR	NR	NR	NR	NR	NR
71-55-6	1,1,1-Trichloroethane	NR	NR	NR	NR	NR	NR
56-23-5	Carbon tetrachloride	NR	NR	NR	NR	NR	NR
108-05-4	Vinyl acetate	NR	NR	NR	NR	NR	NR
75-27-4	Bromodichloromethane	NR	NR	NR	NR	NR	NR
78-87-5	1,2-Dichloropropane	NR	NR	NR	NR	NR	NR
10061-01-5	cis-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR
79-01-6	Trichloroethene	NR	NR	NR	NR	NR	NR
124-48-1	Dibromochloromethane	NR	NR	NR	NR	NR	NR
79-00-5	1,1,2-Trichloroethane	NR	NR	NR	NR	NR	NR
10061-02-6	trans-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR
75-25-2	Bromoform	NR	NR	NR	NR	NR	NR
108-10-1	4-Methyl-2-Pentanone (MIBK)	NR	NR	NR	NR	NR	NR
591-78-6	2-Hexanone	NR	NR	NR	NR	NR	NR
127-18-4	Tetrachloroethene	NR	NR	NR	NR	NR	NR
79-34-5	1,1,2,2-Tetrachloroethane	NR	NR	NR	NR	NR	NR
108-90-7	Chlorobenzene	NR	NR	NR	NR	NR	NR
100-42-5	Styrene	NR	NR	NR	NR	NR	NR
110-75-8	2-Chloroethyl vinyl ether	NR	NR	NR	NR	NR	NR

FDS CAR ADDENDUM
AREA 19
DPT GROUNDWATER RESULTS

SW846-VOA	SAMPLE ID ------->	F19-G-P010-01		F19-G-P011-01		F19-G-P012-01		F19-G-P013-01		F19-G-P014-01		F19-G-P015-01	
	ORIGINAL ID ----->	F19GP01001		F19GP01101		F19GP01201		F19GP01301		F19GP01401		F19GP01501	
	LAB SAMPLE ID --->	38464.02		38464.03		38464.04		39154.05		39154.06		39194.07	
	ID FROM REPORT -->	F19GP01001		F19GP01101		F19GP01201		F19GP01301		F19GP01401		F19GP01501	
	SAMPLE DATE ----->	05/10/99		05/10/99		05/10/99		06/24/99		06/24/99		06/28/99	
	DATE ANALYZED --->	05/15/99		05/15/99		05/15/99		07/07/99		07/07/99		07/01/99	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	38464		38464		38464		39154		39154		39194	
71-43-2	Benzene	5.	U	5.	U	5.	U	32.		2.	J	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	44.		40.		5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	2.	J	13.		5.	U	2.	J
74-87-3	Chloromethane	NR		NR		NR		NR		NR		NR	
74-83-9	Bromomethane	NR		NR		NR		NR		NR		NR	
75-01-4	Vinyl chloride	NR		NR		NR		NR		NR		NR	
75-00-3	Chloroethane	NR		NR		NR		NR		NR		NR	
75-09-2	Methylene chloride	NR		NR		NR		NR		NR		NR	
67-64-1	Acetone	NR		NR		NR		NR		NR		NR	
75-15-0	Carbon disulfide	NR		NR		NR		NR		NR		NR	
75-35-4	1,1-Dichloroethene	NR		NR		NR		NR		NR		NR	
75-34-3	1,1-Dichloroethane	NR		NR		NR		NR		NR		NR	
540-59-0	1,2-Dichloroethene (total)	NR		NR		NR		NR		NR		NR	
67-66-3	Chloroform	NR		NR		NR		NR		NR		NR	
107-06-2	1,2-Dichloroethane	NR		NR		NR		NR		NR		NR	
78-93-3	2-Butanone (MEK)	NR		NR		NR		NR		NR		NR	
71-55-6	1,1,1-Trichloroethane	NR		NR		NR		NR		NR		NR	
56-23-5	Carbon tetrachloride	NR		NR		NR		NR		NR		NR	
108-05-4	Vinyl acetate	NR		NR		NR		NR		NR		NR	
75-27-4	Bromodichloromethane	NR		NR		NR		NR		NR		NR	
78-87-5	1,2-Dichloropropane	NR		NR		NR		NR		NR		NR	
10061-01-5	cis-1,3-Dichloropropene	NR		NR		NR		NR		NR		NR	
79-01-6	Trichloroethene	NR		NR		NR		NR		NR		NR	
124-48-1	Dibromochloromethane	NR		NR		NR		NR		NR		NR	
79-00-5	1,1,2-Trichloroethane	NR		NR		NR		NR		NR		NR	
10061-02-6	trans-1,3-Dichloropropene	NR		NR		NR		NR		NR		NR	
75-25-2	Bromoform	NR		NR		NR		NR		NR		NR	
108-10-1	4-Methyl-2-Pentanone (MIBK)	NR		NR		NR		NR		NR		NR	
591-78-6	2-Hexanone	NR		NR		NR		NR		NR		NR	
127-18-4	Tetrachloroethene	NR		NR		NR		NR		NR		NR	
79-34-5	1,1,2,2-Tetrachloroethane	NR		NR		NR		NR		NR		NR	
108-90-7	Chlorobenzene	NR		NR		NR		NR		NR		NR	
100-42-5	Styrene	NR		NR		NR		NR		NR		NR	
110-75-8	2-Chloroethyl vinyl ether	NR		NR		NR		NR		NR		NR	

FDS CAR ADDENDUM
AREA 19
DPT GROUNDWATER RESULTS

SW846-VOA											
	SAMPLE ID ------->	F19-G-P016-01		F19-G-P017-01		F19-G-P018-01		F19-G-P019-01		F19-G-P020-01	
	ORIGINAL ID ----->	F19GP01601		F19GP01701		F19GP01801		F19GP01901		F19GP02001	
	LAB SAMPLE ID --->	39194.06		39194.05		39194.04		39194.03		39194.02	
	ID FROM REPORT -->	F19GP01601		F19GP01701		F19GP01801		F19GP01901		F19GP02001	
	SAMPLE DATE ----->	06/28/99		06/28/99		06/28/99		06/28/99		06/28/99	
	DATE ANALYZED --->	06/30/99		06/30/99		06/30/99		06/30/99		06/30/99	
	MATRIX ---------->	Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	39194		39194		39194		39194		39194	
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U
74-87-3	Chloromethane	NR		NR		NR		NR		NR	
74-83-9	Bromomethane	NR		NR		NR		NR		NR	
75-01-4	Vinyl chloride	NR		NR		NR		NR		NR	
75-00-3	Chloroethane	NR		NR		NR		NR		NR	
75-09-2	Methylene chloride	NR		NR		NR		NR		NR	
67-64-1	Acetone	NR		NR		NR		NR		NR	
75-15-0	Carbon disulfide	NR		NR		NR		NR		NR	
75-35-4	1,1-Dichloroethene	NR		NR		NR		NR		NR	
75-34-3	1,1-Dichloroethane	NR		NR		NR		NR		NR	
540-59-0	1,2-Dichloroethene (total)	NR		NR		NR		NR		NR	
67-66-3	Chloroform	NR		NR		NR		NR		NR	
107-06-2	1,2-Dichloroethane	NR		NR		NR		NR		NR	
78-93-3	2-Butanone (MEK)	NR		NR		NR		NR		NR	
71-55-6	1,1,1-Trichloroethane	NR		NR		NR		NR		NR	
56-23-5	Carbon tetrachloride	NR		NR		NR		NR		NR	
108-05-4	Vinyl acetate	NR		NR		NR		NR		NR	
75-27-4	Bromodichloromethane	NR		NR		NR		NR		NR	
78-87-5	1,2-Dichloropropane	NR		NR		NR		NR		NR	
10061-01-5	cis-1,3-Dichloropropene	NR		NR		NR		NR		NR	
79-01-6	Trichloroethene	NR		NR		NR		NR		NR	
124-48-1	Dibromochloromethane	NR		NR		NR		NR		NR	
79-00-5	1,1,2-Trichloroethane	NR		NR		NR		NR		NR	
10061-02-6	trans-1,3-Dichloropropene	NR		NR		NR		NR		NR	
75-25-2	Bromoform	NR		NR		NR		NR		NR	
108-10-1	4-Methyl-2-Pentanone (MIBK)	NR		NR		NR		NR		NR	
591-78-6	2-Hexanone	NR		NR		NR		NR		NR	
127-18-4	Tetrachloroethene	NR		NR		NR		NR		NR	
79-34-5	1,1,2,2-Tetrachloroethane	NR		NR		NR		NR		NR	
108-90-7	Chlorobenzene	NR		NR		NR		NR		NR	
100-42-5	Styrene	NR		NR		NR		NR		NR	
110-75-8	2-Chloroethyl vinyl ether	NR		NR		NR		NR		NR	

FDS CAR ADDENDUM
AREA 19
DPT GROUNDWATER RESULTS

SW846-SVOA																			
	SAMPLE ID ------->	F19-G-P001-01		F19-G-P002-01		F19-G-P003-01		F19-G-P004-01		F19-G-P005-01		F19-G-P009-01	
	ORIGINAL ID ----->	F19GP00101		F19GP00201		F19GP00301		F19GP00401		F19GP00501		F19GP00901	
	LAB SAMPLE ID --->	38036.01		38036.02		38036.04		38036.05		38036.03		38464.01	
	ID FROM REPORT -->	F19GP00101		F19GP00201		F19GP00301		F19GP00401		F19GP00501		F19GP00901	
	SAMPLE DATE ----->	04/12/99		04/12/99		04/12/99		04/12/99		04/12/99		05/10/99	
	DATE EXTRACTED -->	04/13/99		04/13/99		04/13/99		04/13/99		04/13/99		05/12/99	
	DATE ANALYZED --->	04/22/99		04/20/99		04/22/99		04/22/99		04/22/99		05/18/99	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	38036		38036		38036		38036		38036		38464	
91-20-3	Naphthalene	15.	U	20.	U	18.	U	16.	U	13.	U	2.	J
56-55-3	Benzo(a)anthracene	15.	U	20.	U	18.	U	16.	U	13.	U	10.	U
218-01-9	Chrysene	15.	U	20.	U	18.	U	1.	J	13.	U	10.	U
205-99-2	Benzo(b)fluoranthene	15.	U	20.	U	18.	U	0.8	J	13.	U	10.	U
207-08-9	Benzo(k)fluoranthene	15.	U	20.	U	18.	U	1.	J	13.	U	10.	U
108-95-2	Phenol	NR		NR		NR		NR		NR		NR	
111-44-4	bis(2-Chloroethyl)ether	NR		NR		NR		NR		NR		NR	
95-57-8	2-Chlorophenol	NR		NR		NR		NR		NR		NR	
541-73-1	1,3-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
106-46-7	1,4-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
100-51-6	Benzyl alcohol	NR		NR		NR		NR		NR		NR	
95-50-1	1,2-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
95-48-7	2-Methylphenol (o-Cresol)	NR		NR		NR		NR		NR		NR	
108-60-1	2,2'-oxybis(1-Chloropropane)	NR		NR		NR		NR		NR		NR	
106-44-5	4-Methylphenol (p-Cresol)	NR		NR		NR		NR		NR		NR	
621-64-7	N-Nitroso-di-n-propylamine	NR		NR		NR		NR		NR		NR	
67-72-1	Hexachloroethane	NR		NR		NR		NR		NR		NR	
98-95-3	Nitrobenzene	NR		NR		NR		NR		NR		NR	
78-59-1	Isophorone	NR		NR		NR		NR		NR		NR	
88-75-5	2-Nitrophenol	NR		NR		NR		NR		NR		NR	
105-67-9	2,4-Dimethylphenol	NR		NR		NR		NR		NR		NR	
65-85-0	Benzoic acid	NR		NR		NR		NR		NR		NR	
111-91-1	bis(2-Chloroethoxy)methane	NR		NR		NR		NR		NR		NR	
120-83-2	2,4-Dichlorophenol	NR		NR		NR		NR		NR		NR	
120-82-1	1,2,4-Trichlorobenzene	NR		NR		NR		NR		NR		NR	
106-47-8	4-Chloroaniline	NR		NR		NR		NR		NR		NR	
87-68-3	Hexachlorobutadiene	NR		NR		NR		NR		NR		NR	
59-50-7	4-Chloro-3-methylphenol	NR		NR		NR		NR		NR		NR	
91-57-6	2-Methylnaphthalene	NR		NR		NR		NR		NR		NR	
77-47-4	Hexachlorocyclopentadiene	NR		NR		NR		NR		NR		NR	
88-06-2	2,4,6-Trichlorophenol	NR		NR		NR		NR		NR		NR	
95-95-4	2,4,5-Trichlorophenol	NR		NR		NR		NR		NR		NR	
91-58-7	2-Chloronaphthalene	NR		NR		NR		NR		NR		NR	
88-74-4	2-Nitroaniline	NR		NR		NR		NR		NR		NR	
131-11-3	Dimethyl phthalate	NR		NR		NR		NR		NR		NR	
208-96-8	Acenaphthylene	NR		NR		NR		NR		NR		NR	

FDS CAR ADDENDUM
AREA 19
DPT GROUNDWATER RESULTS

SW846-SVOA													
		SAMPLE ID ------->	F19-G-P010-01		F19-G-P011-01		F19-G-P012-01						
		ORIGINAL ID ----->	F19GP01001		F19GP01101		F19GP01201						
		LAB SAMPLE ID --->	38464.02		38464.03		38464.04						
		ID FROM REPORT -->	F19GP01001		F19GP01101		F19GP01201						
		SAMPLE DATE ----->	05/10/99		05/10/99		05/10/99						
		DATE EXTRACTED -->	05/12/99		05/12/99		05/12/99						
		DATE ANALYZED --->	05/18/99		05/18/99		05/18/99						
		MATRIX ---------->	Water		Water		Water						
		UNITS ---------->	UG/L		UG/L		UG/L						
CAS #	Parameter		38464		38464		38464						
91-20-3	Naphthalene		0.8	J	3.	J	91000.						
56-55-3	Benzo(a)anthracene		10.	U	10.	U	17000.	U					
218-01-9	Chrysene		10.	U	10.	U	2400.	J					
205-99-2	Benzo(b)fluoranthene		10.	U	10.	U	17000.	U					
207-08-9	Benzo(k)fluoranthene		10.	U	10.	U	17000.	U					
108-95-2	Phenol		NR		NR		NR						
111-44-4	bis(2-Chloroethyl)ether		NR		NR		NR						
95-57-8	2-Chlorophenol		NR		NR		NR						
541-73-1	1,3-Dichlorobenzene		NR		NR		NR						
106-46-7	1,4-Dichlorobenzene		NR		NR		NR						
100-51-6	Benzyl alcohol		NR		NR		NR						
95-50-1	1,2-Dichlorobenzene		NR		NR		NR						
95-48-7	2-Methylphenol (o-Cresol)		NR		NR		NR						
108-60-1	2,2'-oxybis(1-Chloropropane)		NR		NR		NR						
106-44-5	4-Methylphenol (p-Cresol)		NR		NR		NR						
621-64-7	N-Nitroso-di-n-propylamine		NR		NR		NR						
67-72-1	Hexachloroethane		NR		NR		NR						
98-95-3	Nitrobenzene		NR		NR		NR						
78-59-1	Isophorone		NR		NR		NR						
88-75-5	2-Nitrophenol		NR		NR		NR						
105-67-9	2,4-Dimethylphenol		NR		NR		NR						
65-85-0	Benzoic acid		NR		NR		NR						
111-91-1	bis(2-Chloroethoxy)methane		NR		NR		NR						
120-83-2	2,4-Dichlorophenol		NR		NR		NR						
120-82-1	1,2,4-Trichlorobenzene		NR		NR		NR						
106-47-8	4-Chloroaniline		NR		NR		NR						
87-68-3	Hexachlorobutadiene		NR		NR		NR						
59-50-7	4-Chloro-3-methylphenol		NR		NR		NR						
91-57-6	2-Methylnaphthalene		NR		NR		NR						
77-47-4	Hexachlorocyclopentadiene		NR		NR		NR						
88-06-2	2,4,6-Trichlorophenol		NR		NR		NR						
95-95-4	2,4,5-Trichlorophenol		NR		NR		NR						
91-58-7	2-Chloronaphthalene		NR		NR		NR						
88-74-4	2-Nitroaniline		NR		NR		NR						
131-11-3	Dimethyl phthalate		NR		NR		NR						
208-96-8	Acenaphthylene		NR		NR		NR						

FDS CAR ADDENDUM
AREA 19
DPT GROUNDWATER RESULTS

SW846-SVOA							
	SAMPLE ID ------->	F19-G-P010-01	F19-G-P011-01	F19-G-P012-01			
	ORIGINAL ID ----->	F19GP01001	F19GP01101	F19GP01201			
	LAB SAMPLE ID --->	38464.02	38464.03	38464.04			
	ID FROM REPORT -->	F19GP01001	F19GP01101	F19GP01201			
	SAMPLE DATE ----->	05/10/99	05/10/99	05/10/99			
	DATE EXTRACTED -->	05/12/99	05/12/99	05/12/99			
	DATE ANALYZED --->	05/18/99	05/18/99	05/18/99			
	MATRIX ---------->	Water	Water	Water			
	UNITS ---------->	UG/L	UG/L	UG/L			
CAS #	Parameter	38464	38464	38464			
99-09-2	3-Nitroaniline	NR	NR	NR			
83-32-9	Acenaphthene	NR	NR	NR			
51-28-5	2,4-Dinitrophenol	NR	NR	NR			
100-02-7	4-Nitrophenol	NR	NR	NR			
132-64-9	Dibenzofuran	NR	NR	NR			
121-14-2	2,4-Dinitrotoluene	NR	NR	NR			
606-20-2	2,6-Dinitrotoluene	NR	NR	NR			
84-66-2	Diethylphthalate	NR	NR	NR			
7005-72-3	4-Chlorophenylphenylether	NR	NR	NR			
86-73-7	Fluorene	NR	NR	NR			
100-01-6	4-Nitroaniline	NR	NR	NR			
534-52-1	2-Methyl-4,6-Dinitrophenol	NR	NR	NR			
86-30-6	N-Nitrosodiphenylamine	NR	NR	NR			
101-55-3	4-Bromophenyl-phenylether	NR	NR	NR			
118-74-1	Hexachlorobenzene	NR	NR	NR			
87-86-5	Pentachlorophenol	NR	NR	NR			
85-01-8	Phenanthrene	NR	NR	NR			
120-12-7	Anthracene	NR	NR	NR			
84-74-2	Di-n-butylphthalate	NR	NR	NR			
206-44-0	Fluoranthene	NR	NR	NR			
129-00-0	Pyrene	NR	NR	NR			
85-68-7	Butylbenzylphthalate	NR	NR	NR			
91-94-1	3,3'-Dichlorobenzidine	NR	NR	NR			
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	NR	NR	NR			
117-84-0	Di-n-octyl phthalate	NR	NR	NR			
50-32-8	Benzo(a)pyrene	NR	NR	NR			
193-39-5	Indeno(1,2,3-cd)pyrene	NR	NR	NR			
53-70-3	Dibenz(a,h)anthracene	NR	NR	NR			
191-24-2	Benzo(g,h,i)perylene	NR	NR	NR			

FDS CAR ADDENDUM
AREA 19
DPT GROUNDWATER RESULTS

SW-SVOA																			
	SAMPLE ID ------->	F19-G-P013-01		F19-G-P014-01		F19-G-P015-01		F19-G-P016-01		F19-G-P017-01		F19-G-P018-01	
	ORIGINAL ID ----->	F19GP01301		F19GP01401		F19GP01501		F19GP01601		F19GP01701		F19GP01801	
	LAB SAMPLE ID --->	39154.05		39154.06		39194.07		39194.06		39194.05		39194.04	
	ID FROM REPORT -->	F19GP01301		F19GP01401		F19GP01501		F19GP01601		F19GP01701		F19GP01801	
	SAMPLE DATE ----->	06/24/99		06/24/99		06/28/99		06/28/99		06/28/99		06/28/99	
	DATE EXTRACTED -->	06/26/99		06/26/99		06/30/99		06/30/99		06/30/99		06/30/99	
	DATE ANALYZED --->	06/30/99		07/02/99		07/02/99		07/02/99		07/02/99		07/02/99	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	39154		39154		39194		39194		39194		39194	
132-64-9	Dibenzofuran	22.		8.	J	42.	J	10.	U	12.	U	17.	
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
86-73-7	Fluorene	40.		16.		130.		20.		2.	J	24.	
100-01-6	4-Nitroaniline	25.	U	25.	U	120.	U	25.	U	31.	U	25.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	25.	U	25.	U	120.	U	25.	U	31.	U	25.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
87-86-5	Pentachlorophenol	25.	U	25.	U	120.	U	25.	U	31.	U	25.	U
85-01-8	Phenanthrene	73.		28.		240.		26.		2.	J	48.	
120-12-7	Anthracene	10.	U	10.	U	50.	U	10.	U	12.	U	10.	
84-74-2	Di-n-butylphthalate	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
206-44-0	Fluoranthene	5.	J	2.	J	50.	U	10.	U	12.	U	22.	
129-00-0	Pyrene	9.	J	3.	J	50.	U	3.	J	12.	U	17.	
85-68-7	Butylbenzylphthalate	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
56-55-3	Benzo(a)anthracene	5.	J	1.	J	50.	U	0.8	J	12.	U	5.	J
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	3.	JB	5.	JB	50.	U	1.	JB	2.	JB	0.7	JB
218-01-9	Chrysene	8.	J	2.	J	11.	J	1.	J	12.	U	7.	J
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
205-99-2	Benzo(b)fluoranthene	2.	J	10.	U	50.	U	0.7	J	12.	U	2.	J
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	50.	U	10.	U	12.	U	3.	J
50-32-8	Benzo(a)pyrene	2.	J	0.6	J	50.	U	10.	U	12.	U	3.	J
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	0.8	J	10.	U	50.	U	10.	U	12.	U	10.	U

FDS CAR ADDENDUM
AREA 19
DPT GROUNDWATER RESULTS

SW-SVOA															
	SAMPLE ID ------->	F19-G-P013-01		F19-G-P014-01		F19-G-P015-01		F19-G-P016-01		F19-G-P017-01		F19-G-P018-01	
	ORIGINAL ID ----->	F19GP01301		F19GP01401		F19GP01501		F19GP01601		F19GP01701		F19GP01801	
	LAB SAMPLE ID --->	39154.05		39154.06		39194.07		39194.06		39194.05		39194.04	
	ID FROM REPORT -->	F19GP01301		F19GP01401		F19GP01501		F19GP01601		F19GP01701		F19GP01801	
	SAMPLE DATE ----->	06/24/99		06/24/99		06/28/99		06/28/99		06/28/99		06/28/99	
	DATE EXTRACTED -->	06/26/99		06/26/99		06/30/99		06/30/99		06/30/99		06/30/99	
	DATE ANALYZED --->	06/30/99		07/02/99		07/02/99		07/02/99		07/02/99		07/02/99	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	39154		39154		39194		39194		39194		39194	
108-95-2	Phenol	1.	JB	10.	U	50.	U	10.	U	12.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
65-85-0	Benzoic acid	25.	U	25.	U	120.	U	25.	U	31.	U	25.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
91-20-3	Naphthalene	100.	E	10.	U	240.		18.		12.	U	16.	
106-47-8	4-Chloroaniline	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
91-57-6	2-Methylnaphthalene	190.	E	130.	E	1300.	E	140.	E	7.	J	5.	J
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U	25.	U	120.	U	25.	U	31.	U	25.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
88-74-4	2-Nitroaniline	25.	U	25.	U	120.	U	25.	U	31.	U	25.	U
131-11-3	Dimethyl phthalate	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	50.	U	10.	U	12.	U	10.	U
99-09-2	3-Nitroaniline	25.	U	25.	U	120.	U	25.	U	31.	U	25.	U
83-32-9	Acenaphthene	24.		8.	J	50.	U	10.	U	12.	U	42.	
51-28-5	2,4-Dinitrophenol	25.	U	25.	U	120.	U	25.	U	31.	U	25.	U
100-02-7	4-Nitrophenol	25.	U	25.	U	120.	U	25.	U	31.	U	25.	U

FDS CAR ADDENDUM
AREA 19
DPT GROUNDWATER RESULTS

SW-SVOA													
		SAMPLE ID ------->	F19-G-P019-01		F19-G-P020-01								
		ORIGINAL ID ----->	F19GP01901		F19GP02001								
		LAB SAMPLE ID --->	39194.03		39194.02								
		ID FROM REPORT -->	F19GP01901		F19GP02001								
		SAMPLE DATE ----->	06/28/99		06/28/99								
		DATE EXTRACTED -->	06/30/99		06/30/99								
		DATE ANALYZED --->	07/02/99		07/02/99								
		MATRIX ---------->	Water		Water								
		UNITS ---------->	UG/L		UG/L								
CAS #	Parameter		39194		39194								
108-95-2	Phenol		15.	U	13.	U							
111-44-4	bis(2-Chloroethyl)ether		15.	U	13.	U							
95-57-8	2-Chlorophenol		15.	U	13.	U							
541-73-1	1,3-Dichlorobenzene		15.	U	13.	U							
106-46-7	1,4-Dichlorobenzene		15.	U	13.	U							
100-51-6	Benzyl alcohol		15.	U	13.	U							
95-50-1	1,2-Dichlorobenzene		15.	U	13.	U							
95-48-7	2-Methylphenol (o-Cresol)		15.	U	13.	U							
108-60-1	2,2'-oxybis(1-Chloropropane)		15.	U	13.	U							
106-44-5	4-Methylphenol (p-Cresol)		15.	U	13.	U							
621-64-7	N-Nitroso-di-n-propylamine		15.	U	13.	U							
67-72-1	Hexachloroethane		15.	U	13.	U							
98-95-3	Nitrobenzene		15.	U	13.	U							
78-59-1	Isophorone		15.	U	13.	U							
88-75-5	2-Nitrophenol		15.	U	13.	U							
105-67-9	2,4-Dimethylphenol		15.	U	12.	J							
65-85-0	Benzoic acid		38.	U	33.	U							
111-91-1	bis(2-Chloroethoxy)methane		15.	U	13.	U							
120-83-2	2,4-Dichlorophenol		15.	U	13.	U							
120-82-1	1,2,4-Trichlorobenzene		15.	U	13.	U							
91-20-3	Naphthalene		12.	J	440.	E							
106-47-8	4-Chloroaniline		15.	U	13.	U							
87-68-3	Hexachlorobutadiene		15.	U	13.	U							
59-50-7	4-Chloro-3-methylphenol		15.	U	13.	U							
91-57-6	2-Methylnaphthalene		10.	J	15.								
77-47-4	Hexachlorocyclopentadiene		15.	U	13.	U							
88-06-2	2,4,6-Trichlorophenol		15.	U	13.	U							
95-95-4	2,4,5-Trichlorophenol		38.	U	33.	U							
91-58-7	2-Chloronaphthalene		15.	U	13.	U							
88-74-4	2-Nitroaniline		38.	U	33.	U							
131-11-3	Dimethyl phthalate		15.	U	13.	U							
208-96-8	Acenaphthylene		15.	U	13.	U							
99-09-2	3-Nitroaniline		38.	U	33.	U							
83-32-9	Acenaphthene		15.	J	32.								
51-28-5	2,4-Dinitrophenol		38.	U	33.	U							
100-02-7	4-Nitrophenol		38.	U	33.	U							

FDS CAR ADDENDUM
AREA 19
DPT GROUNDWATER RESULTS

SW-SVOA													
		SAMPLE ID ------->	F19-G-P019-01		F19-G-P020-01								
		ORIGINAL ID ----->	F19GP01901		F19GP02001								
		LAB SAMPLE ID --->	39194.03		39194.02								
		ID FROM REPORT -->	F19GP01901		F19GP02001								
		SAMPLE DATE ----->	06/28/99		06/28/99								
		DATE EXTRACTED -->	06/30/99		06/30/99								
		DATE ANALYZED --->	07/02/99		07/02/99								
		MATRIX ---------->	Water		Water								
		UNITS ---------->	UG/L		UG/L								
CAS #	Parameter		39194		39194								
132-64-9	Dibenzofuran		5.	J	11.	J							
121-14-2	2,4-Dinitrotoluene		15.	U	13.	U							
606-20-2	2,6-Dinitrotoluene		15.	U	13.	U							
84-66-2	Diethylphthalate		15.	U	13.	U							
7005-72-3	4-Chlorophenylphenylether		15.	U	13.	U							
86-73-7	Fluorene		7.	J	14.								
100-01-6	4-Nitroaniline		38.	U	33.	U							
534-52-1	2-Methyl-4,6-Dinitrophenol		38.	U	33.	U							
86-30-6	N-Nitrosodiphenylamine		15.	U	13.	U							
101-55-3	4-Bromophenyl-phenylether		15.	U	13.	U							
118-74-1	Hexachlorobenzene		15.	U	13.	U							
87-86-5	Pentachlorophenol		38.	U	33.	U							
85-01-8	Phenanthrene		6.	J	20.								
120-12-7	Anthracene		1.	J	3.	J							
84-74-2	Di-n-butylphthalate		15.	U	13.	U							
206-44-0	Fluoranthene		1.	J	6.	J							
129-00-0	Pyrene		15.	U	6.	J							
85-68-7	Butylbenzylphthalate		15.	U	13.	U							
91-94-1	3,3'-Dichlorobenzidine		15.	U	13.	U							
56-55-3	Benzo(a)anthracene		15.	U	2.	J							
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)		1.	JB	2.	JB							
218-01-9	Chrysene		15.	U	3.	J							
117-84-0	Di-n-octyl phthalate		15.	U	13.	U							
205-99-2	Benzo(b)fluoranthene		15.	U	2.	J							
207-08-9	Benzo(k)fluoranthene		15.	U	2.	J							
50-32-8	Benzo(a)pyrene		15.	U	13.	U							
193-39-5	Indeno(1,2,3-cd)pyrene		15.	U	13.	U							
53-70-3	Dibenz(a,h)anthracene		15.	U	13.	U							
191-24-2	Benzo(g,h,i)perylene		15.	U	13.	U							

FDS CAR ADDENDUM
AREA 19
MONITORING WELL RESULTS

SW-SVOA															
	SAMPLE ID ------->	FDS-G-W19A-01		FDS-H-W19A-01 RE		FDS-G-W19B-01		FDS-G-W19C-01		FDS-G-W19D-01		FDS-G-W19E-01	
	ORIGINAL ID ----->	FDSGW19A01		FDSHW19A01		FDSGW19B01		FDSGW19C01		FDSGW19D01		FDSGW19E01	
	LAB SAMPLE ID --->	41237.01		41237.02		41253.05		41253.04		41253.03		41253.01	
	ID FROM REPORT -->	FDSGW19A01		FDSHW19A01		FDSGW19B01		FDSGW19C01		FDSGW19D01		FDSGW19E01	
	SAMPLE DATE ----->	11/29/99		11/29/99		11/30/99		11/30/99		11/30/99		11/30/99	
	DATE EXTRACTED -->	11/30/99		12/06/99		12/01/99		12/01/99		12/01/99		12/01/99	
	DATE ANALYZED --->	12/03/99		12/07/99		12/07/99		12/07/99		12/07/99		12/07/99	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	41237	VAL	41237	VAL	41253	VAL	41253	VAL	41253	VAL	41253	VAL
108-95-2	Phenol	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	6.	J	12.	J	19.	J	6.	J	6.	J	6.	J
111-91-1	bis(2-Chloroethoxy)methane	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U	46.	U	25.	U	25.	U	25.	U	25.	U
91-58-7	2-Chloronaphthalene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	25.	U	46.	U	25.	U	25.	U	25.	U	25.	U
131-11-3	Dimethyl phthalate	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	25.	U	46.	U	25.	U	25.	U	25.	U	25.	U
83-32-9	Acenaphthene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	25.	U	46.	UJ	25.	UJ	25.	UJ	25.	UJ	25.	UJ
100-02-7	4-Nitrophenol	25.	U	46.	U	25.	U	25.	U	25.	U	25.	U

FDS CAR ADDENDUM
AREA 19
MONITORING WELL RESULTS

SW-SVOA															
	SAMPLE ID ------->	FDS-G-W19A-01		FDS-H-W19A-01 RE		FDS-G-W19B-01		FDS-G-W19C-01		FDS-G-W19D-01		FDS-G-W19E-01	
	ORIGINAL ID ----->	FDSGW19A01		FDSHW19A01		FDSGW19B01		FDSGW19C01		FDSGW19D01		FDSGW19E01	
	LAB SAMPLE ID --->	41237.01		41237.02		41253.05		41253.04		41253.03		41253.01	
	ID FROM REPORT -->	FDSGW19A01		FDSHW19A01		FDSGW19B01		FDSGW19C01		FDSGW19D01		FDSGW19E01	
	SAMPLE DATE ----->	11/29/99		11/29/99		11/30/99		11/30/99		11/30/99		11/30/99	
	DATE EXTRACTED -->	11/30/99		12/06/99		12/01/99		12/01/99		12/01/99		12/01/99	
	DATE ANALYZED --->	12/03/99		12/07/99		12/07/99		12/07/99		12/07/99		12/07/99	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	41237	VAL	41237	VAL	41253	VAL	41253	VAL	41253	VAL	41253	VAL
132-64-9	Dibenzofuran	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	25.	U	46.	U	25.	U	25.	U	25.	U	25.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	25.	U	46.	U	25.	U	25.	U	25.	U	25.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	25.	U	46.	U	25.	U	25.	U	25.	U	25.	U
85-01-8	Phenanthrene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	1.	J	18.	U	1.	J	1.	J	10.	U	1.	J
206-44-0	Fluoranthene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	18.	U	1.	J	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
56-55-3	Benzo(a)anthracene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	18.	U	41.		10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octyl phthalate	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	18.	U	10.	U	10.	U	10.	U	10.	U

FDS CAR ADDENDUM
AREA 19
MONITORING WELL RESULTS

SW-SVOA									
	SAMPLE ID ------->	FDS-G-W19F-01		FDS-G-W19G-01 RE					
	ORIGINAL ID ----->	FDSGW19F01		FDSGW19G01					
	LAB SAMPLE ID --->	41237.04		41237.05					
	ID FROM REPORT -->	FDSGW19F01		FDSGW19G01					
	SAMPLE DATE ----->	11/29/99		11/29/99					
	DATE EXTRACTED -->	11/30/99		12/06/99					
	DATE ANALYZED --->	12/03/99		12/08/99					
	MATRIX ---------->	Water		Water					
	UNITS ---------->	UG/L		UG/L					
CAS #	Parameter	41237	VAL	41237	VAL				
108-95-2	Phenol	10.	U	13.	U				
111-44-4	bis(2-Chloroethyl)ether	10.	U	13.	U				
95-57-8	2-Chlorophenol	10.	U	13.	U				
541-73-1	1,3-Dichlorobenzene	10.	U	13.	U				
106-46-7	1,4-Dichlorobenzene	10.	U	13.	U				
100-51-6	Benzyl alcohol	10.	U	13.	U				
95-50-1	1,2-Dichlorobenzene	10.	U	13.	U				
95-48-7	2-Methylphenol (o-Cresol)	10.	U	13.	U				
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	13.	U				
106-44-5	4-Methylphenol (p-Cresol)	10.	U	13.	U				
621-64-7	N-Nitroso-di-n-propylamine	10.	U	13.	U				
67-72-1	Hexachloroethane	10.	U	13.	U				
98-95-3	Nitrobenzene	10.	U	13.	U				
78-59-1	Isophorone	10.	U	13.	U				
88-75-5	2-Nitrophenol	10.	U	13.	U				
105-67-9	2,4-Dimethylphenol	10.	U	13.	U				
65-85-0	Benzoic acid	10.	U	8.	J				
111-91-1	bis(2-Chloroethoxy)methane	10.	U	13.	U				
120-83-2	2,4-Dichlorophenol	10.	U	13.	U				
120-82-1	1,2,4-Trichlorobenzene	10.	U	13.	U				
91-20-3	Naphthalene	10.	U	13.	U				
106-47-8	4-Chloroaniline	10.	U	13.	U				
87-68-3	Hexachlorobutadiene	10.	U	13.	U				
59-50-7	4-Chloro-3-methylphenol	10.	U	13.	U				
91-57-6	2-Methylnaphthalene	10.	U	13.	U				
77-47-4	Hexachlorocyclopentadiene	10.	U	13.	U				
88-06-2	2,4,6-Trichlorophenol	10.	U	13.	U				
95-95-4	2,4,5-Trichlorophenol	25.	U	32.	U				
91-58-7	2-Chloronaphthalene	10.	U	13.	U				
88-74-4	2-Nitroaniline	25.	U	32.	U				
131-11-3	Dimethyl phthalate	10.	U	13.	U				
208-96-8	Acenaphthylene	10.	U	13.	U				
99-09-2	3-Nitroaniline	25.	U	32.	U				
83-32-9	Acenaphthene	10.	U	13.	U				
51-28-5	2,4-Dinitrophenol	25.	U	32.	UJ				
100-02-7	4-Nitrophenol	25.	U	32.	U				

FDS CAR ADDENDUM
AREA 19
MONITORING WELL RESULTS

SW-SVOA									
	SAMPLE ID ------->	FDS-G-W19F-01		FDS-G-W19G-01 RE					
	ORIGINAL ID ----->	FDSGW19F01		FDSGW19G01					
	LAB SAMPLE ID --->	41237.04		41237.05					
	ID FROM REPORT -->	FDSGW19F01		FDSGW19G01					
	SAMPLE DATE ----->	11/29/99		11/29/99					
	DATE EXTRACTED -->	11/30/99		12/06/99					
	DATE ANALYZED --->	12/03/99		12/08/99					
	MATRIX ---------->	Water		Water					
	UNITS ---------->	UG/L		UG/L					
CAS #	Parameter	41237	VAL	41237	VAL				
132-64-9	Dibenzofuran	10.	U	13.	U				
121-14-2	2,4-Dinitrotoluene	10.	U	13.	U				
606-20-2	2,6-Dinitrotoluene	10.	U	13.	U				
84-66-2	Diethylphthalate	10.	U	13.	U				
7005-72-3	4-Chlorophenylphenylether	10.	U	13.	U				
86-73-7	Fluorene	10.	U	13.	U				
100-01-6	4-Nitroaniline	25.	U	32.	U				
534-52-1	2-Methyl-4,6-Dinitrophenol	25.	U	32.	U				
86-30-6	N-Nitrosodiphenylamine	10.	U	13.	U				
101-55-3	4-Bromophenyl-phenylether	10.	U	13.	U				
118-74-1	Hexachlorobenzene	10.	U	13.	U				
87-86-5	Pentachlorophenol	25.	U	32.	U				
85-01-8	Phenanthrene	10.	U	13.	U				
120-12-7	Anthracene	10.	U	13.	U				
84-74-2	Di-n-butylphthalate	1.	J	13.	U				
206-44-0	Fluoranthene	10.	U	13.	U				
129-00-0	Pyrene	10.	U	13.	U				
85-68-7	Butylbenzylphthalate	10.	U	13.	U				
91-94-1	3,3'-Dichlorobenzidine	10.	U	13.	U				
56-55-3	Benzo(a)anthracene	10.	U	13.	U				
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	13.	U				
218-01-9	Chrysene	10.	U	13.	U				
117-84-0	Di-n-octyl phthalate	10.	U	13.	U				
205-99-2	Benzo(b)fluoranthene	10.	U	13.	U				
207-08-9	Benzo(k)fluoranthene	10.	U	13.	U				
50-32-8	Benzo(a)pyrene	10.	U	13.	U				
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	13.	U				
53-70-3	Dibenz(a,h)anthracene	10.	U	13.	U				
191-24-2	Benzo(g,h,i)perylene	10.	U	13.	U				

FDS CAR ADDENDUM
AREA 19
MONITORING WELL RESULTS

SW846META													
	SAMPLE ID ------->	FDS-G-W19A-01		FDS-H-W19A-01		FDS-G-W19B-01		FDS-G-W19C-01		FDS-G-W19D-01		FDS-G-W19E-01	
	ORIGINAL ID ----->	FDSGW19A01		FDSHW19A01		FDSGW19B01		FDSGW19C01		FDSGW19D01		FDSGW19E01	
	LAB SAMPLE ID --->	41237.01		41237.02		41253.05		41253.04		41253.03		41253.01	
	ID FROM REPORT -->	FDSGW19A01		FDSHW19A01		FDSGW19B01		FDSGW19C01		FDSGW19D01		FDSGW19E01	
	SAMPLE DATE ----->	11/29/99		11/29/99		11/30/99		11/30/99		11/30/99		11/30/99	
	DATE EXTRACTED -->	12/02/99		12/02/99		12/02/99		12/02/99		12/02/99		12/02/99	
	DATE ANALYZED --->	12/02/99		12/02/99		12/02/99		12/02/99		12/02/99		12/02/99	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	41237	VAL	41237	VAL	41253	VAL	41253	VAL	41253	VAL	41253	VAL
7439-97-6	Mercury (Hg)	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7440-38-2	Arsenic (As)	14.	J	12.4	J	8.2	J	4.1	J	17.	J	3.3	J
7440-39-3	Barium (Ba)	292.		294.		217.		46.7		42.7		46.2	
7440-43-9	Cadmium (Cd)	0.34	U	0.3	U	0.3	U	0.43	U	0.3	U	0.3	U
7440-47-3	Chromium (Cr)	0.81	J	0.64	J	1.9	J	2.7	J	1.	J	1.5	J
7439-92-1	Lead (Pb)	2.1	U	2.1	U	2.1	U	4.9		2.1	U	2.1	U
7782-49-2	Selenium (Se)	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U
7440-22-4	Silver (Ag)	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U

FDS CAR ADDENDUM
AREA 19
MONITORING WELL RESULTS

SW846META								
	SAMPLE ID ------->	FDS-G-W19F-01		FDS-G-W19G-01				
	ORIGINAL ID ----->	FDSGW19F01		FDSGW19G01				
	LAB SAMPLE ID --->	41237.04		41237.05				
	ID FROM REPORT -->	FDSGW19F01		FDSGW19G01				
	SAMPLE DATE ----->	11/29/99		11/29/99				
	DATE EXTRACTED -->	12/02/99		12/02/99				
	DATE ANALYZED --->	12/02/99		12/02/99				
	MATRIX ---------->	Water		Water				
	UNITS ---------->	UG/L		UG/L				
CAS #	Parameter	41237	VAL	41237	VAL			
7439-97-6	Mercury (Hg)	0.1	U	0.1	U			
7440-38-2	Arsenic (As)	20.6	J	5.2	J			
7440-39-3	Barium (Ba)	81.8		32.6	J			
7440-43-9	Cadmium (Cd)	0.32	U	0.43	U			
7440-47-3	Chromium (Cr)	3.1	J	6.7	J			
7439-92-1	Lead (Pb)	3.2		2.1	U			
7782-49-2	Selenium (Se)	2.9	U	2.9	U			
7440-22-4	Silver (Ag)	2.	U	2.	U			

FDS CAR ADDENDUM
AREA 19
MONITORING WELL RESULTS

SW846VOA													
	SAMPLE ID ------->	FDS-G-W19A-01		FDS-H-W19A-01		FDS-G-W19B-01		FDS-G-W19C-01		FDS-G-W19D-01		FDS-G-W19E-01	
	ORIGINAL ID ----->	FDSGW19A01		FDSHW19A01		FDSGW19B01		FDSGW19C01		FDSGW19D01		FDSGW19E01	
	LAB SAMPLE ID --->	41237.01		41237.02		41253.05		41253.04		41253.03		41253.01	
	ID FROM REPORT -->	FDSGW19A01		FDSHW19A01		FDSGW19B01		FDSGW19C01		FDSGW19D01		FDSGW19E01	
	SAMPLE DATE ----->	11/29/99		11/29/99		11/30/99		11/30/99		11/30/99		11/30/99	
	DATE ANALYZED --->	12/08/99		12/08/99		12/08/99		12/08/99		12/08/99		12/08/99	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	41237	VAL	41237	VAL	41253	VAL	41253	VAL	41253	VAL	41253	VAL
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
106-93-4	1, 2-Dibromoethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1634-04-4	Methyl tert-butyl ether	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U

*** Validation Complete ***

FDS CAR ADDENDUM
AREA 19
MONITORING WELL RESULTS

SW846VOA								
	SAMPLE ID ------->	FDS-G-W19F-01		FDS-G-W19G-01				
	ORIGINAL ID ----->	FDSGW19F01		FDSGW19G01				
	LAB SAMPLE ID --->	41237.04		41237.05				
	ID FROM REPORT -->	FDSGW19F01		FDSGW19G01				
	SAMPLE DATE ----->	11/29/99		11/29/99				
	DATE ANALYZED --->	12/08/99		12/08/99				
	MATRIX ---------->	Water		Water				
	UNITS ---------->	UG/L		UG/L				
CAS #	Parameter	41237	VAL	41237	VAL			
71-43-2	Benzene	5.	U	5.	U			
106-93-4	1, 2-Dibromoethane	5.	U	5.	U			
100-41-4	Ethylbenzene	5.	U	5.	U			
108-88-3	Toluene	5.	U	5.	U			
1634-04-4	Methyl tert-butyl ether	5.	U	5.	U			
1330-20-7	Xylene (Total)	5.	U	5.	U			

FDS CAR ADDENDUM
AREA 19
DPT GROUNDWATER RESULTS

SW846-SVOA							
	SAMPLE ID ------->	F19-G-P001-01	F19-G-P002-01	F19-G-P003-01	F19-G-P004-01	F19-G-P005-01	F19-G-P009-01
	ORIGINAL ID ----->	F19GP00101	F19GP00201	F19GP00301	F19GP00401	F19GP00501	F19GP00901
	LAB SAMPLE ID --->	38036.01	38036.02	38036.04	38036.05	38036.03	38464.01
	ID FROM REPORT -->	F19GP00101	F19GP00201	F19GP00301	F19GP00401	F19GP00501	F19GP00901
	SAMPLE DATE ----->	04/12/99	04/12/99	04/12/99	04/12/99	04/12/99	05/10/99
	DATE EXTRACTED -->	04/13/99	04/13/99	04/13/99	04/13/99	04/13/99	05/12/99
	DATE ANALYZED --->	04/22/99	04/20/99	04/22/99	04/22/99	04/22/99	05/18/99
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
CAS #	Parameter	38036	38036	38036	38036	38036	38464
99-09-2	3-Nitroaniline	NR	NR	NR	NR	NR	NR
83-32-9	Acenaphthene	NR	NR	NR	NR	NR	NR
51-28-5	2,4-Dinitrophenol	NR	NR	NR	NR	NR	NR
100-02-7	4-Nitrophenol	NR	NR	NR	NR	NR	NR
132-64-9	Dibenzofuran	NR	NR	NR	NR	NR	NR
121-14-2	2,4-Dinitrotoluene	NR	NR	NR	NR	NR	NR
606-20-2	2,6-Dinitrotoluene	NR	NR	NR	NR	NR	NR
84-66-2	Diethylphthalate	NR	NR	NR	NR	NR	NR
7005-72-3	4-Chlorophenylphenylether	NR	NR	NR	NR	NR	NR
86-73-7	Fluorene	NR	NR	NR	NR	NR	NR
100-01-6	4-Nitroaniline	NR	NR	NR	NR	NR	NR
534-52-1	2-Methyl-4,6-Dinitrophenol	NR	NR	NR	NR	NR	NR
86-30-6	N-Nitrosodiphenylamine	NR	NR	NR	NR	NR	NR
101-55-3	4-Bromophenyl-phenylether	NR	NR	NR	NR	NR	NR
118-74-1	Hexachlorobenzene	NR	NR	NR	NR	NR	NR
87-86-5	Pentachlorophenol	NR	NR	NR	NR	NR	NR
85-01-8	Phenanthrene	NR	NR	NR	NR	NR	NR
120-12-7	Anthracene	NR	NR	NR	NR	NR	NR
84-74-2	Di-n-butylphthalate	NR	NR	NR	NR	NR	NR
206-44-0	Fluoranthene	NR	NR	NR	NR	NR	NR
129-00-0	Pyrene	NR	NR	NR	NR	NR	NR
85-68-7	Butylbenzylphthalate	NR	NR	NR	NR	NR	NR
91-94-1	3,3'-Dichlorobenzidine	NR	NR	NR	NR	NR	NR
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	NR	NR	NR	NR	NR	NR
117-84-0	Di-n-octyl phthalate	NR	NR	NR	NR	NR	NR
50-32-8	Benzo(a)pyrene	NR	NR	NR	NR	NR	NR
193-39-5	Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	NR
53-70-3	Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	NR
191-24-2	Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	NR

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-VOA													
	SAMPLE ID ------->	F20-S-P001-11		F20-S-P002-06		F20-S-P003-08		F20-S-P004-03		F20-S-P005-11		F20-S-P006-06	
	ORIGINAL ID ----->	F20SP00111		F20SP00206		F20SP00308		F20SP00403		F20SP00511		F20SP00606	
	LAB SAMPLE ID --->	37202.02		37202.03		37202.04		37297.01		37248.01		37261.01	
	ID FROM REPORT -->	F20SP00111		F20SP00206		F20SP00308		F20SP00403		F20SP00511		F20SP00606	
	SAMPLE DATE ----->	01/22/99		01/22/99		01/22/99		01/29/99		01/26/99		01/27/99	
	DATE ANALYZED --->	01/27/99		01/27/99		01/27/99		02/02/99		01/29/99		02/02/99	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	37202		37202		37202		37297		37248		37261	
71-43-2	Benzene	6.	U	5.	U	6.	U	5.	U	6.	U	5.	U
100-41-4	Ethylbenzene	6.	U	5.	U	6.	U	5.	U	6.	U	5.	U
108-88-3	Toluene	6.	U	5.	U	6.	U	5.	U	6.	U	5.	U
1330-20-7	Xylene (Total)	1.	J	5.	U	6.	U	5.	U	6.	U	5.	U
74-87-3	Chloromethane	NR		NR		NR		NR		NR		NR	
74-83-9	Bromomethane	NR		NR		NR		NR		NR		NR	
75-01-4	Vinyl chloride	NR		NR		NR		NR		NR		NR	
75-00-3	Chloroethane	NR		NR		NR		NR		NR		NR	
75-09-2	Methylene chloride	NR		NR		NR		NR		NR		NR	
67-64-1	Acetone	NR		NR		NR		NR		NR		NR	
75-15-0	Carbon disulfide	NR		NR		NR		NR		NR		NR	
75-35-4	1,1-Dichloroethene	NR		NR		NR		NR		NR		NR	
75-34-3	1,1-Dichloroethane	NR		NR		NR		NR		NR		NR	
540-59-0	1,2-Dichloroethene (total)	NR		NR		NR		NR		NR		NR	
67-66-3	Chloroform	NR		NR		NR		NR		NR		NR	
107-06-2	1,2-Dichloroethane	NR		NR		NR		NR		NR		NR	
78-93-3	2-Butanone (MEK)	NR		NR		NR		NR		NR		NR	
71-55-6	1,1,1-Trichloroethane	NR		NR		NR		NR		NR		NR	
56-23-5	Carbon tetrachloride	NR		NR		NR		NR		NR		NR	
108-05-4	Vinyl acetate	NR		NR		NR		NR		NR		NR	
75-27-4	Bromodichloromethane	NR		NR		NR		NR		NR		NR	
78-87-5	1,2-Dichloropropane	NR		NR		NR		NR		NR		NR	
10061-01-5	cis-1,3-Dichloropropene	NR		NR		NR		NR		NR		NR	
79-01-6	Trichloroethene	NR		NR		NR		NR		NR		NR	
124-48-1	Dibromochloromethane	NR		NR		NR		NR		NR		NR	
79-00-5	1,1,2-Trichloroethane	NR		NR		NR		NR		NR		NR	
10061-02-6	trans-1,3-Dichloropropene	NR		NR		NR		NR		NR		NR	
75-25-2	Bromoform	NR		NR		NR		NR		NR		NR	
108-10-1	4-Methyl-2-Pentanone (MIBK)	NR		NR		NR		NR		NR		NR	
591-78-6	2-Hexanone	NR		NR		NR		NR		NR		NR	
127-18-4	Tetrachloroethene	NR		NR		NR		NR		NR		NR	
79-34-5	1,1,2,2-Tetrachloroethane	NR		NR		NR		NR		NR		NR	
108-90-7	Chlorobenzene	NR		NR		NR		NR		NR		NR	
100-42-5	Styrene	NR		NR		NR		NR		NR		NR	
110-75-8	2-Chloroethyl vinyl ether	NR		NR		NR		NR		NR		NR	

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-VOA	SAMPLE ID ------->	F20-S-P007-19	F20-S-P009-21	F20-S-P010-02	F20-S-P012-10	F20-S-P013-09	F20-S-P014-04
	ORIGINAL ID ----->	F20SP00719	F20SP00921	F20SP01002	F20SP01210	F20SP01309	F20SP01404
	LAB SAMPLE ID --->	37248.02	37261.04	37261.02	37261.05	37261.06	37281.01
	ID FROM REPORT -->	F20SP00719	F20SP00921	F20SP01002	F20SP01210	F20SP01309	F20SP01404
	SAMPLE DATE ----->	01/26/99	01/27/99	01/27/99	01/27/99	01/27/99	01/28/99
	DATE ANALYZED --->	01/29/99	02/02/99	02/03/99	02/02/99	02/03/99	02/02/99
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
CAS #	Parameter	37248	37261	37261	37261	37261	37281
71-43-2	Benzene	7. U	6. U	5. U	5. U	6. U	38.
100-41-4	Ethylbenzene	7. U	6. U	5. U	5. U	6. U	11.
108-88-3	Toluene	7. U	6. U	5. U	5. U	6. U	1. J
1330-20-7	Xylene (Total)	7. U	6. U	5. U	5. U	6. U	13.
74-87-3	Chloromethane	NR	NR	NR	NR	NR	NR
74-83-9	Bromomethane	NR	NR	NR	NR	NR	NR
75-01-4	Vinyl chloride	NR	NR	NR	NR	NR	NR
75-00-3	Chloroethane	NR	NR	NR	NR	NR	NR
75-09-2	Methylene chloride	NR	NR	NR	NR	NR	NR
67-64-1	Acetone	NR	NR	NR	NR	NR	NR
75-15-0	Carbon disulfide	NR	NR	NR	NR	NR	NR
75-35-4	1,1-Dichloroethene	NR	NR	NR	NR	NR	NR
75-34-3	1,1-Dichloroethane	NR	NR	NR	NR	NR	NR
540-59-0	1,2-Dichloroethene (total)	NR	NR	NR	NR	NR	NR
67-66-3	Chloroform	NR	NR	NR	NR	NR	NR
107-06-2	1,2-Dichloroethane	NR	NR	NR	NR	NR	NR
78-93-3	2-Butanone (MEK)	NR	NR	NR	NR	NR	NR
71-55-6	1,1,1-Trichloroethane	NR	NR	NR	NR	NR	NR
56-23-5	Carbon tetrachloride	NR	NR	NR	NR	NR	NR
108-05-4	Vinyl acetate	NR	NR	NR	NR	NR	NR
75-27-4	Bromodichloromethane	NR	NR	NR	NR	NR	NR
78-87-5	1,2-Dichloropropane	NR	NR	NR	NR	NR	NR
10061-01-5	cis-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR
79-01-6	Trichloroethene	NR	NR	NR	NR	NR	NR
124-48-1	Dibromochloromethane	NR	NR	NR	NR	NR	NR
79-00-5	1,1,2-Trichloroethane	NR	NR	NR	NR	NR	NR
10061-02-6	trans-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR
75-25-2	Bromoform	NR	NR	NR	NR	NR	NR
108-10-1	4-Methyl-2-Pentanone (MIBK)	NR	NR	NR	NR	NR	NR
591-78-6	2-Hexanone	NR	NR	NR	NR	NR	NR
127-18-4	Tetrachloroethene	NR	NR	NR	NR	NR	NR
79-34-5	1,1,2,2-Tetrachloroethane	NR	NR	NR	NR	NR	NR
108-90-7	Chlorobenzene	NR	NR	NR	NR	NR	NR
100-42-5	Styrene	NR	NR	NR	NR	NR	NR
110-75-8	2-Chloroethyl vinyl ether	NR	NR	NR	NR	NR	NR

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-VOA													
	SAMPLE ID ------->	F20-S-P015-09		F20-S-P016-09		F20-S-P017-09		F20-S-P019-06		F20-S-P020-06		F20-S-P021-06	
	ORIGINAL ID ----->	F20SP01509		F20SP01609		F20SP01709		F20SP01906		F20SP02006		F20SP02106	
	LAB SAMPLE ID --->	37281.02		37281.03		37261.03		38434.14		38434.13		38434.12	
	ID FROM REPORT -->	F20SP01509		F20SP01609		F20SP01709		F20SP01906		F20SP02006		F20SP02106	
	SAMPLE DATE ----->	01/28/99		01/28/99		01/27/99		05/07/99		05/07/99		05/07/99	
	DATE ANALYZED --->	02/02/99		02/03/99		02/02/99		05/11/99		05/10/99		05/11/99	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	37281		37281		37261		38434		38434		38434	
71-43-2	Benzene	11.	U	10.	U	6.	U	6.	U	5.	U	6.	U
100-41-4	Ethylbenzene	11.	U	10.	U	6.	U	6.	U	5.	U	6.	U
108-88-3	Toluene	11.	U	10.	U	6.	U	6.	U	5.	U	2.	J
1330-20-7	Xylene (Total)	11.	U	10.	U	6.	U	6.	U	5.	U	6.	U
74-87-3	Chloromethane	NR		NR		NR		NR		NR		NR	
74-83-9	Bromomethane	NR		NR		NR		NR		NR		NR	
75-01-4	Vinyl chloride	NR		NR		NR		NR		NR		NR	
75-00-3	Chloroethane	NR		NR		NR		NR		NR		NR	
75-09-2	Methylene chloride	NR		NR		NR		NR		NR		NR	
67-64-1	Acetone	NR		NR		NR		NR		NR		NR	
75-15-0	Carbon disulfide	NR		NR		NR		NR		NR		NR	
75-35-4	1,1-Dichloroethene	NR		NR		NR		NR		NR		NR	
75-34-3	1,1-Dichloroethane	NR		NR		NR		NR		NR		NR	
540-59-0	1,2-Dichloroethene (total)	NR		NR		NR		NR		NR		NR	
67-66-3	Chloroform	NR		NR		NR		NR		NR		NR	
107-06-2	1,2-Dichloroethane	NR		NR		NR		NR		NR		NR	
78-93-3	2-Butanone (MEK)	NR		NR		NR		NR		NR		NR	
71-55-6	1,1,1-Trichloroethane	NR		NR		NR		NR		NR		NR	
56-23-5	Carbon tetrachloride	NR		NR		NR		NR		NR		NR	
108-05-4	Vinyl acetate	NR		NR		NR		NR		NR		NR	
75-27-4	Bromodichloromethane	NR		NR		NR		NR		NR		NR	
78-87-5	1,2-Dichloropropane	NR		NR		NR		NR		NR		NR	
10061-01-5	cis-1,3-Dichloropropene	NR		NR		NR		NR		NR		NR	
79-01-6	Trichloroethene	NR		NR		NR		NR		NR		NR	
124-48-1	Dibromochloromethane	NR		NR		NR		NR		NR		NR	
79-00-5	1,1,2-Trichloroethane	NR		NR		NR		NR		NR		NR	
10061-02-6	trans-1,3-Dichloropropene	NR		NR		NR		NR		NR		NR	
75-25-2	Bromoform	NR		NR		NR		NR		NR		NR	
108-10-1	4-Methyl-2-Pentanone (MIBK)	NR		NR		NR		NR		NR		NR	
591-78-6	2-Hexanone	NR		NR		NR		NR		NR		NR	
127-18-4	Tetrachloroethene	NR		NR		NR		NR		NR		NR	
79-34-5	1,1,2,2-Tetrachloroethane	NR		NR		NR		NR		NR		NR	
108-90-7	Chlorobenzene	NR		NR		NR		NR		NR		NR	
100-42-5	Styrene	NR		NR		NR		NR		NR		NR	
110-75-8	2-Chloroethyl vinyl ether	NR		NR		NR		NR		NR		NR	

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-VOA													
	SAMPLE ID ------->	F20-S-P022-04		F20-S-P023-07		F20-S-P024-07		F20-S-P025-05		F20-S-P026-08		F20-S-P027-08	
	ORIGINAL ID ----->	F20SP02204		F20SP02307		F20SP02407		F20SP02505		F20SP02608		F20SP02708	
	LAB SAMPLE ID --->	38434.15		38434.19		38434.18		38434.16		38434.17		38434.11	
	ID FROM REPORT -->	F20SP02204		F20SP02307		F20SP02407		F20SP02505		F20SP02608		F20SP02708	
	SAMPLE DATE ----->	05/07/99		05/07/99		05/07/99		05/07/99		05/07/99		05/07/99	
	DATE ANALYZED --->	05/10/99		05/11/99		05/10/99		05/10/99		05/10/99		05/10/99	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	38434		38434		38434		38434		38434		38434	
71-43-2	Benzene	5.	U	3.	J	5.	U	6.	U	6.	U	6.	U
100-41-4	Ethylbenzene	5.	U	6.	U	1.	J	6.	U	6.	U	6.	U
108-88-3	Toluene	5.	U	6.	U	5.	U	6.	U	6.	U	6.	U
1330-20-7	Xylene (Total)	5.	U	5.	J	5.	U	6.	U	6.	U	6.	U
74-87-3	Chloromethane	NR		NR		NR		NR		NR		NR	
74-83-9	Bromomethane	NR		NR		NR		NR		NR		NR	
75-01-4	Vinyl chloride	NR		NR		NR		NR		NR		NR	
75-00-3	Chloroethane	NR		NR		NR		NR		NR		NR	
75-09-2	Methylene chloride	NR		NR		NR		NR		NR		NR	
67-64-1	Acetone	NR		NR		NR		NR		NR		NR	
75-15-0	Carbon disulfide	NR		NR		NR		NR		NR		NR	
75-35-4	1,1-Dichloroethene	NR		NR		NR		NR		NR		NR	
75-34-3	1,1-Dichloroethane	NR		NR		NR		NR		NR		NR	
540-59-0	1,2-Dichloroethene (total)	NR		NR		NR		NR		NR		NR	
67-66-3	Chloroform	NR		NR		NR		NR		NR		NR	
107-06-2	1,2-Dichloroethane	NR		NR		NR		NR		NR		NR	
78-93-3	2-Butanone (MEK)	NR		NR		NR		NR		NR		NR	
71-55-6	1,1,1-Trichloroethane	NR		NR		NR		NR		NR		NR	
56-23-5	Carbon tetrachloride	NR		NR		NR		NR		NR		NR	
108-05-4	Vinyl acetate	NR		NR		NR		NR		NR		NR	
75-27-4	Bromodichloromethane	NR		NR		NR		NR		NR		NR	
78-87-5	1,2-Dichloropropane	NR		NR		NR		NR		NR		NR	
10061-01-5	cis-1,3-Dichloropropene	NR		NR		NR		NR		NR		NR	
79-01-6	Trichloroethene	NR		NR		NR		NR		NR		NR	
124-48-1	Dibromochloromethane	NR		NR		NR		NR		NR		NR	
79-00-5	1,1,2-Trichloroethane	NR		NR		NR		NR		NR		NR	
10061-02-6	trans-1,3-Dichloropropene	NR		NR		NR		NR		NR		NR	
75-25-2	Bromoform	NR		NR		NR		NR		NR		NR	
108-10-1	4-Methyl-2-Pentanone (MIBK)	NR		NR		NR		NR		NR		NR	
591-78-6	2-Hexanone	NR		NR		NR		NR		NR		NR	
127-18-4	Tetrachloroethene	NR		NR		NR		NR		NR		NR	
79-34-5	1,1,2,2-Tetrachloroethane	NR		NR		NR		NR		NR		NR	
108-90-7	Chlorobenzene	NR		NR		NR		NR		NR		NR	
100-42-5	Styrene	NR		NR		NR		NR		NR		NR	
110-75-8	2-Chloroethyl vinyl ether	NR		NR		NR		NR		NR		NR	

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-VOA								
	SAMPLE ID ------->	F20-S-P029-07		F20-S-P030-05				
	ORIGINAL ID ----->	F20SP02907		F20SP03005				
	LAB SAMPLE ID --->	38434.09		38434.10				
	ID FROM REPORT -->	F20SP02907		F20SP03005				
	SAMPLE DATE ----->	05/07/99		05/07/99				
	DATE ANALYZED --->	05/10/99		05/10/99				
	MATRIX ---------->	Soil		Soil				
	UNITS ---------->	UG/KG		UG/KG				
CAS #	Parameter	38434		38434				
71-43-2	Benzene	6.	U	6.	U			
100-41-4	Ethylbenzene	6.	U	6.	U			
108-88-3	Toluene	6.	U	2.	J			
1330-20-7	Xylene (Total)	6.	U	6.	U			
74-87-3	Chloromethane	NR		NR				
74-83-9	Bromomethane	NR		NR				
75-01-4	Vinyl chloride	NR		NR				
75-00-3	Chloroethane	NR		NR				
75-09-2	Methylene chloride	NR		NR				
67-64-1	Acetone	NR		NR				
75-15-0	Carbon disulfide	NR		NR				
75-35-4	1,1-Dichloroethene	NR		NR				
75-34-3	1,1-Dichloroethane	NR		NR				
540-59-0	1,2-Dichloroethene (total)	NR		NR				
67-66-3	Chloroform	NR		NR				
107-06-2	1,2-Dichloroethane	NR		NR				
78-93-3	2-Butanone (MEK)	NR		NR				
71-55-6	1,1,1-Trichloroethane	NR		NR				
56-23-5	Carbon tetrachloride	NR		NR				
108-05-4	Vinyl acetate	NR		NR				
75-27-4	Bromodichloromethane	NR		NR				
78-87-5	1,2-Dichloropropane	NR		NR				
10061-01-5	cis-1,3-Dichloropropene	NR		NR				
79-01-6	Trichloroethene	NR		NR				
124-48-1	Dibromochloromethane	NR		NR				
79-00-5	1,1,2-Trichloroethane	NR		NR				
10061-02-6	trans-1,3-Dichloropropene	NR		NR				
75-25-2	Bromoform	NR		NR				
108-10-1	4-Methyl-2-Pentanone (MIBK)	NR		NR				
591-78-6	2-Hexanone	NR		NR				
127-18-4	Tetrachloroethene	NR		NR				
79-34-5	1,1,2,2-Tetrachloroethane	NR		NR				
108-90-7	Chlorobenzene	NR		NR				
100-42-5	Styrene	NR		NR				
110-75-8	2-Chloroethyl vinyl ether	NR		NR				

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-SVOA													
	SAMPLE ID ------->	F20-S-P001-11		F20-S-P002-06		F20-S-P003-08		F20-S-P004-03		F20-S-P005-11		F20-S-P006-06	
	ORIGINAL ID ----->	F20SP00111		F20SP00206		F20SP00308		F20SP00403		F20SP00511		F20SP00606	
	LAB SAMPLE ID --->	37202.02		37202.03		37202.04		37297.01		37248.01		37261.01	
	ID FROM REPORT -->	F20SP00111		F20SP00206		F20SP00308		F20SP00403		F20SP00511		F20SP00606	
	SAMPLE DATE ----->	01/22/99		01/22/99		01/22/99		01/29/99		01/26/99		01/27/99	
	DATE EXTRACTED -->	01/25/99		01/25/99		01/25/99		02/02/99		01/28/99		01/29/99	
	DATE ANALYZED --->	02/04/99		02/04/99		02/04/99		02/16/99		02/11/99		02/12/99	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	37202		37202		37202		37297		37248		37261	
91-20-3	Naphthalene	390.	J	360.	U	76.	J	370.	U	440.	U	350.	U
56-55-3	Benzo(a)anthracene	1900.		360.	U	580.		60.	J	120.	J	100.	J
218-01-9	Chrysene	3200.		360.	U	1000.		64.	J	220.	J	180.	J
205-99-2	Benzo(b)fluoranthene	730.		360.	U	710.		60.	J	95.	J	95.	J
207-08-9	Benzo(k)fluoranthene	590.		360.	U	560.		43.	J	73.	J	81.	J
108-95-2	Phenol	NR		NR		NR		NR		NR		NR	
111-44-4	bis(2-Chloroethyl)ether	NR		NR		NR		NR		NR		NR	
95-57-8	2-Chlorophenol	NR		NR		NR		NR		NR		NR	
541-73-1	1,3-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
106-46-7	1,4-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
100-51-6	Benzyl alcohol	NR		NR		NR		NR		NR		NR	
95-50-1	1,2-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
95-48-7	2-Methylphenol (o-Cresol)	NR		NR		NR		NR		NR		NR	
108-60-1	2,2'-oxybis(1-Chloropropane)	NR		NR		NR		NR		NR		NR	
106-44-5	4-Methylphenol (p-Cresol)	NR		NR		NR		NR		NR		NR	
621-64-7	N-Nitroso-di-n-propylamine	NR		NR		NR		NR		NR		NR	
67-72-1	Hexachloroethane	NR		NR		NR		NR		NR		NR	
98-95-3	Nitrobenzene	NR		NR		NR		NR		NR		NR	
78-59-1	Isophorone	NR		NR		NR		NR		NR		NR	
88-75-5	2-Nitrophenol	NR		NR		NR		NR		NR		NR	
105-67-9	2,4-Dimethylphenol	NR		NR		NR		NR		NR		NR	
65-85-0	Benzoic acid	NR		NR		NR		NR		NR		NR	
111-91-1	bis(2-Chloroethoxy)methane	NR		NR		NR		NR		NR		NR	
120-83-2	2,4-Dichlorophenol	NR		NR		NR		NR		NR		NR	
120-82-1	1,2,4-Trichlorobenzene	NR		NR		NR		NR		NR		NR	
106-47-8	4-Chloroaniline	NR		NR		NR		NR		NR		NR	
87-68-3	Hexachlorobutadiene	NR		NR		NR		NR		NR		NR	
59-50-7	4-Chloro-3-methylphenol	NR		NR		NR		NR		NR		NR	
91-57-6	2-Methylnaphthalene	NR		NR		NR		NR		NR		NR	
77-47-4	Hexachlorocyclopentadiene	NR		NR		NR		NR		NR		NR	
88-06-2	2,4,6-Trichlorophenol	NR		NR		NR		NR		NR		NR	
95-95-4	2,4,5-Trichlorophenol	NR		NR		NR		NR		NR		NR	
91-58-7	2-Chloronaphthalene	NR		NR		NR		NR		NR		NR	
88-74-4	2-Nitroaniline	NR		NR		NR		NR		NR		NR	
131-11-3	Dimethyl phthalate	NR		NR		NR		NR		NR		NR	
208-96-8	Acenaphthylene	NR		NR		NR		NR		NR		NR	

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-SVOA							
	SAMPLE ID ------->	F20-S-P001-11	F20-S-P002-06	F20-S-P003-08	F20-S-P004-03	F20-S-P005-11	F20-S-P006-06
	ORIGINAL ID ----->	F20SP00111	F20SP00206	F20SP00308	F20SP00403	F20SP00511	F20SP00606
	LAB SAMPLE ID --->	37202.02	37202.03	37202.04	37297.01	37248.01	37261.01
	ID FROM REPORT -->	F20SP00111	F20SP00206	F20SP00308	F20SP00403	F20SP00511	F20SP00606
	SAMPLE DATE ----->	01/22/99	01/22/99	01/22/99	01/29/99	01/26/99	01/27/99
	DATE EXTRACTED -->	01/25/99	01/25/99	01/25/99	02/02/99	01/28/99	01/29/99
	DATE ANALYZED --->	02/04/99	02/04/99	02/04/99	02/16/99	02/11/99	02/12/99
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
CAS #	Parameter	37202	37202	37202	37297	37248	37261
99-09-2	3-Nitroaniline	NR	NR	NR	NR	NR	NR
83-32-9	Acenaphthene	NR	NR	NR	NR	NR	NR
51-28-5	2,4-Dinitrophenol	NR	NR	NR	NR	NR	NR
100-02-7	4-Nitrophenol	NR	NR	NR	NR	NR	NR
132-64-9	Dibenzofuran	NR	NR	NR	NR	NR	NR
121-14-2	2,4-Dinitrotoluene	NR	NR	NR	NR	NR	NR
606-20-2	2,6-Dinitrotoluene	NR	NR	NR	NR	NR	NR
84-66-2	Diethylphthalate	NR	NR	NR	NR	NR	NR
7005-72-3	4-Chlorophenylphenylether	NR	NR	NR	NR	NR	NR
86-73-7	Fluorene	NR	NR	NR	NR	NR	NR
100-01-6	4-Nitroaniline	NR	NR	NR	NR	NR	NR
534-52-1	2-Methyl-4,6-Dinitrophenol	NR	NR	NR	NR	NR	NR
86-30-6	N-Nitrosodiphenylamine	NR	NR	NR	NR	NR	NR
101-55-3	4-Bromophenyl-phenylether	NR	NR	NR	NR	NR	NR
118-74-1	Hexachlorobenzene	NR	NR	NR	NR	NR	NR
87-86-5	Pentachlorophenol	NR	NR	NR	NR	NR	NR
85-01-8	Phenanthrene	NR	NR	NR	NR	NR	NR
120-12-7	Anthracene	NR	NR	NR	NR	NR	NR
84-74-2	Di-n-butylphthalate	NR	NR	NR	NR	NR	NR
206-44-0	Fluoranthene	NR	NR	NR	NR	NR	NR
129-00-0	Pyrene	NR	NR	NR	NR	NR	NR
85-68-7	Butylbenzylphthalate	NR	NR	NR	NR	NR	NR
91-94-1	3,3'-Dichlorobenzidine	NR	NR	NR	NR	NR	NR
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	NR	NR	NR	NR	NR	NR
117-84-0	Di-n-octyl phthalate	NR	NR	NR	NR	NR	NR
50-32-8	Benzo(a)pyrene	NR	NR	NR	NR	NR	NR
193-39-5	Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	NR
53-70-3	Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	NR
191-24-2	Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	NR

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-SVOA													
	SAMPLE ID ------->	F20-S-P007-19		F20-S-P009-21		F20-S-P010-02		F20-S-P012-10		F20-S-P013-09		F20-S-P014-04	
	ORIGINAL ID ----->	F20SP00719		F20SP00921		F20SP01002		F20SP01210		F20SP01309		F20SP01404	
	LAB SAMPLE ID --->	37248.02		37261.04		37261.02		37261.05		37261.06		37281.01	
	ID FROM REPORT -->	F20SP00719		F20SP00921		F20SP01002		F20SP01210		F20SP01309		F20SP01404	
	SAMPLE DATE ----->	01/26/99		01/27/99		01/27/99		01/27/99		01/27/99		01/28/99	
	DATE EXTRACTED -->	01/28/99		01/29/99		01/29/99		01/29/99		01/29/99		02/02/99	
	DATE ANALYZED --->	02/11/99		02/13/99		02/12/99		02/13/99		02/13/99		02/16/99	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	37248		37261		37261		37261		37261		37281	
91-20-3	Naphthalene	450.	U	380.	U	350.	U	380.	U	400.	U	4000.	E
56-55-3	Benzo(a)anthracene	450.	U	380.	U	350.	U	190.	J	400.	U	220.	J
218-01-9	Chrysene	450.	U	380.	U	350.	U	250.	J	52.	J	410.	
205-99-2	Benzo(b)fluoranthene	450.	U	380.	U	350.	U	48.	J	400.	U	220.	J
207-08-9	Benzo(k)fluoranthene	450.	U	380.	U	350.	U	57.	J	400.	U	140.	J
108-95-2	Phenol	NR		NR		NR		NR		NR		NR	
111-44-4	bis(2-Chloroethyl)ether	NR		NR		NR		NR		NR		NR	
95-57-8	2-Chlorophenol	NR		NR		NR		NR		NR		NR	
541-73-1	1,3-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
106-46-7	1,4-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
100-51-6	Benzyl alcohol	NR		NR		NR		NR		NR		NR	
95-50-1	1,2-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
95-48-7	2-Methylphenol (o-Cresol)	NR		NR		NR		NR		NR		NR	
108-60-1	2,2'-oxybis(1-Chloropropane)	NR		NR		NR		NR		NR		NR	
106-44-5	4-Methylphenol (p-Cresol)	NR		NR		NR		NR		NR		NR	
621-64-7	N-Nitroso-di-n-propylamine	NR		NR		NR		NR		NR		NR	
67-72-1	Hexachloroethane	NR		NR		NR		NR		NR		NR	
98-95-3	Nitrobenzene	NR		NR		NR		NR		NR		NR	
78-59-1	Isophorone	NR		NR		NR		NR		NR		NR	
88-75-5	2-Nitrophenol	NR		NR		NR		NR		NR		NR	
105-67-9	2,4-Dimethylphenol	NR		NR		NR		NR		NR		NR	
65-85-0	Benzoic acid	NR		NR		NR		NR		NR		NR	
111-91-1	bis(2-Chloroethoxy)methane	NR		NR		NR		NR		NR		NR	
120-83-2	2,4-Dichlorophenol	NR		NR		NR		NR		NR		NR	
120-82-1	1,2,4-Trichlorobenzene	NR		NR		NR		NR		NR		NR	
106-47-8	4-Chloroaniline	NR		NR		NR		NR		NR		NR	
87-68-3	Hexachlorobutadiene	NR		NR		NR		NR		NR		NR	
59-50-7	4-Chloro-3-methylphenol	NR		NR		NR		NR		NR		NR	
91-57-6	2-Methylnaphthalene	NR		NR		NR		NR		NR		NR	
77-47-4	Hexachlorocyclopentadiene	NR		NR		NR		NR		NR		NR	
88-06-2	2,4,6-Trichlorophenol	NR		NR		NR		NR		NR		NR	
95-95-4	2,4,5-Trichlorophenol	NR		NR		NR		NR		NR		NR	
91-58-7	2-Chloronaphthalene	NR		NR		NR		NR		NR		NR	
88-74-4	2-Nitroaniline	NR		NR		NR		NR		NR		NR	
131-11-3	Dimethyl phthalate	NR		NR		NR		NR		NR		NR	
208-96-8	Acenaphthylene	NR		NR		NR		NR		NR		NR	

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-SVOA							
	SAMPLE ID ------->	F20-S-P007-19	F20-S-P009-21	F20-S-P010-02	F20-S-P012-10	F20-S-P013-09	F20-S-P014-04
	ORIGINAL ID ----->	F20SP00719	F20SP00921	F20SP01002	F20SP01210	F20SP01309	F20SP01404
	LAB SAMPLE ID --->	37248.02	37261.04	37261.02	37261.05	37261.06	37281.01
	ID FROM REPORT -->	F20SP00719	F20SP00921	F20SP01002	F20SP01210	F20SP01309	F20SP01404
	SAMPLE DATE ----->	01/26/99	01/27/99	01/27/99	01/27/99	01/27/99	01/28/99
	DATE EXTRACTED -->	01/28/99	01/29/99	01/29/99	01/29/99	01/29/99	02/02/99
	DATE ANALYZED --->	02/11/99	02/13/99	02/12/99	02/13/99	02/13/99	02/16/99
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
CAS #	Parameter	37248	37261	37261	37261	37261	37281
99-09-2	3-Nitroaniline	NR	NR	NR	NR	NR	NR
83-32-9	Acenaphthene	NR	NR	NR	NR	NR	NR
51-28-5	2,4-Dinitrophenol	NR	NR	NR	NR	NR	NR
100-02-7	4-Nitrophenol	NR	NR	NR	NR	NR	NR
132-64-9	Dibenzofuran	NR	NR	NR	NR	NR	NR
121-14-2	2,4-Dinitrotoluene	NR	NR	NR	NR	NR	NR
606-20-2	2,6-Dinitrotoluene	NR	NR	NR	NR	NR	NR
84-66-2	Diethylphthalate	NR	NR	NR	NR	NR	NR
7005-72-3	4-Chlorophenylphenylether	NR	NR	NR	NR	NR	NR
86-73-7	Fluorene	NR	NR	NR	NR	NR	NR
100-01-6	4-Nitroaniline	NR	NR	NR	NR	NR	NR
534-52-1	2-Methyl-4,6-Dinitrophenol	NR	NR	NR	NR	NR	NR
86-30-6	N-Nitrosodiphenylamine	NR	NR	NR	NR	NR	NR
101-55-3	4-Bromophenyl-phenylether	NR	NR	NR	NR	NR	NR
118-74-1	Hexachlorobenzene	NR	NR	NR	NR	NR	NR
87-86-5	Pentachlorophenol	NR	NR	NR	NR	NR	NR
85-01-8	Phenanthrene	NR	NR	NR	NR	NR	NR
120-12-7	Anthracene	NR	NR	NR	NR	NR	NR
84-74-2	Di-n-butylphthalate	NR	NR	NR	NR	NR	NR
206-44-0	Fluoranthene	NR	NR	NR	NR	NR	NR
129-00-0	Pyrene	NR	NR	NR	NR	NR	NR
85-68-7	Butylbenzylphthalate	NR	NR	NR	NR	NR	NR
91-94-1	3,3'-Dichlorobenzidine	NR	NR	NR	NR	NR	NR
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	NR	NR	NR	NR	NR	NR
117-84-0	Di-n-octyl phthalate	NR	NR	NR	NR	NR	NR
50-32-8	Benzo(a)pyrene	NR	NR	NR	NR	NR	NR
193-39-5	Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	NR
53-70-3	Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	NR
191-24-2	Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	NR

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-SVOA													
	SAMPLE ID ------->	F20-S-P015-09		F20-S-P016-09		F20-S-P017-09		F20-S-P019-06		F20-S-P020-06		F20-S-P021-06	
	ORIGINAL ID ----->	F20SP01509		F20SP01609		F20SP01709		F20SP01906		F20SP02006		F20SP02106	
	LAB SAMPLE ID --->	37281.02		37281.03		37261.03		38434.14		38434.13		38434.12	
	ID FROM REPORT -->	F20SP01509		F20SP01609		F20SP01709		F20SP01906		F20SP02006		F20SP02106	
	SAMPLE DATE ----->	01/28/99		01/28/99		01/27/99		05/07/99		05/07/99		05/07/99	
	DATE EXTRACTED -->	02/02/99		02/02/99		01/29/99		05/09/99		05/09/99		05/09/99	
	DATE ANALYZED --->	02/12/99		02/16/99		02/13/99		05/20/99		05/20/99		05/19/99	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	37281		37281		37261		38434		38434		38434	
91-20-3	Naphthalene	79.	J	520.	U	260.	J	1900.	U	30.	J	390.	U
56-55-3	Benzo(a)anthracene	660.		1200.		3900.		220.	J	210.	J	200.	J
218-01-9	Chrysene	740.		1200.		3700.		440.	J	220.	J	260.	J
205-99-2	Benzo(b)fluoranthene	790.		1200.		3000.		1900.	U	100.	J	100.	J
207-08-9	Benzo(k)fluoranthene	720.		920.		2800.		1900.	U	110.	J	110.	J
108-95-2	Phenol	NR		NR		NR		NR		NR		NR	
111-44-4	bis(2-Chloroethyl)ether	NR		NR		NR		NR		NR		NR	
95-57-8	2-Chlorophenol	NR		NR		NR		NR		NR		NR	
541-73-1	1,3-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
106-46-7	1,4-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
100-51-6	Benzyl alcohol	NR		NR		NR		NR		NR		NR	
95-50-1	1,2-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
95-48-7	2-Methylphenol (o-Cresol)	NR		NR		NR		NR		NR		NR	
108-60-1	2,2'-oxybis(1-Chloropropane)	NR		NR		NR		NR		NR		NR	
106-44-5	4-Methylphenol (p-Cresol)	NR		NR		NR		NR		NR		NR	
621-64-7	N-Nitroso-di-n-propylamine	NR		NR		NR		NR		NR		NR	
67-72-1	Hexachloroethane	NR		NR		NR		NR		NR		NR	
98-95-3	Nitrobenzene	NR		NR		NR		NR		NR		NR	
78-59-1	Isophorone	NR		NR		NR		NR		NR		NR	
88-75-5	2-Nitrophenol	NR		NR		NR		NR		NR		NR	
105-67-9	2,4-Dimethylphenol	NR		NR		NR		NR		NR		NR	
65-85-0	Benzoic acid	NR		NR		NR		NR		NR		NR	
111-91-1	bis(2-Chloroethoxy)methane	NR		NR		NR		NR		NR		NR	
120-83-2	2,4-Dichlorophenol	NR		NR		NR		NR		NR		NR	
120-82-1	1,2,4-Trichlorobenzene	NR		NR		NR		NR		NR		NR	
106-47-8	4-Chloroaniline	NR		NR		NR		NR		NR		NR	
87-68-3	Hexachlorobutadiene	NR		NR		NR		NR		NR		NR	
59-50-7	4-Chloro-3-methylphenol	NR		NR		NR		NR		NR		NR	
91-57-6	2-Methylnaphthalene	NR		NR		NR		NR		NR		NR	
77-47-4	Hexachlorocyclopentadiene	NR		NR		NR		NR		NR		NR	
88-06-2	2,4,6-Trichlorophenol	NR		NR		NR		NR		NR		NR	
95-95-4	2,4,5-Trichlorophenol	NR		NR		NR		NR		NR		NR	
91-58-7	2-Chloronaphthalene	NR		NR		NR		NR		NR		NR	
88-74-4	2-Nitroaniline	NR		NR		NR		NR		NR		NR	
131-11-3	Dimethyl phthalate	NR		NR		NR		NR		NR		NR	
208-96-8	Acenaphthylene	NR		NR		NR		NR		NR		NR	

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-SVOA							
	SAMPLE ID ------->	F20-S-P015-09	F20-S-P016-09	F20-S-P017-09	F20-S-P019-06	F20-S-P020-06	F20-S-P021-06
	ORIGINAL ID ----->	F20SP01509	F20SP01609	F20SP01709	F20SP01906	F20SP02006	F20SP02106
	LAB SAMPLE ID --->	37281.02	37281.03	37261.03	38434.14	38434.13	38434.12
	ID FROM REPORT -->	F20SP01509	F20SP01609	F20SP01709	F20SP01906	F20SP02006	F20SP02106
	SAMPLE DATE ----->	01/28/99	01/28/99	01/27/99	05/07/99	05/07/99	05/07/99
	DATE EXTRACTED -->	02/02/99	02/02/99	01/29/99	05/09/99	05/09/99	05/09/99
	DATE ANALYZED --->	02/12/99	02/16/99	02/13/99	05/20/99	05/20/99	05/19/99
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
CAS #	Parameter	37281	37281	37261	38434	38434	38434
99-09-2	3-Nitroaniline	NR	NR	NR	NR	NR	NR
83-32-9	Acenaphthene	NR	NR	NR	NR	NR	NR
51-28-5	2,4-Dinitrophenol	NR	NR	NR	NR	NR	NR
100-02-7	4-Nitrophenol	NR	NR	NR	NR	NR	NR
132-64-9	Dibenzofuran	NR	NR	NR	NR	NR	NR
121-14-2	2,4-Dinitrotoluene	NR	NR	NR	NR	NR	NR
606-20-2	2,6-Dinitrotoluene	NR	NR	NR	NR	NR	NR
84-66-2	Diethylphthalate	NR	NR	NR	NR	NR	NR
7005-72-3	4-Chlorophenylphenylether	NR	NR	NR	NR	NR	NR
86-73-7	Fluorene	NR	NR	NR	NR	NR	NR
100-01-6	4-Nitroaniline	NR	NR	NR	NR	NR	NR
534-52-1	2-Methyl-4,6-Dinitrophenol	NR	NR	NR	NR	NR	NR
86-30-6	N-Nitrosodiphenylamine	NR	NR	NR	NR	NR	NR
101-55-3	4-Bromophenyl-phenylether	NR	NR	NR	NR	NR	NR
118-74-1	Hexachlorobenzene	NR	NR	NR	NR	NR	NR
87-86-5	Pentachlorophenol	NR	NR	NR	NR	NR	NR
85-01-8	Phenanthrene	NR	NR	NR	NR	NR	NR
120-12-7	Anthracene	NR	NR	NR	NR	NR	NR
84-74-2	Di-n-butylphthalate	NR	NR	NR	NR	NR	NR
206-44-0	Fluoranthene	NR	NR	NR	NR	NR	NR
129-00-0	Pyrene	NR	NR	NR	NR	NR	NR
85-68-7	Butylbenzylphthalate	NR	NR	NR	NR	NR	NR
91-94-1	3,3'-Dichlorobenzidine	NR	NR	NR	NR	NR	NR
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	NR	NR	NR	NR	NR	NR
117-84-0	Di-n-octyl phthalate	NR	NR	NR	NR	NR	NR
50-32-8	Benzo(a)pyrene	NR	NR	NR	NR	NR	NR
193-39-5	Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	NR
53-70-3	Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	NR
191-24-2	Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	NR

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-SVOA													
	SAMPLE ID ------->	F20-S-P022-04		F20-S-P023-07		F20-S-P024-07		F20-S-P025-05		F20-S-P026-08		F20-S-P027-08	
	ORIGINAL ID ----->	F20SP02204		F20SP02307		F20SP02407		F20SP02505		F20SP02608		F20SP02708	
	LAB SAMPLE ID --->	38434.15		38434.19		38434.18		38434.16		38434.17		38434.11	
	ID FROM REPORT -->	F20SP02204		F20SP02307		F20SP02407		F20SP02505		F20SP02608		F20SP02708	
	SAMPLE DATE ----->	05/07/99		05/07/99		05/07/99		05/07/99		05/07/99		05/07/99	
	DATE EXTRACTED -->	05/09/99		05/09/99		05/09/99		05/09/99		05/09/99		05/09/99	
	DATE ANALYZED --->	05/19/99		05/20/99		05/20/99		05/20/99		05/19/99		05/19/99	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	38434		38434		38434		38434		38434		38434	
91-20-3	Naphthalene	2000.	U	660.		600.		390.	U	400.	U	400.	U
56-55-3	Benzo(a)anthracene	160.	J	170.	J	40.	J	120.	J	400.	U	35.	J
218-01-9	Chrysene	190.	J	310.	J	55.	J	150.	J	400.	U	45.	J
205-99-2	Benzo(b)fluoranthene	140.	J	79.	J	46.	J	110.	J	400.	U	41.	J
207-08-9	Benzo(k)fluoranthene	140.	J	53.	J	30.	J	120.	J	400.	U	29.	J
108-95-2	Phenol	NR		NR		NR		NR		NR		NR	
111-44-4	bis(2-Chloroethyl)ether	NR		NR		NR		NR		NR		NR	
95-57-8	2-Chlorophenol	NR		NR		NR		NR		NR		NR	
541-73-1	1,3-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
106-46-7	1,4-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
100-51-6	Benzyl alcohol	NR		NR		NR		NR		NR		NR	
95-50-1	1,2-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
95-48-7	2-Methylphenol (o-Cresol)	NR		NR		NR		NR		NR		NR	
108-60-1	2,2'-oxybis(1-Chloropropane)	NR		NR		NR		NR		NR		NR	
106-44-5	4-Methylphenol (p-Cresol)	NR		NR		NR		NR		NR		NR	
621-64-7	N-Nitroso-di-n-propylamine	NR		NR		NR		NR		NR		NR	
67-72-1	Hexachloroethane	NR		NR		NR		NR		NR		NR	
98-95-3	Nitrobenzene	NR		NR		NR		NR		NR		NR	
78-59-1	Isophorone	NR		NR		NR		NR		NR		NR	
88-75-5	2-Nitrophenol	NR		NR		NR		NR		NR		NR	
105-67-9	2,4-Dimethylphenol	NR		NR		NR		NR		NR		NR	
65-85-0	Benzoic acid	NR		NR		NR		NR		NR		NR	
111-91-1	bis(2-Chloroethoxy)methane	NR		NR		NR		NR		NR		NR	
120-83-2	2,4-Dichlorophenol	NR		NR		NR		NR		NR		NR	
120-82-1	1,2,4-Trichlorobenzene	NR		NR		NR		NR		NR		NR	
106-47-8	4-Chloroaniline	NR		NR		NR		NR		NR		NR	
87-68-3	Hexachlorobutadiene	NR		NR		NR		NR		NR		NR	
59-50-7	4-Chloro-3-methylphenol	NR		NR		NR		NR		NR		NR	
91-57-6	2-Methylnaphthalene	NR		NR		NR		NR		NR		NR	
77-47-4	Hexachlorocyclopentadiene	NR		NR		NR		NR		NR		NR	
88-06-2	2,4,6-Trichlorophenol	NR		NR		NR		NR		NR		NR	
95-95-4	2,4,5-Trichlorophenol	NR		NR		NR		NR		NR		NR	
91-58-7	2-Chloronaphthalene	NR		NR		NR		NR		NR		NR	
88-74-4	2-Nitroaniline	NR		NR		NR		NR		NR		NR	
131-11-3	Dimethyl phthalate	NR		NR		NR		NR		NR		NR	
208-96-8	Acenaphthylene	NR		NR		NR		NR		NR		NR	

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-SVOA	SAMPLE ID ------->	F20-S-P022-04	F20-S-P023-07	F20-S-P024-07	F20-S-P025-05	F20-S-P026-08	F20-S-P027-08
	ORIGINAL ID ----->	F20SP02204	F20SP02307	F20SP02407	F20SP02505	F20SP02608	F20SP02708
	LAB SAMPLE ID --->	38434.15	38434.19	38434.18	38434.16	38434.17	38434.11
	ID FROM REPORT -->	F20SP02204	F20SP02307	F20SP02407	F20SP02505	F20SP02608	F20SP02708
	SAMPLE DATE ----->	05/07/99	05/07/99	05/07/99	05/07/99	05/07/99	05/07/99
	DATE EXTRACTED -->	05/09/99	05/09/99	05/09/99	05/09/99	05/09/99	05/09/99
	DATE ANALYZED --->	05/19/99	05/20/99	05/20/99	05/20/99	05/19/99	05/19/99
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
CAS #	Parameter	38434	38434	38434	38434	38434	38434
99-09-2	3-Nitroaniline	NR	NR	NR	NR	NR	NR
83-32-9	Acenaphthene	NR	NR	NR	NR	NR	NR
51-28-5	2,4-Dinitrophenol	NR	NR	NR	NR	NR	NR
100-02-7	4-Nitrophenol	NR	NR	NR	NR	NR	NR
132-64-9	Dibenzofuran	NR	NR	NR	NR	NR	NR
121-14-2	2,4-Dinitrotoluene	NR	NR	NR	NR	NR	NR
606-20-2	2,6-Dinitrotoluene	NR	NR	NR	NR	NR	NR
84-66-2	Diethylphthalate	NR	NR	NR	NR	NR	NR
7005-72-3	4-Chlorophenylphenylether	NR	NR	NR	NR	NR	NR
86-73-7	Fluorene	NR	NR	NR	NR	NR	NR
100-01-6	4-Nitroaniline	NR	NR	NR	NR	NR	NR
534-52-1	2-Methyl-4,6-Dinitrophenol	NR	NR	NR	NR	NR	NR
86-30-6	N-Nitrosodiphenylamine	NR	NR	NR	NR	NR	NR
101-55-3	4-Bromophenyl-phenylether	NR	NR	NR	NR	NR	NR
118-74-1	Hexachlorobenzene	NR	NR	NR	NR	NR	NR
87-86-5	Pentachlorophenol	NR	NR	NR	NR	NR	NR
85-01-8	Phenanthrene	NR	NR	NR	NR	NR	NR
120-12-7	Anthracene	NR	NR	NR	NR	NR	NR
84-74-2	Di-n-butylphthalate	NR	NR	NR	NR	NR	NR
206-44-0	Fluoranthene	NR	NR	NR	NR	NR	NR
129-00-0	Pyrene	NR	NR	NR	NR	NR	NR
85-68-7	Butylbenzylphthalate	NR	NR	NR	NR	NR	NR
91-94-1	3,3'-Dichlorobenzidine	NR	NR	NR	NR	NR	NR
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	NR	NR	NR	NR	NR	NR
117-84-0	Di-n-octyl phthalate	NR	NR	NR	NR	NR	NR
50-32-8	Benzo(a)pyrene	NR	NR	NR	NR	NR	NR
193-39-5	Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	NR
53-70-3	Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	NR
191-24-2	Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	NR

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-SVOA								
	SAMPLE ID ------->	F20-S-P029-07		F20-S-P030-05				
	ORIGINAL ID ----->	F20SP02907		F20SP03005				
	LAB SAMPLE ID --->	38434.09		38434.10				
	ID FROM REPORT -->	F20SP02907		F20SP03005				
	SAMPLE DATE ----->	05/07/99		05/07/99				
	DATE EXTRACTED -->	05/09/99		05/09/99				
	DATE ANALYZED --->	05/21/99		05/20/99				
	MATRIX ---------->	Soil		Soil				
	UNITS ---------->	UG/KG		UG/KG				
CAS #	Parameter	38434		38434				
91-20-3	Naphthalene	29.	J	43.	J			
56-55-3	Benzo(a)anthracene	95.	J	200.	J			
218-01-9	Chrysene	180.	J	280.	J			
205-99-2	Benzo(b)fluoranthene	96.	J	140.	J			
207-08-9	Benzo(k)fluoranthene	85.	J	170.	J			
108-95-2	Phenol	NR		NR				
111-44-4	bis(2-Chloroethyl)ether	NR		NR				
95-57-8	2-Chlorophenol	NR		NR				
541-73-1	1,3-Dichlorobenzene	NR		NR				
106-46-7	1,4-Dichlorobenzene	NR		NR				
100-51-6	Benzyl alcohol	NR		NR				
95-50-1	1,2-Dichlorobenzene	NR		NR				
95-48-7	2-Methylphenol (o-Cresol)	NR		NR				
108-60-1	2,2'-oxybis(1-Chloropropane)	NR		NR				
106-44-5	4-Methylphenol (p-Cresol)	NR		NR				
621-64-7	N-Nitroso-di-n-propylamine	NR		NR				
67-72-1	Hexachloroethane	NR		NR				
98-95-3	Nitrobenzene	NR		NR				
78-59-1	Isophorone	NR		NR				
88-75-5	2-Nitrophenol	NR		NR				
105-67-9	2,4-Dimethylphenol	NR		NR				
65-85-0	Benzoic acid	NR		NR				
111-91-1	bis(2-Chloroethoxy)methane	NR		NR				
120-83-2	2,4-Dichlorophenol	NR		NR				
120-82-1	1,2,4-Trichlorobenzene	NR		NR				
106-47-8	4-Chloroaniline	NR		NR				
87-68-3	Hexachlorobutadiene	NR		NR				
59-50-7	4-Chloro-3-methylphenol	NR		NR				
91-57-6	2-Methylnaphthalene	NR		NR				
77-47-4	Hexachlorocyclopentadiene	NR		NR				
88-06-2	2,4,6-Trichlorophenol	NR		NR				
95-95-4	2,4,5-Trichlorophenol	NR		NR				
91-58-7	2-Chloronaphthalene	NR		NR				
88-74-4	2-Nitroaniline	NR		NR				
131-11-3	Dimethyl phthalate	NR		NR				
208-96-8	Acenaphthylene	NR		NR				

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-SVOA							
	SAMPLE ID ------->	F20-S-P029-07	F20-S-P030-05				
	ORIGINAL ID ----->	F20SP02907	F20SP03005				
	LAB SAMPLE ID --->	38434.09	38434.10				
	ID FROM REPORT -->	F20SP02907	F20SP03005				
	SAMPLE DATE ----->	05/07/99	05/07/99				
	DATE EXTRACTED -->	05/09/99	05/09/99				
	DATE ANALYZED --->	05/21/99	05/20/99				
	MATRIX ---------->	Soil	Soil				
	UNITS ---------->	UG/KG	UG/KG				
CAS #	Parameter	38434	38434				
99-09-2	3-Nitroaniline	NR	NR				
83-32-9	Acenaphthene	NR	NR				
51-28-5	2,4-Dinitrophenol	NR	NR				
100-02-7	4-Nitrophenol	NR	NR				
132-64-9	Dibenzofuran	NR	NR				
121-14-2	2,4-Dinitrotoluene	NR	NR				
606-20-2	2,6-Dinitrotoluene	NR	NR				
84-66-2	Diethylphthalate	NR	NR				
7005-72-3	4-Chlorophenylphenylether	NR	NR				
86-73-7	Fluorene	NR	NR				
100-01-6	4-Nitroaniline	NR	NR				
534-52-1	2-Methyl-4,6-Dinitrophenol	NR	NR				
86-30-6	N-Nitrosodiphenylamine	NR	NR				
101-55-3	4-Bromophenyl-phenylether	NR	NR				
118-74-1	Hexachlorobenzene	NR	NR				
87-86-5	Pentachlorophenol	NR	NR				
85-01-8	Phenanthrene	NR	NR				
120-12-7	Anthracene	NR	NR				
84-74-2	Di-n-butylphthalate	NR	NR				
206-44-0	Fluoranthene	NR	NR				
129-00-0	Pyrene	NR	NR				
85-68-7	Butylbenzylphthalate	NR	NR				
91-94-1	3,3'-Dichlorobenzidine	NR	NR				
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	NR	NR				
117-84-0	Di-n-octyl phthalate	NR	NR				
50-32-8	Benzo(a)pyrene	NR	NR				
193-39-5	Indeno(1,2,3-cd)pyrene	NR	NR				
53-70-3	Dibenz(a,h)anthracene	NR	NR				
191-24-2	Benzo(g,h,i)perylene	NR	NR				

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-SVOA													
	SAMPLE ID ------->	F20-S-P034-03		F20-S-P035-03		F20-C-P035-03		F20-S-P036-03		F20-S-P037-03		F20-S-P038-03	
	ORIGINAL ID ----->	F20SP03403		F20SP03503		F20CP03503		F20SP03603		F20SP03703		F20SP03803	
	LAB SAMPLE ID --->	44538.17		44538.18		44538.19		44523.15		44523.16		44550.11	
	ID FROM REPORT -->	F20SP03403		F20SP03503		F20CP03503		F20SP03603		F20SP03703		F20SP03803	
	SAMPLE DATE ----->	10/02/00		10/02/00		10/02/00		09/29/00		09/29/00		10/03/00	
	DATE EXTRACTED -->	10/03/00		10/03/00		10/03/00		09/30/00		09/30/00		10/05/00	
	DATE ANALYZED --->	10/04/00		10/04/00		10/04/00		10/03/00		10/03/00		10/10/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	44538		44538		44538		44523		44523		44550	
91-20-3	Naphthalene	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
56-55-3	Benzo(a)anthracene	380.	U	36.	J	400.	U	38.	J	50.	J	280.	J
218-01-9	Chrysene	380.	U	44.	J	400.	U	46.	J	68.	J	350.	J
205-99-2	Benzo(b)fluoranthene	380.	U	400.	U	400.	U	370.	U	400.	U	210.	J
207-08-9	Benzo(k)fluoranthene	380.	U	400.	U	400.	U	370.	U	400.	U	220.	J
108-95-2	Phenol	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
111-44-4	bis(2-Chloroethyl)ether	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
95-57-8	2-Chlorophenol	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
541-73-1	1,3-Dichlorobenzene	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
106-46-7	1,4-Dichlorobenzene	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
100-51-6	Benzyl alcohol	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
95-50-1	1,2-Dichlorobenzene	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
95-48-7	2-Methylphenol (o-Cresol)	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
106-44-5	4-Methylphenol (p-Cresol)	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
621-64-7	N-Nitroso-di-n-propylamine	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
67-72-1	Hexachloroethane	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
98-95-3	Nitrobenzene	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
78-59-1	Isophorone	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
88-75-5	2-Nitrophenol	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
105-67-9	2,4-Dimethylphenol	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
65-85-0	Benzoic acid	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
111-91-1	bis(2-Chloroethoxy)methane	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
120-83-2	2,4-Dichlorophenol	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
120-82-1	1,2,4-Trichlorobenzene	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
106-47-8	4-Chloroaniline	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
87-68-3	Hexachlorobutadiene	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
59-50-7	4-Chloro-3-methylphenol	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
91-57-6	2-Methylnaphthalene	380.	U	400.	U	400.	U	370.	U	400.	U	88.	J
77-47-4	Hexachlorocyclopentadiene	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
88-06-2	2,4,6-Trichlorophenol	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
95-95-4	2,4,5-Trichlorophenol	950.	U	990.	U	990.	U	920.	U	1000.	U	1200.	U
91-58-7	2-Chloronaphthalene	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
88-74-4	2-Nitroaniline	950.	U	990.	U	990.	U	920.	U	1000.	U	1200.	U
131-11-3	Dimethyl phthalate	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
208-96-8	Acenaphthylene	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-SVOA													
	SAMPLE ID ------->	F20-S-P034-03		F20-S-P035-03		F20-C-P035-03		F20-S-P036-03		F20-S-P037-03		F20-S-P038-03	
	ORIGINAL ID ----->	F20SP03403		F20SP03503		F20CP03503		F20SP03603		F20SP03703		F20SP03803	
	LAB SAMPLE ID --->	44538.17		44538.18		44538.19		44523.15		44523.16		44550.11	
	ID FROM REPORT -->	F20SP03403		F20SP03503		F20CP03503		F20SP03603		F20SP03703		F20SP03803	
	SAMPLE DATE ----->	10/02/00		10/02/00		10/02/00		09/29/00		09/29/00		10/03/00	
	DATE EXTRACTED -->	10/03/00		10/03/00		10/03/00		09/30/00		09/30/00		10/05/00	
	DATE ANALYZED --->	10/04/00		10/04/00		10/04/00		10/03/00		10/03/00		10/10/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	44538		44538		44538		44523		44523		44550	
99-09-2	3-Nitroaniline	950.	U	990.	U	990.	U	920.	U	1000.	U	1200.	U
83-32-9	Acenaphthene	380.	U	400.	U	400.	U	370.	U	400.	U	1400.	
51-28-5	2,4-Dinitrophenol	950.	U	990.	U	990.	U	920.	U	1000.	U	1200.	U
100-02-7	4-Nitrophenol	950.	U	990.	U	990.	U	920.	U	1000.	U	1200.	U
132-64-9	Dibenzofuran	380.	U	400.	U	400.	U	370.	U	400.	U	630.	
121-14-2	2,4-Dinitrotoluene	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
606-20-2	2,6-Dinitrotoluene	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
84-66-2	Diethylphthalate	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
7005-72-3	4-Chlorophenylphenylether	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
86-73-7	Fluorene	380.	U	400.	U	400.	U	370.	U	400.	U	1100.	
100-01-6	4-Nitroaniline	950.	U	990.	U	990.	U	920.	U	1000.	U	1200.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	950.	U	990.	U	990.	U	920.	U	1000.	U	1200.	U
86-30-6	N-Nitrosodiphenylamine	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
101-55-3	4-Bromophenyl-phenylether	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
118-74-1	Hexachlorobenzene	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
87-86-5	Pentachlorophenol	950.	U	990.	U	990.	U	920.	U	1000.	U	1200.	U
85-01-8	Phenanthrene	380.	U	38.	J	400.	U	370.	U	400.	U	2300.	
120-12-7	Anthracene	380.	U	400.	U	400.	U	370.	U	400.	U	550.	
84-74-2	Di-n-butylphthalate	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
206-44-0	Fluoranthene	380.	U	400.	U	400.	U	370.	U	400.	U	1200.	
129-00-0	Pyrene	380.	U	400.	U	400.	U	370.	U	400.	U	1800.	
85-68-7	Butylbenzylphthalate	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
91-94-1	3,3'-Dichlorobenzidine	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
117-84-0	Di-n-octyl phthalate	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
50-32-8	Benzo(a)pyrene	380.	U	31.	J	400.	U	44.	J	65.	J	190.	J
193-39-5	Indeno(1,2,3-cd)pyrene	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
53-70-3	Dibenz(a,h)anthracene	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U
191-24-2	Benzo(g,h,i)perylene	380.	U	400.	U	400.	U	370.	U	400.	U	480.	U

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-SVOA									
	SAMPLE ID ------->	F20-S-P039-03		F20-S-P040-03		F20-S-P041-03		F20-S-P042-03	
	ORIGINAL ID ----->	F20SP03903		F20SP04003		F20SP04103		F20SP04203	
	LAB SAMPLE ID --->	44550.10		44523.13		44523.14		44523.17	
	ID FROM REPORT -->	F20SP03903		F20SP04003		F20SP04103		F20SP04203	
	SAMPLE DATE ----->	10/03/00		09/29/00		09/29/00		09/29/00	
	DATE EXTRACTED -->	10/05/00		09/30/00		09/30/00		09/30/00	
	DATE ANALYZED --->	10/10/00		10/03/00		10/03/00		10/03/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	44550		44523		44523		44523	
91-20-3	Naphthalene	600.	U	390.	U	380.	U	390.	U
56-55-3	Benzo(a)anthracene	64.	J	390.	U	82.	J	390.	U
218-01-9	Chrysene	81.	J	27.	J	89.	J	390.	U
205-99-2	Benzo(b)fluoranthene	600.	U	390.	U	380.	U	390.	U
207-08-9	Benzo(k)fluoranthene	600.	U	390.	U	380.	U	390.	U
108-95-2	Phenol	600.	U	390.	U	380.	U	390.	U
111-44-4	bis(2-Chloroethyl)ether	600.	U	390.	U	380.	U	390.	U
95-57-8	2-Chlorophenol	600.	U	390.	U	380.	U	390.	U
541-73-1	1,3-Dichlorobenzene	600.	U	390.	U	380.	U	390.	U
106-46-7	1,4-Dichlorobenzene	600.	U	390.	U	380.	U	390.	U
100-51-6	Benzyl alcohol	600.	U	390.	U	380.	U	390.	U
95-50-1	1,2-Dichlorobenzene	600.	U	390.	U	380.	U	390.	U
95-48-7	2-Methylphenol (o-Cresol)	600.	U	390.	U	380.	U	390.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	600.	U	390.	U	380.	U	390.	U
106-44-5	4-Methylphenol (p-Cresol)	600.	U	390.	U	380.	U	390.	U
621-64-7	N-Nitroso-di-n-propylamine	600.	U	390.	U	380.	U	390.	U
67-72-1	Hexachloroethane	600.	U	390.	U	380.	U	390.	U
98-95-3	Nitrobenzene	600.	U	390.	U	380.	U	390.	U
78-59-1	Isophorone	600.	U	390.	U	380.	U	390.	U
88-75-5	2-Nitrophenol	600.	U	390.	U	380.	U	390.	U
105-67-9	2,4-Dimethylphenol	600.	U	390.	U	380.	U	390.	U
65-85-0	Benzoic acid	400.	J	390.	U	380.	U	390.	U
111-91-1	bis(2-Chloroethoxy)methane	600.	U	390.	U	380.	U	390.	U
120-83-2	2,4-Dichlorophenol	600.	U	390.	U	380.	U	390.	U
120-82-1	1,2,4-Trichlorobenzene	600.	U	390.	U	380.	U	390.	U
106-47-8	4-Chloroaniline	600.	U	390.	U	380.	U	390.	U
87-68-3	Hexachlorobutadiene	600.	U	390.	U	380.	U	390.	U
59-50-7	4-Chloro-3-methylphenol	600.	U	390.	U	380.	U	390.	U
91-57-6	2-Methylnaphthalene	600.	U	390.	U	380.	U	390.	U
77-47-4	Hexachlorocyclopentadiene	600.	U	390.	U	380.	U	390.	U
88-06-2	2,4,6-Trichlorophenol	600.	U	390.	U	380.	U	390.	U
95-95-4	2,4,5-Trichlorophenol	1500.	U	980.	U	940.	U	970.	U
91-58-7	2-Chloronaphthalene	600.	U	390.	U	380.	U	390.	U
88-74-4	2-Nitroaniline	1500.	U	980.	U	940.	U	970.	U
131-11-3	Dimethyl phthalate	600.	U	390.	U	380.	U	390.	U
208-96-8	Acenaphthylene	600.	U	390.	U	380.	U	390.	U

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-SVOA											
	SAMPLE ID ------->	F20-S-P039-03		F20-S-P040-03		F20-S-P041-03		F20-S-P042-03			
	ORIGINAL ID ----->	F20SP03903		F20SP04003		F20SP04103		F20SP04203			
	LAB SAMPLE ID --->	44550.10		44523.13		44523.14		44523.17			
	ID FROM REPORT -->	F20SP03903		F20SP04003		F20SP04103		F20SP04203			
	SAMPLE DATE ----->	10/03/00		09/29/00		09/29/00		09/29/00			
	DATE EXTRACTED -->	10/05/00		09/30/00		09/30/00		09/30/00			
	DATE ANALYZED --->	10/10/00		10/03/00		10/03/00		10/03/00			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	44550		44523		44523		44523			
99-09-2	3-Nitroaniline	1500.	U	980.	U	940.	U	970.	U		
83-32-9	Acenaphthene	600.	U	390.	U	48.	J	390.	U		
51-28-5	2,4-Dinitrophenol	1500.	U	980.	U	940.	U	970.	U		
100-02-7	4-Nitrophenol	1500.	U	980.	U	940.	U	970.	U		
132-64-9	Dibenzofuran	600.	U	390.	U	380.	U	390.	U		
121-14-2	2,4-Dinitrotoluene	600.	U	390.	U	380.	U	390.	U		
606-20-2	2,6-Dinitrotoluene	600.	U	390.	U	380.	U	390.	U		
84-66-2	Diethylphthalate	600.	U	390.	U	380.	U	390.	U		
7005-72-3	4-Chlorophenylphenylether	600.	U	390.	U	380.	U	390.	U		
86-73-7	Fluorene	600.	U	390.	U	380.	U	390.	U		
100-01-6	4-Nitroaniline	1500.	U	980.	U	940.	U	970.	U		
534-52-1	2-Methyl-4,6-Dinitrophenol	1500.	U	980.	U	940.	U	970.	U		
86-30-6	N-Nitrosodiphenylamine	600.	U	390.	U	380.	U	390.	U		
101-55-3	4-Bromophenyl-phenylether	600.	U	390.	U	380.	U	390.	U		
118-74-1	Hexachlorobenzene	600.	U	390.	U	380.	U	390.	U		
87-86-5	Pentachlorophenol	1500.	U	980.	U	940.	U	970.	U		
85-01-8	Phenanthrene	600.	U	390.	U	120.	J	390.	U		
120-12-7	Anthracene	600.	U	390.	U	54.	J	390.	U		
84-74-2	Di-n-butylphthalate	600.	U	390.	U	380.	U	390.	U		
206-44-0	Fluoranthene	600.	U	390.	U	380.	U	390.	U		
129-00-0	Pyrene	600.	U	390.	U	230.	J	390.	U		
85-68-7	Butylbenzylphthalate	600.	U	390.	U	380.	U	390.	U		
91-94-1	3,3'-Dichlorobenzidine	600.	U	390.	U	380.	U	390.	U		
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	600.	U	390.	U	380.	U	390.	U		
117-84-0	Di-n-octyl phthalate	600.	U	390.	U	380.	U	390.	U		
50-32-8	Benzo(a)pyrene	74.	J	33.	J	87.	J	390.	U		
193-39-5	Indeno(1,2,3-cd)pyrene	600.	U	390.	U	380.	U	390.	U		
53-70-3	Dibenz(a,h)anthracene	600.	U	390.	U	380.	U	390.	U		
191-24-2	Benzo(g,h,i)perylene	600.	U	390.	U	380.	U	390.	U		

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-VOA																	
	SAMPLE ID ------->	F20-S-P034-03		F20-S-P035-03		F20-C-P035-03		F20-S-P036-03		F20-S-P037-03		F20-S-P038-03	
	ORIGINAL ID ----->	F20SP03403		F20SP03503		F20CP03503		F20SP03603		F20SP03703		F20SP03803	
	LAB SAMPLE ID --->	44538.17		44538.18		44538.19		44523.15		44523.16		44550.11	
	ID FROM REPORT -->	F20SP03403		F20SP03503		F20CP03503		F20SP03603		F20SP03703		F20SP03803	
	SAMPLE DATE ----->	10/02/00		10/02/00		10/02/00		09/29/00		09/29/00		10/03/00	
	DATE ANALYZED --->	10/07/00		10/07/00		10/07/00		10/05/00		10/06/00		10/07/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	44538		44538		44538		44523		44523		44550	
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
74-87-3	Chloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
74-83-9	Bromomethane	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
75-01-4	Vinyl chloride	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
75-00-3	Chloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	3.	J
67-64-1	Acetone	38.	U	65.		100.		5.	U	120.		30.	
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
78-93-3	2-Butanone (MEK)	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
108-05-4	Vinyl acetate	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
591-78-6	2-Hexanone	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U
110-75-8	2-Chloroethyl vinyl ether	5.	U	5.	U	5.	U	5.	U	5.	U	7.	U

FDS CAR ADDENDUM
AREA 20
DPT SOIL RESULTS

SW846-VOA											
	SAMPLE ID ------->	F20-S-P039-03		F20-S-P040-03		F20-S-P041-03		F20-S-P042-03			
	ORIGINAL ID ----->	F20SP03903		F20SP04003		F20SP04103		F20SP04203			
	LAB SAMPLE ID --->	44550.10		44523.13		44523.14		44523.17			
	ID FROM REPORT -->	F20SP03903		F20SP04003		F20SP04103		F20SP04203			
	SAMPLE DATE ----->	10/03/00		09/29/00		09/29/00		09/29/00			
	DATE ANALYZED --->	10/07/00		10/06/00		10/06/00		10/06/00			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	44550		44523		44523		44523			
71-43-2	Benzene	10.	U	5.	U	6.	U	5.	U		
100-41-4	Ethylbenzene	10.	U	5.	U	1.	J	5.	U		
108-88-3	Toluene	10.	U	5.	U	6.	U	5.	U		
1330-20-7	Xylene (Total)	10.	U	5.	U	7.	U	5.	U		
74-87-3	Chloromethane	10.	U	5.	U	6.	U	5.	U		
74-83-9	Bromomethane	10.	U	5.	U	6.	U	5.	U		
75-01-4	Vinyl chloride	10.	U	5.	U	6.	U	5.	U		
75-00-3	Chloroethane	10.	U	5.	U	6.	U	5.	U		
75-09-2	Methylene chloride	10.	U	5.	U	6.	U	5.	U		
67-64-1	Acetone	48.		180.		6.	U	110.			
75-15-0	Carbon disulfide	10.	U	5.	U	6.	U	5.	U		
75-35-4	1,1-Dichloroethene	10.	U	5.	U	6.	U	5.	U		
75-34-3	1,1-Dichloroethane	10.	U	5.	U	6.	U	5.	U		
540-59-0	1,2-Dichloroethene (total)	10.	U	5.	U	6.	U	5.	U		
67-66-3	Chloroform	10.	U	5.	U	6.	U	5.	U		
107-06-2	1,2-Dichloroethane	10.	U	5.	U	6.	U	5.	U		
78-93-3	2-Butanone (MEK)	10.	U	5.	U	6.	U	5.	U		
71-55-6	1,1,1-Trichloroethane	10.	U	5.	U	6.	U	5.	U		
56-23-5	Carbon tetrachloride	10.	U	5.	U	6.	U	5.	U		
108-05-4	Vinyl acetate	10.	U	5.	U	6.	U	5.	U		
75-27-4	Bromodichloromethane	10.	U	5.	U	6.	U	5.	U		
78-87-5	1,2-Dichloropropane	10.	U	5.	U	6.	U	5.	U		
10061-01-5	cis-1,3-Dichloropropene	10.	U	5.	U	6.	U	5.	U		
79-01-6	Trichloroethene	10.	U	5.	U	6.	U	5.	U		
124-48-1	Dibromochloromethane	10.	U	5.	U	6.	U	5.	U		
79-00-5	1,1,2-Trichloroethane	10.	U	5.	U	6.	U	5.	U		
10061-02-6	trans-1,3-Dichloropropene	10.	U	5.	U	6.	U	5.	U		
75-25-2	Bromoform	10.	U	5.	U	6.	U	5.	U		
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	5.	U	6.	U	5.	U		
591-78-6	2-Hexanone	10.	U	5.	U	6.	U	5.	U		
127-18-4	Tetrachloroethene	10.	U	5.	U	6.	U	5.	U		
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	5.	U	6.	U	5.	U		
108-90-7	Chlorobenzene	10.	U	5.	U	6.	U	5.	U		
100-42-5	Styrene	10.	U	5.	U	6.	U	5.	U		
110-75-8	2-Chloroethyl vinyl ether	10.	U	5.	U	6.	U	5.	U		

FDS CAR ADDENDUM
AREA 20
DPT GROUNDWATER RESULTS

SW846-SVOA													
	SAMPLE ID ------->	F20-G-P001-01		F20-G-P002-01		F20-G-P003-01		F20-G-P004-01		F20-G-P005-01		F20-G-P006-01	
	ORIGINAL ID ----->	F20GP00101		F20GP00201		F20GP00301		F20GP00401		F20GP00501		F20GP00601	
	LAB SAMPLE ID --->	37297.08		37297.07		37297.06		37297.04		37297.03		37297.05	
	ID FROM REPORT -->	F20GP00101		F20GP00201		F20GP00301		F20GP00401		F20GP00501		F20GP00601	
	SAMPLE DATE ----->	01/29/99		01/29/99		01/29/99		01/29/99		01/29/99		01/29/99	
	DATE EXTRACTED -->	01/31/99		01/31/99		01/31/99		01/31/99		01/31/99		01/31/99	
	DATE ANALYZED --->	02/12/99		02/12/99		02/12/99		02/16/99		02/12/99		02/12/99	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	37297		37297		37297		37297		37297		37297	
91-20-3	Naphthalene	1.	J	1.	J	3.	J	6.	J	16.		5.	J
56-55-3	Benzo(a)anthracene	10.	U	10.	U	2.	J	10.	U	1.	J	10.	U
218-01-9	Chrysene	10.	U	10.	U	2.	J	10.	U	2.	J	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	2.	J	10.	U	1.	J	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-95-2	Phenol	NR		NR		NR		NR		NR		NR	
111-44-4	bis(2-Chloroethyl)ether	NR		NR		NR		NR		NR		NR	
95-57-8	2-Chlorophenol	NR		NR		NR		NR		NR		NR	
541-73-1	1,3-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
106-46-7	1,4-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
100-51-6	Benzyl alcohol	NR		NR		NR		NR		NR		NR	
95-50-1	1,2-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
95-48-7	2-Methylphenol (o-Cresol)	NR		NR		NR		NR		NR		NR	
108-60-1	2,2'-oxybis(1-Chloropropane)	NR		NR		NR		NR		NR		NR	
106-44-5	4-Methylphenol (p-Cresol)	NR		NR		NR		NR		NR		NR	
621-64-7	N-Nitroso-di-n-propylamine	NR		NR		NR		NR		NR		NR	
67-72-1	Hexachloroethane	NR		NR		NR		NR		NR		NR	
98-95-3	Nitrobenzene	NR		NR		NR		NR		NR		NR	
78-59-1	Isophorone	NR		NR		NR		NR		NR		NR	
88-75-5	2-Nitrophenol	NR		NR		NR		NR		NR		NR	
105-67-9	2,4-Dimethylphenol	NR		NR		NR		NR		NR		NR	
65-85-0	Benzoic acid	NR		NR		NR		NR		NR		NR	
111-91-1	bis(2-Chloroethoxy)methane	NR		NR		NR		NR		NR		NR	
120-83-2	2,4-Dichlorophenol	NR		NR		NR		NR		NR		NR	
120-82-1	1,2,4-Trichlorobenzene	NR		NR		NR		NR		NR		NR	
106-47-8	4-Chloroaniline	NR		NR		NR		NR		NR		NR	
87-68-3	Hexachlorobutadiene	NR		NR		NR		NR		NR		NR	
59-50-7	4-Chloro-3-methylphenol	NR		NR		NR		NR		NR		NR	
91-57-6	2-Methylnaphthalene	NR		NR		NR		NR		NR		NR	
77-47-4	Hexachlorocyclopentadiene	NR		NR		NR		NR		NR		NR	
88-06-2	2,4,6-Trichlorophenol	NR		NR		NR		NR		NR		NR	
95-95-4	2,4,5-Trichlorophenol	NR		NR		NR		NR		NR		NR	
91-58-7	2-Chloronaphthalene	NR		NR		NR		NR		NR		NR	
88-74-4	2-Nitroaniline	NR		NR		NR		NR		NR		NR	
131-11-3	Dimethyl phthalate	NR		NR		NR		NR		NR		NR	
208-96-8	Acenaphthylene	NR		NR		NR		NR		NR		NR	

FDS CAR ADDENDUM
AREA 20
DPT GROUNDWATER RESULTS

SW846-SVOA							
	SAMPLE ID ------->	F20-G-P001-01	F20-G-P002-01	F20-G-P003-01	F20-G-P004-01	F20-G-P005-01	F20-G-P006-01
	ORIGINAL ID ----->	F20GP00101	F20GP00201	F20GP00301	F20GP00401	F20GP00501	F20GP00601
	LAB SAMPLE ID --->	37297.08	37297.07	37297.06	37297.04	37297.03	37297.05
	ID FROM REPORT -->	F20GP00101	F20GP00201	F20GP00301	F20GP00401	F20GP00501	F20GP00601
	SAMPLE DATE ----->	01/29/99	01/29/99	01/29/99	01/29/99	01/29/99	01/29/99
	DATE EXTRACTED -->	01/31/99	01/31/99	01/31/99	01/31/99	01/31/99	01/31/99
	DATE ANALYZED --->	02/12/99	02/12/99	02/12/99	02/16/99	02/12/99	02/12/99
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
CAS #	Parameter	37297	37297	37297	37297	37297	37297
99-09-2	3-Nitroaniline	NR	NR	NR	NR	NR	NR
83-32-9	Acenaphthene	NR	NR	NR	NR	NR	NR
51-28-5	2,4-Dinitrophenol	NR	NR	NR	NR	NR	NR
100-02-7	4-Nitrophenol	NR	NR	NR	NR	NR	NR
132-64-9	Dibenzofuran	NR	NR	NR	NR	NR	NR
121-14-2	2,4-Dinitrotoluene	NR	NR	NR	NR	NR	NR
606-20-2	2,6-Dinitrotoluene	NR	NR	NR	NR	NR	NR
84-66-2	Diethylphthalate	NR	NR	NR	NR	NR	NR
7005-72-3	4-Chlorophenylphenylether	NR	NR	NR	NR	NR	NR
86-73-7	Fluorene	NR	NR	NR	NR	NR	NR
100-01-6	4-Nitroaniline	NR	NR	NR	NR	NR	NR
534-52-1	2-Methyl-4,6-Dinitrophenol	NR	NR	NR	NR	NR	NR
86-30-6	N-Nitrosodiphenylamine	NR	NR	NR	NR	NR	NR
101-55-3	4-Bromophenyl-phenylether	NR	NR	NR	NR	NR	NR
118-74-1	Hexachlorobenzene	NR	NR	NR	NR	NR	NR
87-86-5	Pentachlorophenol	NR	NR	NR	NR	NR	NR
85-01-8	Phenanthrene	NR	NR	NR	NR	NR	NR
120-12-7	Anthracene	NR	NR	NR	NR	NR	NR
84-74-2	Di-n-butylphthalate	NR	NR	NR	NR	NR	NR
206-44-0	Fluoranthene	NR	NR	NR	NR	NR	NR
129-00-0	Pyrene	NR	NR	NR	NR	NR	NR
85-68-7	Butylbenzylphthalate	NR	NR	NR	NR	NR	NR
91-94-1	3,3'-Dichlorobenzidine	NR	NR	NR	NR	NR	NR
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	NR	NR	NR	NR	NR	NR
117-84-0	Di-n-octyl phthalate	NR	NR	NR	NR	NR	NR
50-32-8	Benzo(a)pyrene	NR	NR	NR	NR	NR	NR
193-39-5	Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	NR
53-70-3	Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	NR
191-24-2	Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	NR

FDS CAR ADDENDUM
AREA 20
DPT GROUNDWATER RESULTS

SW846-SVOA																			
	SAMPLE ID ------->	F20-G-P008-01		F20-G-P018-01		F20-G-P019-01		F20-G-P020-01		F20-G-P022-01		F20-G-P024-01	
	ORIGINAL ID ----->	F20GP00801		F20GP01801		F20GP01901		F20GP02001		F20GP02201		F20GP02401	
	LAB SAMPLE ID --->	37297.02		38434.03		38434.02		38434.01		38464.05		38464.06	
	ID FROM REPORT -->	F20GP00801		F20GP01801		F20GP01901		F20GP02001		F20GP02201		F20GP02401	
	SAMPLE DATE ----->	01/29/99		05/07/99		05/07/99		05/07/99		05/10/99		05/10/99	
	DATE EXTRACTED -->	01/31/99		05/09/99		05/09/99		05/09/99		05/12/99		05/12/99	
	DATE ANALYZED --->	02/12/99		05/19/99		05/14/99		05/14/99		05/18/99		05/18/99	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	37297		38434		38434		38434		38464		38464	
91-20-3	Naphthalene	780.	E	0.6	J	10.	U	10.	U	1.	J	9.	J
56-55-3	Benzo(a)anthracene	55.		2.	J	10.	U	10.	U	10.	U	2.	J
218-01-9	Chrysene	50.		2.	J	10.	U	10.	U	10.	U	4.	J
205-99-2	Benzo(b)fluoranthene	26.		1.	J	10.	U	10.	U	10.	U	1.	J
207-08-9	Benzo(k)fluoranthene	20.		0.5	J	10.	U	10.	U	10.	U	0.9	J
108-95-2	Phenol	NR		NR		NR		NR		NR		NR	
111-44-4	bis(2-Chloroethyl)ether	NR		NR		NR		NR		NR		NR	
95-57-8	2-Chlorophenol	NR		NR		NR		NR		NR		NR	
541-73-1	1,3-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
106-46-7	1,4-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
100-51-6	Benzyl alcohol	NR		NR		NR		NR		NR		NR	
95-50-1	1,2-Dichlorobenzene	NR		NR		NR		NR		NR		NR	
95-48-7	2-Methylphenol (o-Cresol)	NR		NR		NR		NR		NR		NR	
108-60-1	2,2'-oxybis(1-Chloropropane)	NR		NR		NR		NR		NR		NR	
106-44-5	4-Methylphenol (p-Cresol)	NR		NR		NR		NR		NR		NR	
621-64-7	N-Nitroso-di-n-propylamine	NR		NR		NR		NR		NR		NR	
67-72-1	Hexachloroethane	NR		NR		NR		NR		NR		NR	
98-95-3	Nitrobenzene	NR		NR		NR		NR		NR		NR	
78-59-1	Isophorone	NR		NR		NR		NR		NR		NR	
88-75-5	2-Nitrophenol	NR		NR		NR		NR		NR		NR	
105-67-9	2,4-Dimethylphenol	NR		NR		NR		NR		NR		NR	
65-85-0	Benzoic acid	NR		NR		NR		NR		NR		NR	
111-91-1	bis(2-Chloroethoxy)methane	NR		NR		NR		NR		NR		NR	
120-83-2	2,4-Dichlorophenol	NR		NR		NR		NR		NR		NR	
120-82-1	1,2,4-Trichlorobenzene	NR		NR		NR		NR		NR		NR	
106-47-8	4-Chloroaniline	NR		NR		NR		NR		NR		NR	
87-68-3	Hexachlorobutadiene	NR		NR		NR		NR		NR		NR	
59-50-7	4-Chloro-3-methylphenol	NR		NR		NR		NR		NR		NR	
91-57-6	2-Methylnaphthalene	NR		NR		NR		NR		NR		NR	
77-47-4	Hexachlorocyclopentadiene	NR		NR		NR		NR		NR		NR	
88-06-2	2,4,6-Trichlorophenol	NR		NR		NR		NR		NR		NR	
95-95-4	2,4,5-Trichlorophenol	NR		NR		NR		NR		NR		NR	
91-58-7	2-Chloronaphthalene	NR		NR		NR		NR		NR		NR	
88-74-4	2-Nitroaniline	NR		NR		NR		NR		NR		NR	
131-11-3	Dimethyl phthalate	NR		NR		NR		NR		NR		NR	
208-96-8	Acenaphthylene	NR		NR		NR		NR		NR		NR	

FDS CAR ADDENDUM
AREA 20
DPT GROUNDWATER RESULTS

SW846-SVOA							
	SAMPLE ID ------->	F20-G-P008-01	F20-G-P018-01	F20-G-P019-01	F20-G-P020-01	F20-G-P022-01	F20-G-P024-01
	ORIGINAL ID ----->	F20GP00801	F20GP01801	F20GP01901	F20GP02001	F20GP02201	F20GP02401
	LAB SAMPLE ID --->	37297.02	38434.03	38434.02	38434.01	38464.05	38464.06
	ID FROM REPORT -->	F20GP00801	F20GP01801	F20GP01901	F20GP02001	F20GP02201	F20GP02401
	SAMPLE DATE ----->	01/29/99	05/07/99	05/07/99	05/07/99	05/10/99	05/10/99
	DATE EXTRACTED -->	01/31/99	05/09/99	05/09/99	05/09/99	05/12/99	05/12/99
	DATE ANALYZED --->	02/12/99	05/19/99	05/14/99	05/14/99	05/18/99	05/18/99
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
CAS #	Parameter	37297	38434	38434	38434	38464	38464
99-09-2	3-Nitroaniline	NR	NR	NR	NR	NR	NR
83-32-9	Acenaphthene	NR	NR	NR	NR	NR	NR
51-28-5	2,4-Dinitrophenol	NR	NR	NR	NR	NR	NR
100-02-7	4-Nitrophenol	NR	NR	NR	NR	NR	NR
132-64-9	Dibenzofuran	NR	NR	NR	NR	NR	NR
121-14-2	2,4-Dinitrotoluene	NR	NR	NR	NR	NR	NR
606-20-2	2,6-Dinitrotoluene	NR	NR	NR	NR	NR	NR
84-66-2	Diethylphthalate	NR	NR	NR	NR	NR	NR
7005-72-3	4-Chlorophenylphenylether	NR	NR	NR	NR	NR	NR
86-73-7	Fluorene	NR	NR	NR	NR	NR	NR
100-01-6	4-Nitroaniline	NR	NR	NR	NR	NR	NR
534-52-1	2-Methyl-4,6-Dinitrophenol	NR	NR	NR	NR	NR	NR
86-30-6	N-Nitrosodiphenylamine	NR	NR	NR	NR	NR	NR
101-55-3	4-Bromophenyl-phenylether	NR	NR	NR	NR	NR	NR
118-74-1	Hexachlorobenzene	NR	NR	NR	NR	NR	NR
87-86-5	Pentachlorophenol	NR	NR	NR	NR	NR	NR
85-01-8	Phenanthrene	NR	NR	NR	NR	NR	NR
120-12-7	Anthracene	NR	NR	NR	NR	NR	NR
84-74-2	Di-n-butylphthalate	NR	NR	NR	NR	NR	NR
206-44-0	Fluoranthene	NR	NR	NR	NR	NR	NR
129-00-0	Pyrene	NR	NR	NR	NR	NR	NR
85-68-7	Butylbenzylphthalate	NR	NR	NR	NR	NR	NR
91-94-1	3,3'-Dichlorobenzidine	NR	NR	NR	NR	NR	NR
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	NR	NR	NR	NR	NR	NR
117-84-0	Di-n-octyl phthalate	NR	NR	NR	NR	NR	NR
50-32-8	Benzo(a)pyrene	NR	NR	NR	NR	NR	NR
193-39-5	Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	NR
53-70-3	Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	NR
191-24-2	Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	NR

FDS CAR ADDENDUM
AREA 20
DPT GROUNDWATER RESULTS

SW846-SVOA											
	SAMPLE ID ------->	F20-G-P025-01		F20-G-P026-01		F20-G-P027-01		F20-G-P029-01		F20-G-P030-01	
	ORIGINAL ID ----->	F20GP02501		F20GP02601		F20GP02701		F20GP02901		F20GP03001	
	LAB SAMPLE ID --->	38464.07		38464.08		38482.03		38482.01		38482.02	
	ID FROM REPORT -->	F20GP02501		F20GP02601		F20GP02701		F20GP02901		F20GP03001	
	SAMPLE DATE ----->	05/10/99		05/10/99		05/11/99		05/11/99		05/11/99	
	DATE EXTRACTED -->	05/12/99		05/12/99		05/12/99		05/12/99		05/12/99	
	DATE ANALYZED --->	05/18/99		05/18/99		05/18/99		05/18/99		05/18/99	
	MATRIX ---------->	Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	38464		38464		38464		38464		38464	
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U
56-55-3	Benzo(a)anthracene	15.		10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	13.		10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	J	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	6.	J	10.	U	10.	U	10.	U	10.	U
108-95-2	Phenol	NR		NR		NR		NR		NR	
111-44-4	bis(2-Chloroethyl)ether	NR		NR		NR		NR		NR	
95-57-8	2-Chlorophenol	NR		NR		NR		NR		NR	
541-73-1	1,3-Dichlorobenzene	NR		NR		NR		NR		NR	
106-46-7	1,4-Dichlorobenzene	NR		NR		NR		NR		NR	
100-51-6	Benzyl alcohol	NR		NR		NR		NR		NR	
95-50-1	1,2-Dichlorobenzene	NR		NR		NR		NR		NR	
95-48-7	2-Methylphenol (o-Cresol)	NR		NR		NR		NR		NR	
108-60-1	2,2'-oxybis(1-Chloropropane)	NR		NR		NR		NR		NR	
106-44-5	4-Methylphenol (p-Cresol)	NR		NR		NR		NR		NR	
621-64-7	N-Nitroso-di-n-propylamine	NR		NR		NR		NR		NR	
67-72-1	Hexachloroethane	NR		NR		NR		NR		NR	
98-95-3	Nitrobenzene	NR		NR		NR		NR		NR	
78-59-1	Isophorone	NR		NR		NR		NR		NR	
88-75-5	2-Nitrophenol	NR		NR		NR		NR		NR	
105-67-9	2,4-Dimethylphenol	NR		NR		NR		NR		NR	
65-85-0	Benzoic acid	NR		NR		NR		NR		NR	
111-91-1	bis(2-Chloroethoxy)methane	NR		NR		NR		NR		NR	
120-83-2	2,4-Dichlorophenol	NR		NR		NR		NR		NR	
120-82-1	1,2,4-Trichlorobenzene	NR		NR		NR		NR		NR	
106-47-8	4-Chloroaniline	NR		NR		NR		NR		NR	
87-68-3	Hexachlorobutadiene	NR		NR		NR		NR		NR	
59-50-7	4-Chloro-3-methylphenol	NR		NR		NR		NR		NR	
91-57-6	2-Methylnaphthalene	NR		NR		NR		NR		NR	
77-47-4	Hexachlorocyclopentadiene	NR		NR		NR		NR		NR	
88-06-2	2,4,6-Trichlorophenol	NR		NR		NR		NR		NR	
95-95-4	2,4,5-Trichlorophenol	NR		NR		NR		NR		NR	
91-58-7	2-Chloronaphthalene	NR		NR		NR		NR		NR	
88-74-4	2-Nitroaniline	NR		NR		NR		NR		NR	
131-11-3	Dimethyl phthalate	NR		NR		NR		NR		NR	
208-96-8	Acenaphthylene	NR		NR		NR		NR		NR	

FDS CAR ADDENDUM
AREA 20
DPT GROUNDWATER RESULTS

SW846-SVOA							
	SAMPLE ID ------->	F20-G-P025-01	F20-G-P026-01	F20-G-P027-01	F20-G-P029-01	F20-G-P030-01	
	ORIGINAL ID ----->	F20GP02501	F20GP02601	F20GP02701	F20GP02901	F20GP03001	
	LAB SAMPLE ID --->	38464.07	38464.08	38482.03	38482.01	38482.02	
	ID FROM REPORT -->	F20GP02501	F20GP02601	F20GP02701	F20GP02901	F20GP03001	
	SAMPLE DATE ----->	05/10/99	05/10/99	05/11/99	05/11/99	05/11/99	
	DATE EXTRACTED -->	05/12/99	05/12/99	05/12/99	05/12/99	05/12/99	
	DATE ANALYZED --->	05/18/99	05/18/99	05/18/99	05/18/99	05/18/99	
	MATRIX ---------->	Water	Water	Water	Water	Water	
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	
CAS #	Parameter	38464	38464	38464	38464	38464	
99-09-2	3-Nitroaniline	NR	NR	NR	NR	NR	
83-32-9	Acenaphthene	NR	NR	NR	NR	NR	
51-28-5	2,4-Dinitrophenol	NR	NR	NR	NR	NR	
100-02-7	4-Nitrophenol	NR	NR	NR	NR	NR	
132-64-9	Dibenzofuran	NR	NR	NR	NR	NR	
121-14-2	2,4-Dinitrotoluene	NR	NR	NR	NR	NR	
606-20-2	2,6-Dinitrotoluene	NR	NR	NR	NR	NR	
84-66-2	Diethylphthalate	NR	NR	NR	NR	NR	
7005-72-3	4-Chlorophenylphenylether	NR	NR	NR	NR	NR	
86-73-7	Fluorene	NR	NR	NR	NR	NR	
100-01-6	4-Nitroaniline	NR	NR	NR	NR	NR	
534-52-1	2-Methyl-4,6-Dinitrophenol	NR	NR	NR	NR	NR	
86-30-6	N-Nitrosodiphenylamine	NR	NR	NR	NR	NR	
101-55-3	4-Bromophenyl-phenylether	NR	NR	NR	NR	NR	
118-74-1	Hexachlorobenzene	NR	NR	NR	NR	NR	
87-86-5	Pentachlorophenol	NR	NR	NR	NR	NR	
85-01-8	Phenanthrene	NR	NR	NR	NR	NR	
120-12-7	Anthracene	NR	NR	NR	NR	NR	
84-74-2	Di-n-butylphthalate	NR	NR	NR	NR	NR	
206-44-0	Fluoranthene	NR	NR	NR	NR	NR	
129-00-0	Pyrene	NR	NR	NR	NR	NR	
85-68-7	Butylbenzylphthalate	NR	NR	NR	NR	NR	
91-94-1	3,3'-Dichlorobenzidine	NR	NR	NR	NR	NR	
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	NR	NR	NR	NR	NR	
117-84-0	Di-n-octyl phthalate	NR	NR	NR	NR	NR	
50-32-8	Benzo(a)pyrene	NR	NR	NR	NR	NR	
193-39-5	Indeno(1,2,3-cd)pyrene	NR	NR	NR	NR	NR	
53-70-3	Dibenz(a,h)anthracene	NR	NR	NR	NR	NR	
191-24-2	Benzo(g,h,i)perylene	NR	NR	NR	NR	NR	

DATALCP3
04/04/00

FDS CAR ADDENDUM
AREA 20
DPT GROUNDWATER RESULTS

SW-SVOA									
	SAMPLE ID ------->	F20-G-P031-01		F20-G-P032-01					
	ORIGINAL ID ----->	F20GP03101		F20GP03201					
	LAB SAMPLE ID --->	39154.03		39154.02					
	ID FROM REPORT -->	F20GP03101		F20GP03201					
	SAMPLE DATE ----->	06/24/99		06/24/99					
	DATE EXTRACTED -->	06/26/99		06/26/99					
	DATE ANALYZED --->	06/30/99		06/30/99					
	MATRIX ---------->	Water		Water					
	UNITS ---------->	UG/L		UG/L					
CAS #	Parameter	39154		39154					
108-95-2	Phenol	10.	U	0.6	JB				
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U				
95-57-8	2-Chlorophenol	10.	U	10.	U				
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U				
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U				
100-51-6	Benzyl alcohol	10.	U	10.	U				
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U				
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U				
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U				
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U				
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U				
67-72-1	Hexachloroethane	10.	U	10.	U				
98-95-3	Nitrobenzene	10.	U	10.	U				
78-59-1	Isophorone	10.	U	10.	U				
88-75-5	2-Nitrophenol	10.	U	10.	U				
105-67-9	2,4-Dimethylphenol	10.	U	10.	U				
65-85-0	Benzoic acid	2.	J	1.	J				
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U				
120-83-2	2,4-Dichlorophenol	10.	U	10.	U				
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U				
91-20-3	Naphthalene	10.	U	10.	U				
106-47-8	4-Chloroaniline	10.	U	10.	U				
87-68-3	Hexachlorobutadiene	10.	U	10.	U				
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U				
91-57-6	2-Methylnaphthalene	10.	U	10.	U				
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U				
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U				
95-95-4	2,4,5-Trichlorophenol	25.	U	25.	U				
91-58-7	2-Chloronaphthalene	10.	U	10.	U				
88-74-4	2-Nitroaniline	25.	U	25.	U				
131-11-3	Dimethyl phthalate	10.	U	10.	U				
208-96-8	Acenaphthylene	10.	U	10.	U				
99-09-2	3-Nitroaniline	25.	U	25.	U				
83-32-9	Acenaphthene	10.	U	10.	U				
51-28-5	2,4-Dinitrophenol	25.	U	25.	U				
100-02-7	4-Nitrophenol	25.	U	25.	U				

FDS CAR ADDENDUM
AREA 20
DPT GROUNDWATER RESULTS

SW-SVOA											
	SAMPLE ID ------->	F20-G-P031-01		F20-G-P032-01							
	ORIGINAL ID ----->	F20GP03101		F20GP03201							
	LAB SAMPLE ID --->	39154.03		39154.02							
	ID FROM REPORT -->	F20GP03101		F20GP03201							
	SAMPLE DATE ----->	06/24/99		06/24/99							
	DATE EXTRACTED -->	06/26/99		06/26/99							
	DATE ANALYZED --->	06/30/99		06/30/99							
	MATRIX ---------->	Water		Water							
	UNITS ---------->	UG/L		UG/L							
CAS #	Parameter	39154		39154							
132-64-9	Dibenzofuran	10.	U	10.	U						
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U						
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U						
84-66-2	Diethylphthalate	0.7	JB	0.6	JB						
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U						
86-73-7	Fluorene	0.8	J	10.	U						
100-01-6	4-Nitroaniline	25.	U	25.	U						
534-52-1	2-Methyl-4,6-Dinitrophenol	25.	U	25.	U						
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U						
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U						
118-74-1	Hexachlorobenzene	10.	U	10.	U						
87-86-5	Pentachlorophenol	25.	U	25.	U						
85-01-8	Phenanthrene	5.	J	10.	U						
120-12-7	Anthracene	2.	J	10.	U						
84-74-2	Di-n-butylphthalate	1.	J	0.5	J						
206-44-0	Fluoranthene	11.		10.	U						
129-00-0	Pyrene	10.	J	10.	U						
85-68-7	Butylbenzylphthalate	10.	U	10.	U						
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U						
56-55-3	Benzo(a)anthracene	4.	J	10.	U						
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	2.	JB	2.	JB						
218-01-9	Chrysene	5.	J	10.	U						
117-84-0	Di-n-octyl phthalate	10.	U	10.	U						
205-99-2	Benzo(b)fluoranthene	4.	J	10.	U						
207-08-9	Benzo(k)fluoranthene	3.	J	10.	U						
50-32-8	Benzo(a)pyrene	4.	J	10.	U						
193-39-5	Indeno(1,2,3-cd)pyrene	2.	J	10.	U						
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U						
191-24-2	Benzo(g,h,i)perylene	3.	J	10.	U						

FDS CAR ADDENDUM
AREA 20
DPT GROUNDWATER RESULTS

SW846-VOA							
	SAMPLE ID ------->	F20-G-P001-01	F20-G-P002-01	F20-G-P003-01	F20-G-P004-01	F20-G-P005-01	F20-G-P006-01
	ORIGINAL ID ----->	F20GP00101	F20GP00201	F20GP00301	F20GP00401	F20GP00501	F20GP00601
	LAB SAMPLE ID --->	37297.08	37297.07	37297.06	37297.04	37297.03	37297.05
	ID FROM REPORT -->	F20GP00101	F20GP00201	F20GP00301	F20GP00401	F20GP00501	F20GP00601
	SAMPLE DATE ----->	01/29/99	01/29/99	01/29/99	01/29/99	01/29/99	01/29/99
	DATE ANALYZED --->	02/04/99	02/02/99	02/02/99	02/02/99	02/02/99	02/02/99
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
CAS #	Parameter	37297	37297	37297	37297	37297	37297
71-43-2	Benzene	5. U	5. U	5. U	5. U	2. J	5. U
100-41-4	Ethylbenzene	5. U	5. U	5. U	5. U	5. J	5. U
108-88-3	Toluene	5. U	5. U	5. U	5. U	4. J	5. U
1330-20-7	Xylene (Total)	5. U	5. U	5. U	5. U	21.	5. U
74-87-3	Chloromethane	NR	NR	NR	NR	NR	NR
74-83-9	Bromomethane	NR	NR	NR	NR	NR	NR
75-01-4	Vinyl chloride	NR	NR	NR	NR	NR	NR
75-00-3	Chloroethane	NR	NR	NR	NR	NR	NR
75-09-2	Methylene chloride	NR	NR	NR	NR	NR	NR
67-64-1	Acetone	NR	NR	NR	NR	NR	NR
75-15-0	Carbon disulfide	NR	NR	NR	NR	NR	NR
75-35-4	1,1-Dichloroethene	NR	NR	NR	NR	NR	NR
75-34-3	1,1-Dichloroethane	NR	NR	NR	NR	NR	NR
540-59-0	1,2-Dichloroethene (total)	NR	NR	NR	NR	NR	NR
67-66-3	Chloroform	NR	NR	NR	NR	NR	NR
107-06-2	1,2-Dichloroethane	NR	NR	NR	NR	NR	NR
78-93-3	2-Butanone (MEK)	NR	NR	NR	NR	NR	NR
71-55-6	1,1,1-Trichloroethane	NR	NR	NR	NR	NR	NR
56-23-5	Carbon tetrachloride	NR	NR	NR	NR	NR	NR
108-05-4	Vinyl acetate	NR	NR	NR	NR	NR	NR
75-27-4	Bromodichloromethane	NR	NR	NR	NR	NR	NR
78-87-5	1,2-Dichloropropane	NR	NR	NR	NR	NR	NR
10061-01-5	cis-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR
79-01-6	Trichloroethene	NR	NR	NR	NR	NR	NR
124-48-1	Dibromochloromethane	NR	NR	NR	NR	NR	NR
79-00-5	1,1,2-Trichloroethane	NR	NR	NR	NR	NR	NR
10061-02-6	trans-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR
75-25-2	Bromoform	NR	NR	NR	NR	NR	NR
108-10-1	4-Methyl-2-Pentanone (MIBK)	NR	NR	NR	NR	NR	NR
591-78-6	2-Hexanone	NR	NR	NR	NR	NR	NR
127-18-4	Tetrachloroethene	NR	NR	NR	NR	NR	NR
79-34-5	1,1,2,2-Tetrachloroethane	NR	NR	NR	NR	NR	NR
108-90-7	Chlorobenzene	NR	NR	NR	NR	NR	NR
100-42-5	Styrene	NR	NR	NR	NR	NR	NR
110-75-8	2-Chloroethyl vinyl ether	NR	NR	NR	NR	NR	NR

FDS CAR ADDENDUM
AREA 20
DPT GROUNDWATER RESULTS

SW846-VOA							
	SAMPLE ID ------->	F20-G-P008-01	F20-G-P018-01	F20-G-P019-01	F20-G-P020-01	F20-G-P022-01	F20-G-P024-01
	ORIGINAL ID ----->	F20GP00801	F20GP01801	F20GP01901	F20GP02001	F20GP02201	F20GP02401
	LAB SAMPLE ID --->	37297.02	38434.03	38434.02	38434.01	38464.05	38464.06
	ID FROM REPORT -->	F20GP00801	F20GP01801	F20GP01901	F20GP02001	F20GP02201	F20GP02401
	SAMPLE DATE ----->	01/29/99	05/07/99	05/07/99	05/07/99	05/10/99	05/10/99
	DATE ANALYZED --->	02/02/99	05/13/99	05/13/99	05/13/99	05/15/99	05/15/99
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
CAS #	Parameter	37297	38434	38434	38434	38464	38464
71-43-2	Benzene	5. U	5. U	5. U	5. U	5. U	5. U
100-41-4	Ethylbenzene	5.	5. U	5. U	5. U	5. U	5. U
108-88-3	Toluene	5. U	5. U	5. U	5. U	5. U	5. U
1330-20-7	Xylene (Total)	10.	5. U	5. U	5. U	5. U	4. J
74-87-3	Chloromethane	NR	NR	NR	NR	NR	NR
74-83-9	Bromomethane	NR	NR	NR	NR	NR	NR
75-01-4	Vinyl chloride	NR	NR	NR	NR	NR	NR
75-00-3	Chloroethane	NR	NR	NR	NR	NR	NR
75-09-2	Methylene chloride	NR	NR	NR	NR	NR	NR
67-64-1	Acetone	NR	NR	NR	NR	NR	NR
75-15-0	Carbon disulfide	NR	NR	NR	NR	NR	NR
75-35-4	1,1-Dichloroethene	NR	NR	NR	NR	NR	NR
75-34-3	1,1-Dichloroethane	NR	NR	NR	NR	NR	NR
540-59-0	1,2-Dichloroethene (total)	NR	NR	NR	NR	NR	NR
67-66-3	Chloroform	NR	NR	NR	NR	NR	NR
107-06-2	1,2-Dichloroethane	NR	NR	NR	NR	NR	NR
78-93-3	2-Butanone (MEK)	NR	NR	NR	NR	NR	NR
71-55-6	1,1,1-Trichloroethane	NR	NR	NR	NR	NR	NR
56-23-5	Carbon tetrachloride	NR	NR	NR	NR	NR	NR
108-05-4	Vinyl acetate	NR	NR	NR	NR	NR	NR
75-27-4	Bromodichloromethane	NR	NR	NR	NR	NR	NR
78-87-5	1,2-Dichloropropane	NR	NR	NR	NR	NR	NR
10061-01-5	cis-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR
79-01-6	Trichloroethene	NR	NR	NR	NR	NR	NR
124-48-1	Dibromochloromethane	NR	NR	NR	NR	NR	NR
79-00-5	1,1,2-Trichloroethane	NR	NR	NR	NR	NR	NR
10061-02-6	trans-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR
75-25-2	Bromoform	NR	NR	NR	NR	NR	NR
108-10-1	4-Methyl-2-Pentanone (MIBK)	NR	NR	NR	NR	NR	NR
591-78-6	2-Hexanone	NR	NR	NR	NR	NR	NR
127-18-4	Tetrachloroethene	NR	NR	NR	NR	NR	NR
79-34-5	1,1,2,2-Tetrachloroethane	NR	NR	NR	NR	NR	NR
108-90-7	Chlorobenzene	NR	NR	NR	NR	NR	NR
100-42-5	Styrene	NR	NR	NR	NR	NR	NR
110-75-8	2-Chloroethyl vinyl ether	NR	NR	NR	NR	NR	NR

FDS CAR ADDENDUM
AREA 20
DPT GROUNDWATER RESULTS

SW846-VOA							
	SAMPLE ID ------->	F20-G-P025-01	F20-G-P026-01	F20-G-P027-01	F20-G-P028-01	F20-G-P029-01	F20-G-P030-01
	ORIGINAL ID ----->	F20GP02501	F20GP02601	F20GP02701	F20GP02801	F20GP02901	F20GP03001
	LAB SAMPLE ID --->	38464.07	38464.08	38482.03	38482.04	38482.01	38482.02
	ID FROM REPORT -->	F20GP02501	F20GP02601	F20GP02701	F20GP02801	F20GP02901	F20GP03001
	SAMPLE DATE ----->	05/10/99	05/10/99	05/11/99	05/11/99	05/11/99	05/11/99
	DATE ANALYZED --->	05/16/99	05/16/99	05/16/99	05/16/99	05/16/99	05/16/99
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
CAS #	Parameter	38464	38464	38464	38464	38464	38464
71-43-2	Benzene	5. U	5. U	5. U	5. U	5. U	5. U
100-41-4	Ethylbenzene	5. U	5. U	5. U	5. U	5. U	5. U
108-88-3	Toluene	5. U	5. U	5. U	5. U	5. U	5. U
1330-20-7	Xylene (Total)	5. U	5. U	5. U	5. U	5. U	5. U
74-87-3	Chloromethane	NR	NR	NR	NR	NR	NR
74-83-9	Bromomethane	NR	NR	NR	NR	NR	NR
75-01-4	Vinyl chloride	NR	NR	NR	NR	NR	NR
75-00-3	Chloroethane	NR	NR	NR	NR	NR	NR
75-09-2	Methylene chloride	NR	NR	NR	NR	NR	NR
67-64-1	Acetone	NR	NR	NR	NR	NR	NR
75-15-0	Carbon disulfide	NR	NR	NR	NR	NR	NR
75-35-4	1,1-Dichloroethene	NR	NR	NR	NR	NR	NR
75-34-3	1,1-Dichloroethane	NR	NR	NR	NR	NR	NR
540-59-0	1,2-Dichloroethene (total)	NR	NR	NR	NR	NR	NR
67-66-3	Chloroform	NR	NR	NR	NR	NR	NR
107-06-2	1,2-Dichloroethane	NR	NR	NR	NR	NR	NR
78-93-3	2-Butanone (MEK)	NR	NR	NR	NR	NR	NR
71-55-6	1,1,1-Trichloroethane	NR	NR	NR	NR	NR	NR
56-23-5	Carbon tetrachloride	NR	NR	NR	NR	NR	NR
108-05-4	Vinyl acetate	NR	NR	NR	NR	NR	NR
75-27-4	Bromodichloromethane	NR	NR	NR	NR	NR	NR
78-87-5	1,2-Dichloropropane	NR	NR	NR	NR	NR	NR
10061-01-5	cis-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR
79-01-6	Trichloroethene	NR	NR	NR	NR	NR	NR
124-48-1	Dibromochloromethane	NR	NR	NR	NR	NR	NR
79-00-5	1,1,2-Trichloroethane	NR	NR	NR	NR	NR	NR
10061-02-6	trans-1,3-Dichloropropene	NR	NR	NR	NR	NR	NR
75-25-2	Bromoform	NR	NR	NR	NR	NR	NR
108-10-1	4-Methyl-2-Pentanone (MIBK)	NR	NR	NR	NR	NR	NR
591-78-6	2-Hexanone	NR	NR	NR	NR	NR	NR
127-18-4	Tetrachloroethene	NR	NR	NR	NR	NR	NR
79-34-5	1,1,2,2-Tetrachloroethane	NR	NR	NR	NR	NR	NR
108-90-7	Chlorobenzene	NR	NR	NR	NR	NR	NR
100-42-5	Styrene	NR	NR	NR	NR	NR	NR
110-75-8	2-Chloroethyl vinyl ether	NR	NR	NR	NR	NR	NR

FDS CAR ADDENDUM
AREA 20
DPT GROUNDWATER RESULTS

SW846-VOA							
	SAMPLE ID ------->	F20-G-P031-01	F20-G-P032-01	F20-G-P033-01			
	ORIGINAL ID ----->	F20GP03101	F20GP03201	F20GP03301			
	LAB SAMPLE ID --->	39154.03	39154.02	39154.04			
	ID FROM REPORT -->	F20GP03101	F20GP03201	F20GP03301			
	SAMPLE DATE ----->	06/24/99	06/24/99	06/24/99			
	DATE ANALYZED --->	07/07/99	07/07/99	07/07/99			
	MATRIX ---------->	Water	Water	Water			
	UNITS ---------->	UG/L	UG/L	UG/L			
CAS #	Parameter	39154	39154	39154			
71-43-2	Benzene	5. U	5. U	5. U			
100-41-4	Ethylbenzene	5. U	5. U	5. U			
108-88-3	Toluene	5. U	5. U	5. U			
1330-20-7	Xylene (Total)	5. U	5. U	5. U			
74-87-3	Chloromethane	NR	NR	NR			
74-83-9	Bromomethane	NR	NR	NR			
75-01-4	Vinyl chloride	NR	NR	NR			
75-00-3	Chloroethane	NR	NR	NR			
75-09-2	Methylene chloride	NR	NR	NR			
67-64-1	Acetone	NR	NR	NR			
75-15-0	Carbon disulfide	NR	NR	NR			
75-35-4	1,1-Dichloroethene	NR	NR	NR			
75-34-3	1,1-Dichloroethane	NR	NR	NR			
540-59-0	1,2-Dichloroethene (total)	NR	NR	NR			
67-66-3	Chloroform	NR	NR	NR			
107-06-2	1,2-Dichloroethane	NR	NR	NR			
78-93-3	2-Butanone (MEK)	NR	NR	NR			
71-55-6	1,1,1-Trichloroethane	NR	NR	NR			
56-23-5	Carbon tetrachloride	NR	NR	NR			
108-05-4	Vinyl acetate	NR	NR	NR			
75-27-4	Bromodichloromethane	NR	NR	NR			
78-87-5	1,2-Dichloropropane	NR	NR	NR			
10061-01-5	cis-1,3-Dichloropropene	NR	NR	NR			
79-01-6	Trichloroethene	NR	NR	NR			
124-48-1	Dibromochloromethane	NR	NR	NR			
79-00-5	1,1,2-Trichloroethane	NR	NR	NR			
10061-02-6	trans-1,3-Dichloropropene	NR	NR	NR			
75-25-2	Bromoform	NR	NR	NR			
108-10-1	4-Methyl-2-Pentanone (MIBK)	NR	NR	NR			
591-78-6	2-Hexanone	NR	NR	NR			
127-18-4	Tetrachloroethene	NR	NR	NR			
79-34-5	1,1,2,2-Tetrachloroethane	NR	NR	NR			
108-90-7	Chlorobenzene	NR	NR	NR			
100-42-5	Styrene	NR	NR	NR			
110-75-8	2-Chloroethyl vinyl ether	NR	NR	NR			

FDS CAR ADDENDUM
AREA 20
DPT GROUNDWATER RESULTS

SW846-SVOA													
	SAMPLE ID ------->	F20-G-P036-01		F20-G-P037-01		F20-G-P040-01		F20-G-P041-01		F20-H-P041-01		F20-G-P043-01	
	ORIGINAL ID ----->	F20GP03601		F20GP03701		F20GP04001		F20GP04101		F20HP04101		F20GP04301	
	LAB SAMPLE ID --->	44550.06		44550.08		44550.05		44538.10		44538.11		44550.07	
	ID FROM REPORT -->	F20GP03601		F20GP03701		F20GP04001		F20GP04101		F20HP04101		F20GP04301	
	SAMPLE DATE ----->	10/03/00		10/03/00		10/02/00		10/02/00		10/02/00		10/03/00	
	DATE EXTRACTED -->	10/05/00		10/05/00		10/05/00		10/04/00		10/04/00		10/05/00	
	DATE ANALYZED --->	10/06/00		10/06/00		10/06/00		10/05/00		10/06/00		10/06/00	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	44550		44550		44550		44538		44538		44550	
91-20-3	Naphthalene	10.	U	19.		10.	U	10.	U	10.	U	34.	
56-55-3	Benzo(a)anthracene	10.	U	1.		10.	U	10.	U	10.	U	11.	
218-01-9	Chrysene	10.	U	2.	J	10.	U	10.	U	10.	U	11.	
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	5.	J
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	6.	J
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	7.	J	10.	U	10.	U	10.	U	10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	5.	J	10.	U	10.	U	10.	U	510.	D
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	26.	U	25.	U	25.	U	25.	U	25.	U	25.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	26.	U	25.	U	25.	U	25.	U	25.	U	25.	U
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

FDS CAR ADDENDUM
AREA 20
DPT GROUNDWATER RESULTS

SW846-SVOA													
	SAMPLE ID ------->	F20-G-P036-01		F20-G-P037-01		F20-G-P040-01		F20-G-P041-01		F20-H-P041-01		F20-G-P043-01	
	ORIGINAL ID ----->	F20GP03601		F20GP03701		F20GP04001		F20GP04101		F20HP04101		F20GP04301	
	LAB SAMPLE ID --->	44550.06		44550.08		44550.05		44538.10		44538.11		44550.07	
	ID FROM REPORT -->	F20GP03601		F20GP03701		F20GP04001		F20GP04101		F20HP04101		F20GP04301	
	SAMPLE DATE ----->	10/03/00		10/03/00		10/02/00		10/02/00		10/02/00		10/03/00	
	DATE EXTRACTED -->	10/05/00		10/05/00		10/05/00		10/04/00		10/04/00		10/05/00	
	DATE ANALYZED --->	10/06/00		10/06/00		10/06/00		10/05/00		10/06/00		10/06/00	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	44550		44550		44550		44538		44538		44550	
99-09-2	3-Nitroaniline	26.	U	25.	U	25.	U	25.	U	25.	U	25.	U
83-32-9	Acenaphthene	10.	U	29.		10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	26.	U	25.	U	25.	U	25.	U	25.	U	25.	U
100-02-7	4-Nitrophenol	26.	U	25.	U	25.	U	25.	U	25.	U	25.	U
132-64-9	Dibenzofuran	10.	U	11.		10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	18.		10.	U	10.	U	10.	U	44.	
100-01-6	4-Nitroaniline	26.	U	25.	U	25.	U	25.	U	25.	U	25.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	26.	U	25.	U	25.	U	25.	U	25.	U	25.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	26.	U	25.	U	25.	U	25.	U	25.	U	25.	U
85-01-8	Phenanthrene	10.	U	28.		10.	U	10.	U	10.	U	170.	D
120-12-7	Anthracene	10.	U	6.	J	10.	U	10.	U	10.	U	21.	
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	12.		10.	U	10.	U	10.	U	29.	
129-00-0	Pyrene	10.	U	8.	J	10.	U	10.	U	10.	U	24.	
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	6.	J
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	2.	
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	2.	

FDS CAR ADDENDUM
AREA 20
DPT GROUNDWATER RESULTS

SW846-SVOA									
	SAMPLE ID ------->	F20-G-P044-01		F20-G-P045-01					
	ORIGINAL ID ----->	F20GP04401		F20GP04501					
	LAB SAMPLE ID --->	44538.12		44550.09					
	ID FROM REPORT -->	F20GP04401		F20GP04501					
	SAMPLE DATE ----->	10/02/00		10/03/00					
	DATE EXTRACTED -->	10/04/00		10/05/00					
	DATE ANALYZED --->	10/05/00		10/06/00					
	MATRIX ---------->	Water		Water					
	UNITS ---------->	UG/L		UG/L					
CAS #	Parameter	44538		44550					
91-20-3	Naphthalene	6.	J	10.	U				
56-55-3	Benzo(a)anthracene	10.	U	10.	U				
218-01-9	Chrysene	10.	U	10.	U				
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U				
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U				
108-95-2	Phenol	10.	U	25.					
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U				
95-57-8	2-Chlorophenol	10.	U	10.	U				
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U				
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U				
100-51-6	Benzyl alcohol	10.	U	10.	U				
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U				
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U				
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U				
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U				
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U				
67-72-1	Hexachloroethane	10.	U	10.	U				
98-95-3	Nitrobenzene	10.	U	10.	U				
78-59-1	Isophorone	10.	U	10.	U				
88-75-5	2-Nitrophenol	10.	U	10.	U				
105-67-9	2,4-Dimethylphenol	10.	U	10.	U				
65-85-0	Benzoic acid	10.	U	7.	J				
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U				
120-83-2	2,4-Dichlorophenol	10.	U	10.	U				
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U				
106-47-8	4-Chloroaniline	10.	U	10.	U				
87-68-3	Hexachlorobutadiene	10.	U	10.	U				
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U				
91-57-6	2-Methylnaphthalene	27.		10.	U				
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U				
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U				
95-95-4	2,4,5-Trichlorophenol	25.	U	25.	U				
91-58-7	2-Chloronaphthalene	10.	U	10.	U				
88-74-4	2-Nitroaniline	25.	U	25.	U				
131-11-3	Dimethyl phthalate	10.	U	10.	U				
208-96-8	Acenaphthylene	10.	U	10.	U				

FDS CAR ADDENDUM
AREA 20
DPT GROUNDWATER RESULTS

SW846-SVOA											
	SAMPLE ID ------->	F20-G-P044-01		F20-G-P045-01							
	ORIGINAL ID ----->	F20GP04401		F20GP04501							
	LAB SAMPLE ID --->	44538.12		44550.09							
	ID FROM REPORT -->	F20GP04401		F20GP04501							
	SAMPLE DATE ----->	10/02/00		10/03/00							
	DATE EXTRACTED -->	10/04/00		10/05/00							
	DATE ANALYZED --->	10/05/00		10/06/00							
	MATRIX ---------->	Water		Water							
	UNITS ---------->	UG/L		UG/L							
CAS #	Parameter	44538		44550							
99-09-2	3-Nitroaniline	25.	U	25.	U						
83-32-9	Acenaphthene	10.	U	10.	U						
51-28-5	2,4-Dinitrophenol	25.	U	25.	U						
100-02-7	4-Nitrophenol	25.	U	25.	U						
132-64-9	Dibenzofuran	10.	U	10.	U						
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U						
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U						
84-66-2	Diethylphthalate	10.	U	10.	U						
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U						
86-73-7	Fluorene	10.	U	10.	U						
100-01-6	4-Nitroaniline	25.	U	25.	U						
534-52-1	2-Methyl-4,6-Dinitrophenol	25.	U	25.	U						
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U						
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U						
118-74-1	Hexachlorobenzene	10.	U	10.	U						
87-86-5	Pentachlorophenol	25.	U	25.	U						
85-01-8	Phenanthrene	10.	U	10.	U						
120-12-7	Anthracene	10.	U	10.	U						
84-74-2	Di-n-butylphthalate	10.	U	10.	U						
206-44-0	Fluoranthene	10.	U	10.	U						
129-00-0	Pyrene	10.	U	10.	U						
85-68-7	Butylbenzylphthalate	10.	U	10.	U						
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U						
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U						
117-84-0	Di-n-octyl phthalate	10.	U	10.	U						
50-32-8	Benzo(a)pyrene	10.	U	10.	U						
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U						
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U						
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U						

FDS CAR ADDENDUM
AREA 20
DPT GROUNDWATER RESULTS

SW846-VOA													
	SAMPLE ID ------->	F20-G-P036-01		F20-G-P037-01		F20-G-P040-01		F20-G-P041-01		F20-H-P041-01		F20-G-P043-01	
	ORIGINAL ID ----->	F20GP03601		F20GP03701		F20GP04001		F20GP04101		F20HP04101		F20GP04301	
	LAB SAMPLE ID --->	44550.06		44550.08		44550.05		44538.10		44538.11		44550.07	
	ID FROM REPORT -->	F20GP03601		F20GP03701		F20GP04001		F20GP04101		F20HP04101		F20GP04301	
	SAMPLE DATE ----->	10/03/00		10/03/00		10/02/00		10/02/00		10/02/00		10/03/00	
	DATE ANALYZED --->	10/05/00		10/05/00		10/05/00		10/04/00		10/05/00		10/05/00	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	44550		44550		44550		44538		44538		44550	
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
74-87-3	Chloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
74-83-9	Bromomethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-01-4	Vinyl chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-00-3	Chloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	28.		5.	U	5.	U	5.	U	5.	U	5.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
591-78-6	2-Hexanone	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
110-75-8	2-Chloroethyl vinyl ether	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U

FDS CAR ADDENDUM
AREA 20
DPT GROUNDWATER RESULTS

SW846-VOA											
	SAMPLE ID ------->	F20-G-P044-01		F20-G-P045-01							
	ORIGINAL ID ----->	F20GP04401		F20GP04501							
	LAB SAMPLE ID --->	44538.12		44550.09							
	ID FROM REPORT -->	F20GP04401		F20GP04501							
	SAMPLE DATE ----->	10/02/00		10/03/00							
	DATE ANALYZED --->	10/05/00		10/05/00							
	MATRIX ---------->	Water		Water							
	UNITS ---------->	UG/L		UG/L							
CAS #	Parameter	44538		44550							
71-43-2	Benzene	5.	U	5.	U						
100-41-4	Ethylbenzene	5.	U	5.	U						
108-88-3	Toluene	5.	U	5.	U						
1330-20-7	Xylene (Total)	5.	U	5.	U						
74-87-3	Chloromethane	5.	U	5.	U						
74-83-9	Bromomethane	5.	U	5.	U						
75-01-4	Vinyl chloride	5.	U	5.	U						
75-00-3	Chloroethane	5.	U	5.	U						
75-09-2	Methylene chloride	5.	U	5.	U						
67-64-1	Acetone	5.	U	8.							
75-15-0	Carbon disulfide	5.	U	5.	U						
75-35-4	1,1-Dichloroethene	5.	U	5.	U						
75-34-3	1,1-Dichloroethane	5.	U	5.	U						
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U						
67-66-3	Chloroform	5.	U	5.	U						
107-06-2	1,2-Dichloroethane	5.	U	5.	U						
78-93-3	2-Butanone (MEK)	5.	U	5.	U						
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U						
56-23-5	Carbon tetrachloride	5.	U	5.	U						
108-05-4	Vinyl acetate	5.	U	5.	U						
75-27-4	Bromodichloromethane	5.	U	5.	U						
78-87-5	1,2-Dichloropropane	5.	U	5.	U						
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U						
79-01-6	Trichloroethene	5.	U	5.	U						
124-48-1	Dibromochloromethane	5.	U	5.	U						
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U						
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U						
75-25-2	Bromoform	5.	U	5.	U						
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.	U	5.	U						
591-78-6	2-Hexanone	5.	U	5.	U						
127-18-4	Tetrachloroethene	5.	U	5.	U						
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U						
108-90-7	Chlorobenzene	5.	U	5.	U						
100-42-5	Styrene	5.	U	5.	U						
110-75-8	2-Chloroethyl vinyl ether	5.	U	5.	U						

FDS CAR ADDENDUM
AREA 20
MONITORING WELL RESULTS

SW846VOA													
	SAMPLE ID ------->	FDS-G-W20A-01		FDS-H-W20A-01		FDS-G-W20B-01		FDS-G-W20C-01		FDS-G-W20D-01		FDS-G-W20E-01	
	ORIGINAL ID ----->	FDSGW20A01		FDSHW20A01		FDSGW20B01		FDSGW20C01		FDSGW20D01		FDSGW20E01	
	LAB SAMPLE ID --->	41268.01		41268.04		41268.03		41314.01		41314.03		41314.04	
	ID FROM REPORT -->	FDSGW20A01		FDSHW20A01		FDSGW20B01		FDSGW20C01		FDSGW20D01		FDSGW20E01	
	SAMPLE DATE ----->	12/01/99		12/01/99		12/01/99		12/02/99		12/02/99		12/02/99	
	DATE ANALYZED --->	12/03/99		12/03/99		12/03/99		12/06/99		12/06/99		12/06/99	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	41268	VAL	41268	VAL	41268	VAL	41314	VAL	41314	VAL	41314	VAL
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
106-93-4	1, 2-Dibromoethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1634-04-4	Methyl tert-butyl ether	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U

FDS CAR ADDENDUM
AREA 20
MONITORING WELL RESULTS

SW846VOA

SAMPLE ID ------->	FDS-G-W20F-01
ORIGINAL ID ----->	FDSGW20F01
LAB SAMPLE ID --->	41314.05
ID FROM REPORT -->	FDSGW20F01
SAMPLE DATE ----->	12/02/99
DATE ANALYZED --->	12/06/99
MATRIX ---------->	Water
UNITS ----------->	UG/L

CAS #	Parameter	41314	VAL
71-43-2	Benzene	5.	U
106-93-4	1, 2-Dibromoethane	5.	U
100-41-4	Ethylbenzene	5.	U
108-88-3	Toluene	5.	U
1634-04-4	Methyl tert-butyl ether	5.	U
1330-20-7	Xylene (Total)	5.	U

FDS CAR ADDENDUM
AREA 20
MONITORING WELL RESULTS

SW-SVOA											
	SAMPLE ID ------->	FDS-G-W20A-01		FDS-H-W20A-01		FDS-G-W20B-01					
	ORIGINAL ID ----->	FDSGW20A01		FDSHW20A01		FDSGW20B01					
	LAB SAMPLE ID --->	41268.01		41268.04		41268.03					
	ID FROM REPORT -->	FDSGW20A01		FDSHW20A01		FDSGW20B01					
	SAMPLE DATE ----->	12/01/99		12/01/99		12/01/99					
	DATE EXTRACTED -->	12/03/99		12/03/99		12/03/99					
	DATE ANALYZED --->	12/06/99		12/08/99		12/06/99					
	MATRIX ---------->	Water		Water		Water					
	UNITS ---------->	UG/L		UG/L		UG/L					
CAS #	Parameter	41268	VAL	41268	VAL	41268	VAL				
108-95-2	Phenol	10.	U	1.	J	10.	U				
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U				
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U				
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U				
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U				
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U				
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U				
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U				
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U				
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	1.	J				
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U				
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U				
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U				
78-59-1	Isophorone	10.	U	10.	U	10.	U				
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U				
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U				
65-85-0	Benzoic acid	2.	J	1.	J	2.	J				
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U				
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U				
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U				
91-20-3	Naphthalene	10.	U	10.	U	10.	U				
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U				
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U				
59-50-7	4-Chloro-3-methylphenol	10.	U	1.	J	10.	U				
91-57-6	2-Methylnaphthalene	3.	J	3.	J	10.	U				
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U				
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U				
95-95-4	2,4,5-Trichlorophenol	25.	U	25.	U	25.	U				
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U				
88-74-4	2-Nitroaniline	25.	U	25.	U	25.	U				
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U				
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U				
99-09-2	3-Nitroaniline	25.	U	25.	U	25.	U				
83-32-9	Acenaphthene	2.	J	2.	J	10.	U				
51-28-5	2,4-Dinitrophenol	25.	U	25.	U	25.	U				
100-02-7	4-Nitrophenol	25.	U	25.	U	25.	U				

FDS CAR ADDENDUM
AREA 20
MONITORING WELL RESULTS

SW-SVOA											
	SAMPLE ID ------->	FDS-G-W20A-01		FDS-H-W20A-01		FDS-G-W20B-01					
	ORIGINAL ID ----->	FDSGW20A01		FDSHW20A01		FDSGW20B01					
	LAB SAMPLE ID --->	41268.01		41268.04		41268.03					
	ID FROM REPORT -->	FDSGW20A01		FDSHW20A01		FDSGW20B01					
	SAMPLE DATE ----->	12/01/99		12/01/99		12/01/99					
	DATE EXTRACTED -->	12/03/99		12/03/99		12/03/99					
	DATE ANALYZED --->	12/06/99		12/08/99		12/06/99					
	MATRIX ---------->	Water		Water		Water					
	UNITS ---------->	UG/L		UG/L		UG/L					
CAS #	Parameter	41268	VAL	41268	VAL	41268	VAL				
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U				
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U				
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U				
84-66-2	Diethylphthalate	10.	U	1.	J	10.	U				
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U				
86-73-7	Fluorene	10.	U	10.	U	10.	U				
100-01-6	4-Nitroaniline	25.	U	25.	U	25.	U				
534-52-1	2-Methyl-4,6-Dinitrophenol	25.	U	25.	U	25.	U				
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U				
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U				
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U				
87-86-5	Pentachlorophenol	25.	U	25.	U	25.	U				
85-01-8	Phenanthrene	10.	U	1.	J	1.	J				
120-12-7	Anthracene	1.	J	10.	U	10.	U				
84-74-2	Di-n-butylphthalate	1.	J	1.	J	1.	J				
206-44-0	Fluoranthene	10.	U	10.	U	10.	U				
129-00-0	Pyrene	10.	U	1.	J	10.	U				
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U				
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U	10.	U				
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U				
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U				
218-01-9	Chrysene	10.	U	10.	U	10.	U				
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U				
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U				
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U				
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U				
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U				
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U				
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U				

FDS CAR ADDENDUM
AREA 20
MONITORING WELL RESULTS

SW846SVOA									
	SAMPLE ID ------->	FDS-G-W20C-01		FDS-G-W20D-01		FDS-G-W20E-01		FDS-G-W20F-01	
	ORIGINAL ID ----->	FDSGW20C01		FDSGW20D01		FDSGW20E01		FDSGW20F01	
	LAB SAMPLE ID --->	41314.01		41314.03		41314.04		41314.05	
	ID FROM REPORT -->	FDSGW20C01		FDSGW20D01		FDSGW20E01		FDSGW20F01	
	SAMPLE DATE ----->	12/02/99		12/02/99		12/02/99		12/02/99	
	DATE EXTRACTED -->	12/05/99		12/05/99		12/05/99		12/05/99	
	DATE ANALYZED --->	12/08/99		12/08/99		12/08/99		12/08/99	
	MATRIX ---------->	Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	41314	VAL	41314	VAL	41314	VAL	41314	VAL
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	1.	J	10.	U	8.	J	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	1.	J	1.	J	4.	J	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	1.	J	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	2.	J	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U	25.	U	25.	U	25.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	25.	U	25.	U	25.	U	25.	U
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	25.	U	25.	U	25.	U	25.	U
83-32-9	Acenaphthene	5.	J	10.	U	1.	J	2.	J
51-28-5	2,4-Dinitrophenol	25.	U	25.	U	25.	U	25.	U
100-02-7	4-Nitrophenol	1.	J	25.	U	25.	U	25.	U

FDS CAR ADDENDUM
AREA 20
MONITORING WELL RESULTS

SW846SVOA									
	SAMPLE ID ------->	FDS-G-W20C-01		FDS-G-W20D-01		FDS-G-W20E-01		FDS-G-W20F-01	
	ORIGINAL ID ----->	FDSGW20C01		FDSGW20D01		FDSGW20E01		FDSGW20F01	
	LAB SAMPLE ID --->	41314.01		41314.03		41314.04		41314.05	
	ID FROM REPORT -->	FDSGW20C01		FDSGW20D01		FDSGW20E01		FDSGW20F01	
	SAMPLE DATE ----->	12/02/99		12/02/99		12/02/99		12/02/99	
	DATE EXTRACTED -->	12/05/99		12/05/99		12/05/99		12/05/99	
	DATE ANALYZED --->	12/08/99		12/08/99		12/08/99		12/08/99	
	MATRIX ---------->	Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	41314	VAL	41314	VAL	41314	VAL	41314	VAL
132-64-9	Dibenzofuran	2.	J	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	4.	J	10.	U	10.	U	1.	J
100-01-6	4-Nitroaniline	25.	U	25.	U	25.	U	25.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	25.	U	25.	U	25.	U	25.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	1.	J	25.	U	25.	U	25.	U
85-01-8	Phenanthrene	7.	J	10.	U	2.	J	10.	U
120-12-7	Anthracene	1.	J	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	0.6	J	1.	J	10.	U	10.	U
206-44-0	Fluoranthene	1.	J	10.	U	10.	U	10.	U
129-00-0	Pyrene	1.	J	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U	10.	U	10.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	16.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	UJ	10.	UJ	10.	UJ	10.	UJ
53-70-3	Dibenz(a,h)anthracene	10.	UJ	10.	UJ	10.	UJ	10.	UJ
191-24-2	Benzo(g,h,i)perylene	10.	UJ	10.	UJ	10.	UJ	10.	UJ

FDS CAR ADDENDUM
AREA 20
MONITORING WELL RESULTS

SW846META																	
		SAMPLE ID ------->	FDS-G-W20A-01		FDS-H-W20A-01		FDS-G-W20B-01		FDS-G-W20C-01		FDS-G-W20D-01		FDS-G-W20E-01	
		ORIGINAL ID ----->	FDSGW20A01		FDSHW20A01		FDSGW20B01		FDSGW20C01		FDSGW20D01		FDSGW20E01	
		LAB SAMPLE ID --->	41268.01		41268.04		41268.03		41314.01		41314.03		41314.04	
		ID FROM REPORT -->	FDSGW20A01		FDSHW20A01		FDSGW20B01		FDSGW20C01		FDSGW20D01		FDSGW20E01	
		SAMPLE DATE ----->	12/01/99		12/01/99		12/01/99		12/02/99		12/02/99		12/02/99	
		DATE EXTRACTED -->	12/06/99		12/06/99		12/06/99		12/06/99		12/06/99		12/06/99	
		DATE ANALYZED --->	12/07/99		12/07/99		12/07/99		12/06/99		12/06/99		12/06/99	
		MATRIX ---------->	Water		Water		Water		Water		Water		Water	
		UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter		41268	VAL	41268	VAL	41268	VAL	41314	VAL	41314	VAL	41314	VAL
7439-97-6	Mercury (Hg)		0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7440-38-2	Arsenic (As)		3.3	U	5.5	J	11.3		13.4		3.7	J	15.8	
7440-39-3	Barium (Ba)		93.3		95.8		142.		428.		79.3		146.	
7440-43-9	Cadmium (Cd)		0.46	U	0.3	U	0.3	U	1.2	J	0.36	J	0.89	J
7440-47-3	Chromium (Cr)		1.1	J	1.2	J	2.	J	3.9	J	2.6	J	2.4	J
7439-92-1	Lead (Pb)		2.1	U	2.1	U	2.2	J	3.1		2.1	U	2.1	U
7782-49-2	Selenium (Se)		2.9	U	2.9	U	2.9	U	2.9	U	2.9	U	2.9	U
7440-22-4	Silver (Ag)		2.	U	2.	U	2.	U	2.	U	2.	U	2.	U

FDS CAR ADDENDUM
AREA 20
MONITORING WELL RESULTS

SW846META

SAMPLE ID ------->	FDS-G-W20F-01
ORIGINAL ID ----->	FDSGW20F01
LAB SAMPLE ID --->	41314.05
ID FROM REPORT -->	FDSGW20F01
SAMPLE DATE ----->	12/02/99
DATE EXTRACTED -->	12/06/99
DATE ANALYZED --->	12/06/99
MATRIX ---------->	Water
UNITS ----------->	UG/L

CAS #	Parameter	41314	VAL
7439-97-6	Mercury (Hg)	0.1	U
7440-38-2	Arsenic (As)	3.3	U
7440-39-3	Barium (Ba)	45.4	
7440-43-9	Cadmium (Cd)	0.3	U
7440-47-3	Chromium (Cr)	0.56	J
7439-92-1	Lead (Pb)	2.1	U
7782-49-2	Selenium (Se)	2.9	U
7440-22-4	Silver (Ag)	2.	U

FDS CAR ADDENDUM
AREA 21
DPT SOIL RESULTS

SW846-SVOA													
	SAMPLE ID ------->	HFF-S-P001-01		HFF-S-P001-02		HFF-S-P002-01		HFF-S-P002-02		HFF-S-P003-01		HFF-S-P003-02	
	ORIGINAL ID ----->	HFFSP00101		HFFSP00102		HFFSP00201		HFFSP00202		HFFSP00301		HFFSP00302	
	LAB SAMPLE ID --->	44523.07		44523.08		44523.09		44523.10		44523.11		44523.12	
	ID FROM REPORT -->	HFFSP00101		HFFSP00102		HFFSP00201		HFFSP00202		HFFSP00301		HFFSP00302	
	SAMPLE DATE ----->	09/29/00		09/29/00		09/29/00		09/29/00		09/29/00		09/29/00	
	DATE EXTRACTED -->	09/30/00		09/30/00		09/30/00		09/30/00		09/30/00		09/30/00	
	DATE ANALYZED --->	10/02/00		10/02/00		10/02/00		10/03/00		10/02/00		10/02/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	44523		44523		44523		44523		44523		44523	
91-20-3	Naphthalene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
56-55-3	Benzo(a)anthracene	400.	U	390.	U	380.	U	75.	J	390.	U	78.	J
218-01-9	Chrysene	400.	U	390.	U	380.	U	130.	J	390.	U	89.	J
205-99-2	Benzo(b)fluoranthene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
207-08-9	Benzo(k)fluoranthene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
108-95-2	Phenol	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
111-44-4	bis(2-Chloroethyl)ether	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
95-57-8	2-Chlorophenol	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
541-73-1	1,3-Dichlorobenzene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
106-46-7	1,4-Dichlorobenzene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
100-51-6	Benzyl alcohol	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
95-50-1	1,2-Dichlorobenzene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
95-48-7	2-Methylphenol (o-Cresol)	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
106-44-5	4-Methylphenol (p-Cresol)	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
621-64-7	N-Nitroso-di-n-propylamine	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
67-72-1	Hexachloroethane	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
98-95-3	Nitrobenzene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
78-59-1	Isophorone	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
88-75-5	2-Nitrophenol	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
105-67-9	2,4-Dimethylphenol	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
65-85-0	Benzoic acid	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
111-91-1	bis(2-Chloroethoxy)methane	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
120-83-2	2,4-Dichlorophenol	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
120-82-1	1,2,4-Trichlorobenzene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
106-47-8	4-Chloroaniline	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
87-68-3	Hexachlorobutadiene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
59-50-7	4-Chloro-3-methylphenol	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
91-57-6	2-Methylnaphthalene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
77-47-4	Hexachlorocyclopentadiene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
88-06-2	2,4,6-Trichlorophenol	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
95-95-4	2,4,5-Trichlorophenol	1000.	U	980.	U	950.	U	1300.	U	970.	U	1400.	U
91-58-7	2-Chloronaphthalene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
88-74-4	2-Nitroaniline	1000.	U	980.	U	950.	U	1300.	U	970.	U	1400.	U
131-11-3	Dimethyl phthalate	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
208-96-8	Acenaphthylene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U

FDS CAR ADDENDUM
AREA 21
DPT SOIL RESULTS

SW846-SVOA													
	SAMPLE ID ------->	HFF-S-P001-01		HFF-S-P001-02		HFF-S-P002-01		HFF-S-P002-02		HFF-S-P003-01		HFF-S-P003-02	
	ORIGINAL ID ----->	HFFSP00101		HFFSP00102		HFFSP00201		HFFSP00202		HFFSP00301		HFFSP00302	
	LAB SAMPLE ID --->	44523.07		44523.08		44523.09		44523.10		44523.11		44523.12	
	ID FROM REPORT -->	HFFSP00101		HFFSP00102		HFFSP00201		HFFSP00202		HFFSP00301		HFFSP00302	
	SAMPLE DATE ----->	09/29/00		09/29/00		09/29/00		09/29/00		09/29/00		09/29/00	
	DATE EXTRACTED -->	09/30/00		09/30/00		09/30/00		09/30/00		09/30/00		09/30/00	
	DATE ANALYZED --->	10/02/00		10/02/00		10/02/00		10/03/00		10/02/00		10/02/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	44523		44523		44523		44523		44523		44523	
99-09-2	3-Nitroaniline	1000.	U	980.	U	950.	U	1300.	U	970.	U	1400.	U
83-32-9	Acenaphthene	400.	U	390.	U	380.	U	66.	J	390.	U	570.	U
51-28-5	2,4-Dinitrophenol	1000.	U	980.	U	950.	U	1300.	U	970.	U	1400.	U
100-02-7	4-Nitrophenol	1000.	U	980.	U	950.	U	1300.	U	970.	U	1400.	U
132-64-9	Dibenzofuran	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
121-14-2	2,4-Dinitrotoluene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
606-20-2	2,6-Dinitrotoluene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
84-66-2	Diethylphthalate	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
7005-72-3	4-Chlorophenylphenylether	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
86-73-7	Fluorene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
100-01-6	4-Nitroaniline	1000.	U	980.	U	950.	U	1300.	U	970.	U	1400.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	1000.	U	980.	U	950.	U	1300.	U	970.	U	1400.	U
86-30-6	N-Nitrosodiphenylamine	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
101-55-3	4-Bromophenyl-phenylether	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
118-74-1	Hexachlorobenzene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
87-86-5	Pentachlorophenol	1000.	U	980.	U	950.	U	1300.	U	970.	U	1400.	U
85-01-8	Phenanthrene	400.	U	390.	U	380.	U	510.	U	390.	U	47.	J
120-12-7	Anthracene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
84-74-2	Di-n-butylphthalate	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
206-44-0	Fluoranthene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
129-00-0	Pyrene	400.	U	390.	U	380.	U	1100.		390.	U	570.	U
85-68-7	Butylbenzylphthalate	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
91-94-1	3,3'-Dichlorobenzidine	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
117-84-0	Di-n-octyl phthalate	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
50-32-8	Benzo(a)pyrene	400.	U	390.	U	380.	U	62.	J	390.	U	78.	J
193-39-5	Indeno(1,2,3-cd)pyrene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
53-70-3	Dibenz(a,h)anthracene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U
191-24-2	Benzo(g,h,i)perylene	400.	U	390.	U	380.	U	510.	U	390.	U	570.	U

FDS CAR ADDENDUM
AREA 21
DPT SOIL RESULTS

SW846-SVOA													
	SAMPLE ID ------->	HFF-S-P004-01		HFF-S-P004-02		HFF-S-P005-01		HFF-S-P005-02		HFF-S-P006-01		HFF-C-P006-01	
	ORIGINAL ID ----->	HFFSP00401		HFFSP00402		HFFSP00501		HFFSP00502		HFFSP00601		HFFCP00601	
	LAB SAMPLE ID --->	44523.05		44523.06		44523.03		44523.04		44513.07		44550.03	
	ID FROM REPORT -->	HFFSP00401		HFFSP00402		HFFSP00501		HFFSP00502		HFFSP00601		HFFCP00601	
	SAMPLE DATE ----->	09/29/00		09/29/00		09/29/00		09/29/00		09/28/00		10/03/00	
	DATE EXTRACTED -->	09/30/00		09/30/00		09/30/00		09/30/00		09/29/00		10/05/00	
	DATE ANALYZED --->	10/04/00		10/02/00		10/03/00		10/02/00		10/02/00		10/10/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	44523		44523		44523		44523		44513		44550	
91-20-3	Naphthalene	3900.	U	610.	U	360.	U	390.	U	2000.		210.	J
56-55-3	Benzo(a)anthracene	13000.		31.	J	830.		390.	U	30000.	D	900.	
218-01-9	Chrysene	13000.		33.	J	850.		390.	U	27000.	D	860.	
205-99-2	Benzo(b)fluoranthene	12000.		610.	U	660.		390.	U	34000.	D	660.	
207-08-9	Benzo(k)fluoranthene	8700.		610.	U	740.		390.	U	17000.	D	540.	
108-95-2	Phenol	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
111-44-4	bis(2-Chloroethyl)ether	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
95-57-8	2-Chlorophenol	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
541-73-1	1,3-Dichlorobenzene	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
106-46-7	1,4-Dichlorobenzene	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
100-51-6	Benzyl alcohol	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
95-50-1	1,2-Dichlorobenzene	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
95-48-7	2-Methylphenol (o-Cresol)	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
106-44-5	4-Methylphenol (p-Cresol)	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
621-64-7	N-Nitroso-di-n-propylamine	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
67-72-1	Hexachloroethane	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
98-95-3	Nitrobenzene	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
78-59-1	Isophorone	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
88-75-5	2-Nitrophenol	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
105-67-9	2,4-Dimethylphenol	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
65-85-0	Benzoic acid	3900.	U	420.	J	360.	U	390.	U	340.	U	260.	J
111-91-1	bis(2-Chloroethoxy)methane	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
120-83-2	2,4-Dichlorophenol	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
120-82-1	1,2,4-Trichlorobenzene	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
106-47-8	4-Chloroaniline	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
87-68-3	Hexachlorobutadiene	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
59-50-7	4-Chloro-3-methylphenol	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
91-57-6	2-Methylnaphthalene	3900.	U	610.	U	360.	U	390.	U	1500.		120.	J
77-47-4	Hexachlorocyclopentadiene	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
88-06-2	2,4,6-Trichlorophenol	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
95-95-4	2,4,5-Trichlorophenol	9700.	U	1500.	U	900.	U	960.	U	850.	U	1000.	U
91-58-7	2-Chloronaphthalene	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
88-74-4	2-Nitroaniline	9700.	U	1500.	U	900.	U	960.	U	850.	U	1000.	U
131-11-3	Dimethyl phthalate	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
208-96-8	Acenaphthylene	3900.	U	610.	U	360.	U	390.	U	300.	J	410.	U

FDS CAR ADDENDUM
AREA 21
DPT SOIL RESULTS

SW846-SVOA	SAMPLE ID ------->	HFF-S-P004-01		HFF-S-P004-02		HFF-S-P005-01		HFF-S-P005-02		HFF-S-P006-01		HFF-C-P006-01	
	ORIGINAL ID ----->	HFFSP00401		HFFSP00402		HFFSP00501		HFFSP00502		HFFSP00601		HFFCP00601	
	LAB SAMPLE ID --->	44523.05		44523.06		44523.03		44523.04		44513.07		44550.03	
	ID FROM REPORT -->	HFFSP00401		HFFSP00402		HFFSP00501		HFFSP00502		HFFSP00601		HFFCP00601	
	SAMPLE DATE ----->	09/29/00		09/29/00		09/29/00		09/29/00		09/28/00		10/03/00	
	DATE EXTRACTED -->	09/30/00		09/30/00		09/30/00		09/30/00		09/29/00		10/05/00	
	DATE ANALYZED --->	10/04/00		10/02/00		10/03/00		10/02/00		10/02/00		10/10/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	44523		44523		44523		44523		44513		44550	
99-09-2	3-Nitroaniline	9700.	U	1500.	U	900.	U	960.	U	850.	U	1000.	U
83-32-9	Acenaphthene	1500.		610.	U	62.	J	390.	U	7400.	D	320.	J
51-28-5	2,4-Dinitrophenol	9700.	U	1500.	U	900.	U	960.	U	850.	U	1000.	U
100-02-7	4-Nitrophenol	9700.	U	1500.	U	900.	U	960.	U	850.	U	1000.	U
132-64-9	Dibenzofuran	3900.	U	610.	U	360.	U	390.	U	5100.	D	280.	J
121-14-2	2,4-Dinitrotoluene	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
606-20-2	2,6-Dinitrotoluene	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
84-66-2	Diethylphthalate	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
7005-72-3	4-Chlorophenylphenylether	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
86-73-7	Fluorene	1700.	J	610.	U	70.	J	390.	U	10000.	D	510.	
100-01-6	4-Nitroaniline	9700.	U	1500.	U	900.	U	960.	U	850.	U	1000.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	9700.	U	1500.	U	900.	U	960.	U	850.	U	1000.	U
86-30-6	N-Nitrosodiphenylamine	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
101-55-3	4-Bromophenyl-phenylether	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
118-74-1	Hexachlorobenzene	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
87-86-5	Pentachlorophenol	9700.	U	1500.	U	900.	U	960.	U	850.	U	1000.	U
85-01-8	Phenanthrene	14000.		610.	U	670.		390.	U	66000.	D	2100.	
120-12-7	Anthracene	4500.		610.	U	260.	J	390.	U	340.	U	810.	
84-74-2	Di-n-butylphthalate	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
206-44-0	Fluoranthene	27000.		610.	U	1500.		390.	U	71000.	D	2100.	
129-00-0	Pyrene	20000.		610.	U	1600.		390.	U	49000.	D	1400.	
85-68-7	Butylbenzylphthalate	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
91-94-1	3,3'-Dichlorobenzidine	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	3900.	U	610.	U	360.	U	390.	U	180.	J	410.	U
117-84-0	Di-n-octyl phthalate	3900.	U	610.	U	360.	U	390.	U	340.	U	410.	U
50-32-8	Benzo(a)pyrene	11000.		610.	U	770.		390.	U	21000.	D	700.	
193-39-5	Indeno(1,2,3-cd)pyrene	4800.		610.	U	360.		390.	U	9400.	D	310.	J
53-70-3	Dibenz(a,h)anthracene	1200.	J	610.	U	360.	U	390.	U	1200.		410.	U
191-24-2	Benzo(g,h,i)perylene	3800.	J	610.	U	300.	J	390.	U	9200.	D	240.	J

FDS CAR ADDENDUM
AREA 21
DPT SOIL RESULTS

SW846-SVOA													
	SAMPLE ID ------->	HFF-S-P006-02		HFF-C-P006-02		HFF-S-P007-01		HFF-S-P007-02		HFF-S-P008-01		HFF-S-P008-02	
	ORIGINAL ID ----->	HFFSP00602		HFFCP00602		HFFSP00701		HFFSP00702		HFFSP00801		HFFSP00802	
	LAB SAMPLE ID --->	44513.08		44550.04		44523.01		44523.02		44513.05		44513.06	
	ID FROM REPORT -->	HFFSP00602		HFFCP00602		HFFSP00701		HFFSP00702		HFFSP00801		HFFSP00802	
	SAMPLE DATE ----->	09/28/00		10/03/00		09/29/00		09/29/00		09/28/00		09/28/00	
	DATE EXTRACTED -->	09/29/00		10/05/00		09/30/00		09/30/00		09/29/00		09/29/00	
	DATE ANALYZED --->	10/03/00		10/09/00		10/03/00		10/02/00		10/03/00		10/03/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	44513		44550		44523		44523		44513		44513	
91-20-3	Naphthalene	440.	U	440.	U	410.	U	410.	U	340.	U	4200.	D
56-55-3	Benzo(a)anthracene	440.	U	440.	U	2100.	D	410.	U	26.	J	9500.	D
218-01-9	Chrysene	440.	U	440.	U	2100.	D	410.	U	28.	J	8500.	D
205-99-2	Benzo(b)fluoranthene	440.	U	440.	U	1400.	D	410.	U	340.	U	11000.	D
207-08-9	Benzo(k)fluoranthene	440.	U	440.	U	1700.	D	410.	U	340.	U	380.	U
108-95-2	Phenol	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
111-44-4	bis(2-Chloroethyl)ether	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
95-57-8	2-Chlorophenol	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
541-73-1	1,3-Dichlorobenzene	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
106-46-7	1,4-Dichlorobenzene	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
100-51-6	Benzyl alcohol	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
95-50-1	1,2-Dichlorobenzene	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
95-48-7	2-Methylphenol (o-Cresol)	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
106-44-5	4-Methylphenol (p-Cresol)	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
621-64-7	N-Nitroso-di-n-propylamine	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
67-72-1	Hexachloroethane	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
98-95-3	Nitrobenzene	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
78-59-1	Isophorone	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
88-75-5	2-Nitrophenol	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
105-67-9	2,4-Dimethylphenol	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
65-85-0	Benzoic acid	260.	J	440.	U	410.	U	410.	U	200.	J	380.	U
111-91-1	bis(2-Chloroethoxy)methane	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
120-83-2	2,4-Dichlorophenol	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
120-82-1	1,2,4-Trichlorobenzene	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
106-47-8	4-Chloroaniline	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
87-68-3	Hexachlorobutadiene	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
59-50-7	4-Chloro-3-methylphenol	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
91-57-6	2-Methylnaphthalene	440.	U	440.	U	410.	U	410.	U	340.	U	3000.	D
77-47-4	Hexachlorocyclopentadiene	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
88-06-2	2,4,6-Trichlorophenol	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
95-95-4	2,4,5-Trichlorophenol	1100.	U	1100.	U	1000.	U	1000.	U	840.	U	960.	U
91-58-7	2-Chloronaphthalene	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
88-74-4	2-Nitroaniline	1100.	U	1100.	U	1000.	U	1000.	U	840.	U	960.	U
131-11-3	Dimethyl phthalate	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
208-96-8	Acenaphthylene	440.	U	440.	U	410.	U	410.	U	340.	U	290.	J

FDS CAR ADDENDUM
AREA 21
DPT SOIL RESULTS

SW846-SVOA													
	SAMPLE ID ------->	HFF-S-P006-02		HFF-C-P006-02		HFF-S-P007-01		HFF-S-P007-02		HFF-S-P008-01		HFF-S-P008-02	
	ORIGINAL ID ----->	HFFSP00602		HFFCP00602		HFFSP00701		HFFSP00702		HFFSP00801		HFFSP00802	
	LAB SAMPLE ID --->	44513.08		44550.04		44523.01		44523.02		44513.05		44513.06	
	ID FROM REPORT -->	HFFSP00602		HFFCP00602		HFFSP00701		HFFSP00702		HFFSP00801		HFFSP00802	
	SAMPLE DATE ----->	09/28/00		10/03/00		09/29/00		09/29/00		09/28/00		09/28/00	
	DATE EXTRACTED -->	09/29/00		10/05/00		09/30/00		09/30/00		09/29/00		09/29/00	
	DATE ANALYZED --->	10/03/00		10/09/00		10/03/00		10/02/00		10/03/00		10/03/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	44513		44550		44523		44523		44513		44513	
99-09-2	3-Nitroaniline	1100.	U	1100.	U	1000.	U	1000.	U	840.	U	960.	U
83-32-9	Acenaphthene	440.	U	440.	U	280.	J	410.	U	340.	U	8800.	D
51-28-5	2,4-Dinitrophenol	1100.	U	1100.	U	1000.	U	1000.	U	840.	U	960.	U
100-02-7	4-Nitrophenol	1100.	U	1100.	U	1000.	U	1000.	U	840.	U	960.	U
132-64-9	Dibenzofuran	440.	U	440.	U	140.	J	410.	U	340.	U	5000.	D
121-14-2	2,4-Dinitrotoluene	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
606-20-2	2,6-Dinitrotoluene	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
84-66-2	Diethylphthalate	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
7005-72-3	4-Chlorophenylphenylether	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
86-73-7	Fluorene	440.	U	440.	U	360.	J	410.	U	340.	U	8400.	D
100-01-6	4-Nitroaniline	1100.	U	1100.	U	1000.	U	1000.	U	840.	U	960.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	1100.	U	1100.	U	1000.	U	1000.	U	840.	U	960.	U
86-30-6	N-Nitrosodiphenylamine	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
101-55-3	4-Bromophenyl-phenylether	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
118-74-1	Hexachlorobenzene	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
87-86-5	Pentachlorophenol	1100.	U	1100.	U	1000.	U	1000.	U	840.	U	960.	U
85-01-8	Phenanthrene	440.	U	440.	U	3000.	D	410.	U	70.	J	31000.	D
120-12-7	Anthracene	440.	U	440.	U	990.	D	410.	U	340.	U	6300.	D
84-74-2	Di-n-butylphthalate	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
206-44-0	Fluoranthene	440.	U	440.	U	4000.	D	410.	U	340.	U	24000.	D
129-00-0	Pyrene	440.	U	440.	U	4200.	D	410.	U	340.	U	22000.	D
85-68-7	Butylbenzylphthalate	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
91-94-1	3,3'-Dichlorobenzidine	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
117-84-0	Di-n-octyl phthalate	440.	U	440.	U	410.	U	410.	U	340.	U	380.	U
50-32-8	Benzo(a)pyrene	440.	U	440.	U	1600.		410.	U	340.	U	7400.	D
193-39-5	Indeno(1,2,3-cd)pyrene	440.	U	440.	U	900.		410.	U	340.	U	3600.	D
53-70-3	Dibenz(a,h)anthracene	440.	U	440.	U	210.	J	410.	U	340.	U	1400.	
191-24-2	Benzo(g,h,i)perylene	440.	U	440.	U	780.		410.	U	340.	U	4000.	D

FDS CAR ADDENDUM
AREA 21
DPT SOIL RESULTS

SW846-SVOA													
	SAMPLE ID ------->	HFF-S-P009-01		HFF-S-P009-02		HFF-S-P010-01		HFF-S-P010-02		HFF-S-P011-01		HFF-S-P011-02	
	ORIGINAL ID ----->	HFFSP00901		HFFSP00902		HFFSP01001		HFFSP01002		HFFSP01101		HFFSP01102	
	LAB SAMPLE ID --->	44513.03		44513.04		44513.01		44513.02		45080.01		45080.02	
	ID FROM REPORT -->	HFFSP00901		HFFSP00902		HFFSP01001		HFFSP01002		HFFSP01101		HFFSP01102	
	SAMPLE DATE ----->	09/28/00		09/28/00		09/28/00		09/28/00		11/15/00		11/15/00	
	DATE EXTRACTED -->	09/29/00		09/29/00		09/29/00		09/29/00		11/16/00		11/16/00	
	DATE ANALYZED --->	10/02/00		10/02/00		10/02/00		10/02/00		11/17/00		11/17/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	44513		44513		44513		44513		45080		45080	
91-20-3	Naphthalene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
56-55-3	Benzo(a)anthracene	360.	U	48.	J	480.	U	410.	U	380.	U	420.	U
218-01-9	Chrysene	360.	U	45.	J	480.	U	410.	U	380.	U	420.	U
205-99-2	Benzo(b)fluoranthene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
207-08-9	Benzo(k)fluoranthene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
108-95-2	Phenol	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
111-44-4	bis(2-Chloroethyl)ether	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
95-57-8	2-Chlorophenol	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
541-73-1	1,3-Dichlorobenzene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
106-46-7	1,4-Dichlorobenzene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
100-51-6	Benzyl alcohol	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
95-50-1	1,2-Dichlorobenzene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
95-48-7	2-Methylphenol (o-Cresol)	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
106-44-5	4-Methylphenol (p-Cresol)	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
621-64-7	N-Nitroso-di-n-propylamine	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
67-72-1	Hexachloroethane	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
98-95-3	Nitrobenzene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
78-59-1	Isophorone	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
88-75-5	2-Nitrophenol	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
105-67-9	2,4-Dimethylphenol	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
65-85-0	Benzoic acid	360.	U	410.	J	480.	U	410.	U	380.	U	420.	U
111-91-1	bis(2-Chloroethoxy)methane	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
120-83-2	2,4-Dichlorophenol	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
120-82-1	1,2,4-Trichlorobenzene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
106-47-8	4-Chloroaniline	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
87-68-3	Hexachlorobutadiene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
59-50-7	4-Chloro-3-methylphenol	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
91-57-6	2-Methylnaphthalene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
77-47-4	Hexachlorocyclopentadiene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
88-06-2	2,4,6-Trichlorophenol	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
95-95-4	2,4,5-Trichlorophenol	900.	U	1500.	U	1200.	U	1000.	U	940.	U	1000.	U
91-58-7	2-Chloronaphthalene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
88-74-4	2-Nitroaniline	900.	U	1500.	U	1200.	U	1000.	U	940.	U	1000.	U
131-11-3	Dimethyl phthalate	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
208-96-8	Acenaphthylene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U

FDS CAR ADDENDUM
AREA 21
DPT SOIL RESULTS

SW846-SVOA													
	SAMPLE ID ------->	HFF-S-P009-01		HFF-S-P009-02		HFF-S-P010-01		HFF-S-P010-02		HFF-S-P011-01		HFF-S-P011-02	
	ORIGINAL ID ----->	HFFSP00901		HFFSP00902		HFFSP01001		HFFSP01002		HFFSP01101		HFFSP01102	
	LAB SAMPLE ID --->	44513.03		44513.04		44513.01		44513.02		45080.01		45080.02	
	ID FROM REPORT -->	HFFSP00901		HFFSP00902		HFFSP01001		HFFSP01002		HFFSP01101		HFFSP01102	
	SAMPLE DATE ----->	09/28/00		09/28/00		09/28/00		09/28/00		11/15/00		11/15/00	
	DATE EXTRACTED -->	09/29/00		09/29/00		09/29/00		09/29/00		11/16/00		11/16/00	
	DATE ANALYZED --->	10/02/00		10/02/00		10/02/00		10/02/00		11/17/00		11/17/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	44513		44513		44513		44513		45080		45080	
99-09-2	3-Nitroaniline	900.	U	1500.	U	1200.	U	1000.	U	940.	U	1000.	U
83-32-9	Acenaphthene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
51-28-5	2,4-Dinitrophenol	900.	U	1500.	U	1200.	U	1000.	U	940.	U	1000.	U
100-02-7	4-Nitrophenol	900.	U	1500.	U	1200.	U	1000.	U	940.	U	1000.	U
132-64-9	Dibenzofuran	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
121-14-2	2,4-Dinitrotoluene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
606-20-2	2,6-Dinitrotoluene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
84-66-2	Diethylphthalate	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
7005-72-3	4-Chlorophenylphenylether	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
86-73-7	Fluorene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
100-01-6	4-Nitroaniline	900.	U	1500.	U	1200.	U	1000.	U	940.	U	1000.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	900.	U	1500.	U	1200.	U	1000.	U	940.	U	1000.	U
86-30-6	N-Nitrosodiphenylamine	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
101-55-3	4-Bromophenyl-phenylether	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
118-74-1	Hexachlorobenzene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
87-86-5	Pentachlorophenol	900.	U	1500.	U	1200.	U	1000.	U	940.	U	1000.	U
85-01-8	Phenanthrene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
120-12-7	Anthracene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
84-74-2	Di-n-butylphthalate	360.	U	620.	U	480.	U	410.	U	340.	J	420.	U
206-44-0	Fluoranthene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
129-00-0	Pyrene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
85-68-7	Butylbenzylphthalate	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
91-94-1	3,3'-Dichlorobenzidine	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
117-84-0	Di-n-octyl phthalate	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
50-32-8	Benzo(a)pyrene	360.	U	49.	J	480.	U	410.	U	380.	U	420.	U
193-39-5	Indeno(1,2,3-cd)pyrene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
53-70-3	Dibenz(a,h)anthracene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U
191-24-2	Benzo(g,h,i)perylene	360.	U	620.	U	480.	U	410.	U	380.	U	420.	U

FDS CAR ADDENDUM
AREA 21
DPT SOIL RESULTS

SW846-SVOA																	
	SAMPLE ID ------->	HFF-S-P012-01		HFF-S-P012-02		HFF-S-P013-01		HFF-S-P013-02		HFF-S-P014-01		HFF-S-P014-02	
	ORIGINAL ID ----->	HFFSP01201		HFFSP01202		HFFSP01301		HFFSP01302		HFFSP01401		HFFSP01402	
	LAB SAMPLE ID --->	45080.03		45080.04		45080.05		45080.06		45080.07		45080.08	
	ID FROM REPORT -->	HFFSP01201		HFFSP01202		HFFSP01301		HFFSP01302		HFFSP01401		HFFSP01402	
	SAMPLE DATE ----->	11/15/00		11/15/00		11/15/00		11/15/00		11/15/00		11/15/00	
	DATE EXTRACTED -->	11/16/00		11/16/00		11/16/00		11/16/00		11/16/00		11/16/00	
	DATE ANALYZED --->	11/17/00		11/17/00		11/17/00		11/17/00		11/17/00		11/17/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	45080		45080		45080		45080		45080		45080	
91-20-3	Naphthalene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
56-55-3	Benzo(a)anthracene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
218-01-9	Chrysene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
205-99-2	Benzo(b)fluoranthene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
207-08-9	Benzo(k)fluoranthene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
108-95-2	Phenol	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
111-44-4	bis(2-Chloroethyl)ether	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
95-57-8	2-Chlorophenol	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
541-73-1	1,3-Dichlorobenzene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
106-46-7	1,4-Dichlorobenzene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
100-51-6	Benzyl alcohol	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
95-50-1	1,2-Dichlorobenzene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
95-48-7	2-Methylphenol (o-Cresol)	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
106-44-5	4-Methylphenol (p-Cresol)	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
621-64-7	N-Nitroso-di-n-propylamine	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
67-72-1	Hexachloroethane	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
98-95-3	Nitrobenzene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
78-59-1	Isophorone	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
88-75-5	2-Nitrophenol	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
105-67-9	2,4-Dimethylphenol	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
65-85-0	Benzoic acid	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
111-91-1	bis(2-Chloroethoxy)methane	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
120-83-2	2,4-Dichlorophenol	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
120-82-1	1,2,4-Trichlorobenzene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
106-47-8	4-Chloroaniline	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
87-68-3	Hexachlorobutadiene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
59-50-7	4-Chloro-3-methylphenol	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
91-57-6	2-Methylnaphthalene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
77-47-4	Hexachlorocyclopentadiene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
88-06-2	2,4,6-Trichlorophenol	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
95-95-4	2,4,5-Trichlorophenol	870.	U	1000.	U	980.	U	1000.	U	950.	U	970.	U
91-58-7	2-Chloronaphthalene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
88-74-4	2-Nitroaniline	870.	U	1000.	U	980.	U	1000.	U	950.	U	970.	U
131-11-3	Dimethyl phthalate	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
208-96-8	Acenaphthylene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U

FDS CAR ADDENDUM
AREA 21
DPT SOIL RESULTS

SW846-SVOA													
	SAMPLE ID ------->	HFF-S-P012-01		HFF-S-P012-02		HFF-S-P013-01		HFF-S-P013-02		HFF-S-P014-01		HFF-S-P014-02	
	ORIGINAL ID ----->	HFFSP01201		HFFSP01202		HFFSP01301		HFFSP01302		HFFSP01401		HFFSP01402	
	LAB SAMPLE ID --->	45080.03		45080.04		45080.05		45080.06		45080.07		45080.08	
	ID FROM REPORT -->	HFFSP01201		HFFSP01202		HFFSP01301		HFFSP01302		HFFSP01401		HFFSP01402	
	SAMPLE DATE ----->	11/15/00		11/15/00		11/15/00		11/15/00		11/15/00		11/15/00	
	DATE EXTRACTED -->	11/16/00		11/16/00		11/16/00		11/16/00		11/16/00		11/16/00	
	DATE ANALYZED --->	11/17/00		11/17/00		11/17/00		11/17/00		11/17/00		11/17/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	45080		45080		45080		45080		45080		45080	
99-09-2	3-Nitroaniline	870.	U	1000.	U	980.	U	1000.	U	950.	U	970.	U
83-32-9	Acenaphthene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
51-28-5	2,4-Dinitrophenol	870.	U	1000.	U	980.	U	1000.	U	950.	U	970.	U
100-02-7	4-Nitrophenol	870.	U	1000.	U	980.	U	1000.	U	950.	U	970.	U
132-64-9	Dibenzofuran	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
121-14-2	2,4-Dinitrotoluene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
606-20-2	2,6-Dinitrotoluene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
84-66-2	Diethylphthalate	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
7005-72-3	4-Chlorophenylphenylether	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
86-73-7	Fluorene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
100-01-6	4-Nitroaniline	870.	U	1000.	U	980.	U	1000.	U	950.	U	970.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	870.	U	1000.	U	980.	U	1000.	U	950.	U	970.	U
86-30-6	N-Nitrosodiphenylamine	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
101-55-3	4-Bromophenyl-phenylether	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
118-74-1	Hexachlorobenzene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
87-86-5	Pentachlorophenol	870.	U	1000.	U	980.	U	1000.	U	950.	U	970.	U
85-01-8	Phenanthrene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
120-12-7	Anthracene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
84-74-2	Di-n-butylphthalate	350.	U	400.	U	390.	U	420.	U	380.	U	110.	J
206-44-0	Fluoranthene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
129-00-0	Pyrene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
85-68-7	Butylbenzylphthalate	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
91-94-1	3,3'-Dichlorobenzidine	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
117-84-0	Di-n-octyl phthalate	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
50-32-8	Benzo(a)pyrene	350.	U	400.	U	390.	U	110.	J	380.	U	390.	U
193-39-5	Indeno(1,2,3-cd)pyrene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
53-70-3	Dibenz(a,h)anthracene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U
191-24-2	Benzo(g,h,i)perylene	350.	U	400.	U	390.	U	420.	U	380.	U	390.	U

FDS CAR ADDENDUM
AREA 21
DPT SOIL RESULTS

SW846-VOA	SAMPLE ID ------->	HFF-S-P001-01		HFF-S-P001-02		HFF-S-P002-01		HFF-S-P002-02		HFF-S-P003-01		HFF-S-P003-02	
	ORIGINAL ID ----->	HFFSP00101		HFFSP00102		HFFSP00201		HFFSP00202		HFFSP00301		HFFSP00302	
	LAB SAMPLE ID --->	44523.07		44523.08		44523.09		44523.10		44523.11		44523.12	
	ID FROM REPORT -->	HFFSP00101		HFFSP00102		HFFSP00201		HFFSP00202		HFFSP00301		HFFSP00302	
	SAMPLE DATE ----->	09/29/00		09/29/00		09/29/00		09/29/00		09/29/00		09/29/00	
	DATE ANALYZED --->	10/04/00		10/06/00		10/05/00		10/06/00		10/05/00		10/05/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	44523		44523		44523		44523		44523		44523	
71-43-2	Benzene	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
100-41-4	Ethylbenzene	6.	U	5.	U	5.	U	2.	J	6.	U	9.	U
108-88-3	Toluene	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
1330-20-7	Xylene (Total)	6.	U	5.	U	5.	U	10.	U	6.	U	9.	U
74-87-3	Chloromethane	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
74-83-9	Bromomethane	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
75-01-4	Vinyl chloride	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
75-00-3	Chloroethane	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
75-09-2	Methylene chloride	4.	J	5.	U	5.	U	6.	U	6.	U	9.	U
67-64-1	Acetone	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
75-15-0	Carbon disulfide	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
75-35-4	1,1-Dichloroethene	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
75-34-3	1,1-Dichloroethane	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
540-59-0	1,2-Dichloroethene (total)	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
67-66-3	Chloroform	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
107-06-2	1,2-Dichloroethane	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
78-93-3	2-Butanone (MEK)	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
71-55-6	1,1,1-Trichloroethane	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
56-23-5	Carbon tetrachloride	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
108-05-4	Vinyl acetate	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
75-27-4	Bromodichloromethane	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
78-87-5	1,2-Dichloropropane	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
79-01-6	Trichloroethene	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
124-48-1	Dibromochloromethane	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
79-00-5	1,1,2-Trichloroethane	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
75-25-2	Bromoform	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
591-78-6	2-Hexanone	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
127-18-4	Tetrachloroethene	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
108-90-7	Chlorobenzene	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
100-42-5	Styrene	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U
110-75-8	2-Chloroethyl vinyl ether	6.	U	5.	U	5.	U	6.	U	6.	U	9.	U

FDS CAR ADDENDUM
AREA 21
DPT SOIL RESULTS

SW846-VOA	SAMPLE ID ------->	HFF-S-P004-01		HFF-S-P004-02		HFF-S-P005-01		HFF-S-P005-02		HFF-S-P006-01		HFF-C-P006-01	
	ORIGINAL ID ----->	HFFSP00401		HFFSP00402		HFFSP00501		HFFSP00502		HFFSP00601		HFFCP00601	
	LAB SAMPLE ID --->	44523.05		44523.06		44523.03		44523.04		44513.07		44550.03	
	ID FROM REPORT -->	HFFSP00401		HFFSP00402		HFFSP00501		HFFSP00502		HFFSP00601		HFFCP00601	
	SAMPLE DATE ----->	09/29/00		09/29/00		09/29/00		09/29/00		09/28/00		10/03/00	
	DATE ANALYZED --->	10/03/00		10/03/00		10/02/00		10/05/00		10/02/00		10/07/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	44523		44523		44523		44523		44513		44550	
71-43-2	Benzene	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
100-41-4	Ethylbenzene	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
108-88-3	Toluene	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
1330-20-7	Xylene (Total)	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
74-87-3	Chloromethane	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
74-83-9	Bromomethane	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
75-01-4	Vinyl chloride	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
75-00-3	Chloroethane	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
75-09-2	Methylene chloride	6.	U	11.	U	6.	U	4.	J	5.	U	9.	
67-64-1	Acetone	2700.	D	11.	U	6.	U	5.	U	5.	U	6.	U
75-15-0	Carbon disulfide	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
75-35-4	1,1-Dichloroethene	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
75-34-3	1,1-Dichloroethane	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
67-66-3	Chloroform	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
107-06-2	1,2-Dichloroethane	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
78-93-3	2-Butanone (MEK)	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
71-55-6	1,1,1-Trichloroethane	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
56-23-5	Carbon tetrachloride	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
108-05-4	Vinyl acetate	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
75-27-4	Bromodichloromethane	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
78-87-5	1,2-Dichloropropane	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
79-01-6	Trichloroethene	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
124-48-1	Dibromochloromethane	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
79-00-5	1,1,2-Trichloroethane	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
75-25-2	Bromoform	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
591-78-6	2-Hexanone	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
127-18-4	Tetrachloroethene	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
108-90-7	Chlorobenzene	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
100-42-5	Styrene	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U
110-75-8	2-Chloroethyl vinyl ether	6.	U	11.	U	6.	U	5.	U	5.	U	6.	U

FDS CAR ADDENDUM
AREA 21
DPT SOIL RESULTS

SW846-VOA													
	SAMPLE ID ------->	HFF-S-P006-02		HFF-S-P007-01		HFF-S-P007-02		HFF-S-P008-01		HFF-S-P008-02		HFF-S-P009-01	
	ORIGINAL ID ----->	HFFSP00602		HFFSP00701		HFFSP00702		HFFSP00801		HFFSP00802		HFFSP00901	
	LAB SAMPLE ID --->	44513.08		44523.01		44523.02		44513.05		44513.06		44513.03	
	ID FROM REPORT -->	HFFSP00602		HFFSP00701		HFFSP00702		HFFSP00801		HFFSP00802		HFFSP00901	
	SAMPLE DATE ----->	09/28/00		09/29/00		09/29/00		09/28/00		09/28/00		09/28/00	
	DATE ANALYZED --->	10/04/00		10/02/00		10/02/00		10/02/00		10/02/00		10/02/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	44513		44523		44523		44513		44513		44513	
71-43-2	Benzene	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
74-87-3	Chloromethane	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
74-83-9	Bromomethane	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
75-01-4	Vinyl chloride	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
75-00-3	Chloroethane	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
75-09-2	Methylene chloride	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
75-15-0	Carbon disulfide	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
71-55-6	1,1,1-Trichloroethane	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
591-78-6	2-Hexanone	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
127-18-4	Tetrachloroethene	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	6.	U	5.	U	6.	U	5.	U	10.		5.	U
100-42-5	Styrene	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U
110-75-8	2-Chloroethyl vinyl ether	6.	U	5.	U	6.	U	5.	U	5.	U	5.	U

FDS CAR ADDENDUM
AREA 21
DPT SOIL RESULTS

SW846-VOA													
	SAMPLE ID ------->	HFF-S-P009-02		HFF-S-P010-01		HFF-S-P010-02		HFF-S-P011-01		HFF-S-P011-02		HFF-S-P012-01	
	ORIGINAL ID ----->	HFFSP00902		HFFSP01001		HFFSP01002		HFFSP01101		HFFSP01102		HFFSP01201	
	LAB SAMPLE ID --->	44513.04		44513.01		44513.02		45080.01		45080.02		45080.03	
	ID FROM REPORT -->	HFFSP00902		HFFSP01001		HFFSP01002		HFFSP01101		HFFSP01102		HFFSP01201	
	SAMPLE DATE ----->	09/28/00		09/28/00		09/28/00		11/15/00		11/15/00		11/15/00	
	DATE ANALYZED --->	10/02/00		10/02/00		10/02/00		11/16/00		11/16/00		11/16/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	44513		44513		44513		45080		45080		45080	
71-43-2	Benzene	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
100-41-4	Ethylbenzene	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
108-88-3	Toluene	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
1330-20-7	Xylene (Total)	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
74-87-3	Chloromethane	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
74-83-9	Bromomethane	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
75-01-4	Vinyl chloride	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
75-00-3	Chloroethane	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
75-09-2	Methylene chloride	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
67-64-1	Acetone	92.		6.	U	6.	U	17.		5.	U	4.	U
75-15-0	Carbon disulfide	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
75-35-4	1,1-Dichloroethene	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
75-34-3	1,1-Dichloroethane	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
540-59-0	1,2-Dichloroethene (total)	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
67-66-3	Chloroform	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
107-06-2	1,2-Dichloroethane	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
78-93-3	2-Butanone (MEK)	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
71-55-6	1,1,1-Trichloroethane	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
56-23-5	Carbon tetrachloride	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
108-05-4	Vinyl acetate	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
75-27-4	Bromodichloromethane	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
78-87-5	1,2-Dichloropropane	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
10061-01-5	cis-1,3-Dichloropropene	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
79-01-6	Trichloroethene	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
124-48-1	Dibromochloromethane	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
79-00-5	1,1,2-Trichloroethane	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
10061-02-6	trans-1,3-Dichloropropene	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
75-25-2	Bromoform	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
591-78-6	2-Hexanone	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
127-18-4	Tetrachloroethene	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
79-34-5	1,1,2,2-Tetrachloroethane	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
108-90-7	Chlorobenzene	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
100-42-5	Styrene	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U
110-75-8	2-Chloroethyl vinyl ether	11.	U	6.	U	6.	U	6.	U	5.	U	4.	U

FDS CAR ADDENDUM
AREA 21
DPT SOIL RESULTS

SW846-VOA											
	SAMPLE ID ------->	HFF-S-P012-02		HFF-S-P013-01		HFF-S-P013-02		HFF-S-P014-01		HFF-S-P014-02	
	ORIGINAL ID ----->	HFFSP01202		HFFSP01301		HFFSP01302		HFFSP01401		HFFSP01402	
	LAB SAMPLE ID --->	45080.04		45080.05		45080.06		45080.07		45080.08	
	ID FROM REPORT -->	HFFSP01202		HFFSP01301		HFFSP01302		HFFSP01401		HFFSP01402	
	SAMPLE DATE ----->	11/15/00		11/15/00		11/15/00		11/15/00		11/15/00	
	DATE ANALYZED --->	11/16/00		11/16/00		11/16/00		11/16/00		11/17/00	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	45080		45080		45080		45080		45080	
71-43-2	Benzene	6.	U	6.	U	6.	U	5.	U	5.	U
100-41-4	Ethylbenzene	6.	U	6.	U	6.	U	5.	U	5.	U
108-88-3	Toluene	6.	U	6.	U	6.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	6.	U	6.	U	6.	U	5.	U	5.	U
74-87-3	Chloromethane	6.	U	6.	U	6.	U	5.	U	5.	U
74-83-9	Bromomethane	6.	U	6.	U	6.	U	5.	U	5.	U
75-01-4	Vinyl chloride	6.	U	6.	U	6.	U	5.	U	5.	U
75-00-3	Chloroethane	6.	U	6.	U	6.	U	5.	U	5.	U
75-09-2	Methylene chloride	6.	U	6.	U	6.	U	5.	U	5.	U
67-64-1	Acetone	6.	J	16.		8.		5.	U	7.	
75-15-0	Carbon disulfide	6.	U	6.	U	6.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	6.	U	6.	U	6.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	6.	U	6.	U	6.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	6.	U	6.	U	6.	U	5.	U	5.	U
67-66-3	Chloroform	6.	U	6.	U	6.	U	5.	U	0.9	J
107-06-2	1,2-Dichloroethane	6.	U	6.	U	6.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	6.	U	6.	U	6.	U	5.	U	5.	U
71-55-6	1,1,1-Trichloroethane	6.	U	6.	U	6.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	6.	U	6.	U	6.	U	5.	U	5.	U
108-05-4	Vinyl acetate	6.	U	6.	U	6.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	6.	U	6.	U	6.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	6.	U	6.	U	6.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U	6.	U	6.	U	5.	U	5.	U
79-01-6	Trichloroethene	6.	U	6.	U	6.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	6.	U	6.	U	6.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	6.	U	6.	U	6.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U	6.	U	6.	U	5.	U	5.	U
75-25-2	Bromoform	6.	U	6.	U	6.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.	U	6.	U	6.	U	5.	U	5.	U
591-78-6	2-Hexanone	6.	U	6.	U	6.	U	5.	U	5.	U
127-18-4	Tetrachloroethene	6.	U	6.	U	6.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	6.	U	6.	U	5.	U	5.	U
108-90-7	Chlorobenzene	6.	U	6.	U	6.	U	5.	U	5.	U
100-42-5	Styrene	6.	U	6.	U	6.	U	5.	U	5.	U
110-75-8	2-Chloroethyl vinyl ether	6.	U	6.	U	6.	U	5.	U	5.	U

FDS CAR ADDENDUM
AREA 21
DPT GROUNDWATER RESULTS

SW846-SVOA													
	SAMPLE ID ------->	HFF-G-P001-01		HFF-H-P001-01		HFF-G-P004-01		HFF-G-P006-01		HFF-G-P010-01		HFF-G-P011-01	
	ORIGINAL ID ----->	HFFGP00101		HFFHP00101		HFFGP00401		HFFGP00601		HFFGP01001		HFFGP01101	
	LAB SAMPLE ID --->	44550.01		44550.02		44538.07		44538.05		44538.06		44538.08	
	ID FROM REPORT -->	HFFGP00101		HFFHP00101		HFFGP00401		HFFGP00601		HFFGP01001		HFFGP01101	
	SAMPLE DATE ----->	10/02/00		10/02/00		10/01/00		10/01/00		10/01/00		10/01/00	
	DATE EXTRACTED -->	10/05/00		10/05/00		10/04/00		10/04/00		10/04/00		10/04/00	
	DATE ANALYZED --->	10/06/00		10/06/00		10/05/00		10/05/00		10/05/00		10/05/00	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	44550		44550		44538		44538		44538		44538	
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
131-11-3	Dimethyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

FDS CAR ADDENDUM
AREA 21
DPT GROUNDWATER RESULTS

SW846-SVOA													
	SAMPLE ID ------->	HFF-G-P001-01		HFF-H-P001-01		HFF-G-P004-01		HFF-G-P006-01		HFF-G-P010-01		HFF-G-P011-01	
	ORIGINAL ID ----->	HFFGP00101		HFFHP00101		HFFGP00401		HFFGP00601		HFFGP01001		HFFGP01101	
	LAB SAMPLE ID --->	44550.01		44550.02		44538.07		44538.05		44538.06		44538.08	
	ID FROM REPORT -->	HFFGP00101		HFFHP00101		HFFGP00401		HFFGP00601		HFFGP01001		HFFGP01101	
	SAMPLE DATE ----->	10/02/00		10/02/00		10/01/00		10/01/00		10/01/00		10/01/00	
	DATE EXTRACTED -->	10/05/00		10/05/00		10/04/00		10/04/00		10/04/00		10/04/00	
	DATE ANALYZED --->	10/06/00		10/06/00		10/05/00		10/05/00		10/05/00		10/05/00	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	44550		44550		44538		44538		44538		44538	
99-09-2	3-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
100-02-7	4-Nitrophenol	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenylphenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	6.	J	10.	U	10.	U
117-84-0	Di-n-octyl phthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

FDS CAR ADDENDUM
AREA 21
DPT GROUNDWATER RESULTS

SW846-SVOA													
		SAMPLE ID ------->	HFF-G-P012-01		HFF-G-P013-01								
		ORIGINAL ID ----->	HFFGP01201		HFFGP01301								
		LAB SAMPLE ID --->	44538.09		44538.04								
		ID FROM REPORT -->	HFFGP01201		HFFGP01301								
		SAMPLE DATE ----->	10/02/00		10/01/00								
		DATE EXTRACTED -->	10/06/00		10/04/00								
		DATE ANALYZED --->	10/09/00		10/05/00								
		MATRIX ---------->	Water		Water								
		UNITS ---------->	UG/L		UG/L								
CAS #	Parameter		44538		44538								
91-20-3	Naphthalene		14.	U	10.	U							
56-55-3	Benzo(a)anthracene		14.	U	10.	U							
218-01-9	Chrysene		14.	U	10.	U							
205-99-2	Benzo(b)fluoranthene		14.	U	10.	U							
207-08-9	Benzo(k)fluoranthene		14.	U	10.	U							
108-95-2	Phenol		14.	U	10.	U							
111-44-4	bis(2-Chloroethyl)ether		14.	U	10.	U							
95-57-8	2-Chlorophenol		14.	U	10.	U							
541-73-1	1,3-Dichlorobenzene		14.	U	10.	U							
106-46-7	1,4-Dichlorobenzene		14.	U	10.	U							
100-51-6	Benzyl alcohol		14.	U	10.	U							
95-50-1	1,2-Dichlorobenzene		14.	U	10.	U							
95-48-7	2-Methylphenol (o-Cresol)		14.	U	10.	U							
108-60-1	2,2'-oxybis(1-Chloropropane)		14.	U	10.	U							
106-44-5	4-Methylphenol (p-Cresol)		14.	U	10.	U							
621-64-7	N-Nitroso-di-n-propylamine		14.	U	10.	U							
67-72-1	Hexachloroethane		14.	U	10.	U							
98-95-3	Nitrobenzene		14.	U	10.	U							
78-59-1	Isophorone		14.	U	10.	U							
88-75-5	2-Nitrophenol		14.	U	10.	U							
105-67-9	2,4-Dimethylphenol		14.	U	10.	U							
65-85-0	Benzoic acid		11.	J	10.	U							
111-91-1	bis(2-Chloroethoxy)methane		14.	U	10.	U							
120-83-2	2,4-Dichlorophenol		14.	U	10.	U							
120-82-1	1,2,4-Trichlorobenzene		14.	U	10.	U							
106-47-8	4-Chloroaniline		14.	U	10.	U							
87-68-3	Hexachlorobutadiene		14.	U	10.	U							
59-50-7	4-Chloro-3-methylphenol		14.	U	10.	U							
91-57-6	2-Methylnaphthalene		14.	U	10.	U							
77-47-4	Hexachlorocyclopentadiene		14.	U	10.	U							
88-06-2	2,4,6-Trichlorophenol		14.	U	10.	U							
95-95-4	2,4,5-Trichlorophenol		36.	U	25.	U							
91-58-7	2-Chloronaphthalene		14.	U	10.	U							
88-74-4	2-Nitroaniline		36.	U	25.	U							
131-11-3	Dimethyl phthalate		14.	U	10.	U							
208-96-8	Acenaphthylene		14.	U	10.	U							

FDS CAR ADDENDUM
AREA 21
DPT GROUNDWATER RESULTS

SW846-SVOA											
	SAMPLE ID ------->	HFF-G-P012-01		HFF-G-P013-01							
	ORIGINAL ID ----->	HFFGP01201		HFFGP01301							
	LAB SAMPLE ID --->	44538.09		44538.04							
	ID FROM REPORT -->	HFFGP01201		HFFGP01301							
	SAMPLE DATE ----->	10/02/00		10/01/00							
	DATE EXTRACTED -->	10/06/00		10/04/00							
	DATE ANALYZED --->	10/09/00		10/05/00							
	MATRIX ---------->	Water		Water							
	UNITS ---------->	UG/L		UG/L							
CAS #	Parameter	44538		44538							
99-09-2	3-Nitroaniline	36.	U	25.	U						
83-32-9	Acenaphthene	14.	U	10.	U						
51-28-5	2,4-Dinitrophenol	36.	U	25.	U						
100-02-7	4-Nitrophenol	36.	U	25.	U						
132-64-9	Dibenzofuran	14.	U	10.	U						
121-14-2	2,4-Dinitrotoluene	14.	U	10.	U						
606-20-2	2,6-Dinitrotoluene	14.	U	10.	U						
84-66-2	Diethylphthalate	14.	U	10.	U						
7005-72-3	4-Chlorophenylphenylether	14.	U	10.	U						
86-73-7	Fluorene	14.	U	10.	U						
100-01-6	4-Nitroaniline	36.	U	25.	U						
534-52-1	2-Methyl-4,6-Dinitrophenol	36.	U	25.	U						
86-30-6	N-Nitrosodiphenylamine	14.	U	10.	U						
101-55-3	4-Bromophenyl-phenylether	14.	U	10.	U						
118-74-1	Hexachlorobenzene	14.	U	10.	U						
87-86-5	Pentachlorophenol	36.	U	25.	U						
85-01-8	Phenanthrene	14.	U	10.	U						
120-12-7	Anthracene	14.	U	10.	U						
84-74-2	Di-n-butylphthalate	14.	U	10.	U						
206-44-0	Fluoranthene	14.	U	10.	U						
129-00-0	Pyrene	14.	U	10.	U						
85-68-7	Butylbenzylphthalate	14.	U	10.	U						
91-94-1	3,3'-Dichlorobenzidine	14.	U	10.	U						
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	14.	U	6.	J						
117-84-0	Di-n-octyl phthalate	14.	U	10.	U						
50-32-8	Benzo(a)pyrene	14.	U	10.	U						
193-39-5	Indeno(1,2,3-cd)pyrene	14.	U	10.	U						
53-70-3	Dibenz(a,h)anthracene	14.	U	10.	U						
191-24-2	Benzo(g,h,i)perylene	14.	U	10.	U						

FDS CAR ADDENDUM
AREA 21
DPT GROUNDWATER RESULTS

SW846-VOA													
	SAMPLE ID ------->	HFF-G-P001-01		HFF-H-P001-01		HFF-G-P004-01		HFF-G-P006-01		HFF-G-P010-01		HFF-G-P011-01	
	ORIGINAL ID ----->	HFFGP00101		HFFHP00101		HFFGP00401		HFFGP00601		HFFGP01001		HFFGP01101	
	LAB SAMPLE ID --->	44550.01		44550.02		44538.07		44538.05		44538.06		44538.08	
	ID FROM REPORT -->	HFFGP00101		HFFHP00101		HFFGP00401		HFFGP00601		HFFGP01001		HFFGP01101	
	SAMPLE DATE ----->	10/02/00		10/02/00		10/01/00		10/01/00		10/01/00		10/01/00	
	DATE ANALYZED --->	10/05/00		10/05/00		10/04/00		10/04/00		10/04/00		10/04/00	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	44550		44550		44538		44538		44538		44538	
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
74-87-3	Chloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
74-83-9	Bromomethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-01-4	Vinyl chloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-00-3	Chloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-09-2	Methylene chloride	5.	U	3.	J	5.	U	5.	U	5.	U	5.	U
67-64-1	Acetone	5.	U	5.	U	10.	U	5.	U	5.	U	5.	U
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	21.		5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
591-78-6	2-Hexanone	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
110-75-8	2-Chloroethyl vinyl ether	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U

FDS CAR ADDENDUM
AREA 21
DPT GROUNDWATER RESULTS

SW846-VOA											
	SAMPLE ID ------->	HFF-G-P012-01		HFF-G-P013-01							
	ORIGINAL ID ----->	HFFGP01201		HFFGP01301							
	LAB SAMPLE ID --->	44538.09		44538.04							
	ID FROM REPORT -->	HFFGP01201		HFFGP01301							
	SAMPLE DATE ----->	10/02/00		10/01/00							
	DATE ANALYZED --->	10/04/00		10/04/00							
	MATRIX ---------->	Water		Water							
	UNITS ---------->	UG/L		UG/L							
CAS #	Parameter	44538		44538							
71-43-2	Benzene	5.	U	5.	U						
100-41-4	Ethylbenzene	5.	U	5.	U						
108-88-3	Toluene	5.	U	5.	U						
1330-20-7	Xylene (Total)	5.	U	5.	U						
74-87-3	Chloromethane	5.	U	5.	U						
74-83-9	Bromomethane	5.	U	5.	U						
75-01-4	Vinyl chloride	5.	U	5.	U						
75-00-3	Chloroethane	5.	U	5.	U						
75-09-2	Methylene chloride	5.	U	5.	U						
67-64-1	Acetone	5.	U	5.	U						
75-15-0	Carbon disulfide	5.	U	5.	U						
75-35-4	1,1-Dichloroethene	5.	U	5.	U						
75-34-3	1,1-Dichloroethane	5.	U	5.	U						
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U						
67-66-3	Chloroform	5.	U	5.	U						
107-06-2	1,2-Dichloroethane	5.	U	5.	U						
78-93-3	2-Butanone (MEK)	5.	U	5.	U						
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U						
56-23-5	Carbon tetrachloride	5.	U	5.	U						
108-05-4	Vinyl acetate	5.	U	5.	U						
75-27-4	Bromodichloromethane	5.	U	5.	U						
78-87-5	1,2-Dichloropropane	5.	U	5.	U						
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U						
79-01-6	Trichloroethene	5.	U	5.	U						
124-48-1	Dibromochloromethane	5.	U	5.	U						
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U						
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U						
75-25-2	Bromoform	5.	U	5.	U						
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.	U	5.	U						
591-78-6	2-Hexanone	5.	U	5.	U						
127-18-4	Tetrachloroethene	5.	U	5.	U						
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U						
108-90-7	Chlorobenzene	5.	U	5.	U						
100-42-5	Styrene	5.	U	5.	U						
110-75-8	2-Chloroethyl vinyl ether	5.	U	5.	U						

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 22, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01002
Sample ID: 38049010

Project: ENSF00101
Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/22/01	0102	66015

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	100%	(59%-129%)
Bromofluoromethane	8260B TCL Liquid Federal	93%	(66%-130%)
Toluene-d8	8260B TCL Liquid Federal	101%	(64%-130%)

Notes:
The Qualifiers in this report are defined as follows :

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< Actual result is less than amount reported
> Actual result is greater than amount reported
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
U Indicates the compound was analyzed for but not detected above the detection limit

The above sample is reported on an "as received" basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Stacy L. Griffin at 843-556-8171 Ext. 4264.

Reviewed by

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on recycled paper.

QC Summary

Report Date: February 22, 2001

Client : Ensafe Inc.
313 Wingo Way
Mount Pleasant, SC 29464

Contact: Charlie Veroy

Workorder: 38049

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile Organics Federal										
Batch 66015										
QC1000164088 LCS										
1,1-Dichloroethylene	50.0			48.3	ug/L		97	(74%-139%)	MAP	02/21/01 19:39
Benzene	50.0			46.4	ug/L		93	(79%-119%)		
Chlorobenzene	50.0			49.0	ug/L		98	(79%-120%)		
Toluene	50.0			47.4	ug/L		95	(74%-115%)		
Trichloroethylene	50.0			46.6	ug/L		93	(81%-132%)		
**Bromofluorobenzene	50.0			61.7	ug/L		123	(59%-129%)		
**Dibromofluoromethane	50.0			51.8	ug/L		104	(66%-130%)		
**Toluene-d8	50.0			56.7	ug/L		113	(64%-130%)		
QC1000164087 MB										
1,1,1-Trichloroethane			U	ND	ug/L					02/21/01 20:32
1,1,2,2-Tetrachloroethane			U	ND	ug/L					
1,1,2-Trichloroethane			U	ND	ug/L					
1,1-Dichloroethane			U	ND	ug/L					
1,1-Dichloroethylene			U	ND	ug/L					
1,2-Dichloroethane			U	ND	ug/L					
2-Dichloroethylene (total)			U	ND	ug/L					
2-Dichloropropane			U	ND	ug/L					
2-Butanone			U	ND	ug/L					
2-Hexanone			U	ND	ug/L					
4-Methyl-2-pentanone			U	ND	ug/L					
Acetone			U	ND	ug/L					
Benzene			U	ND	ug/L					
Bromodichloromethane			U	ND	ug/L					
Bromoform			U	ND	ug/L					
Bromomethane			U	ND	ug/L					
Carbon disulfide			U	ND	ug/L					
Carbon tetrachloride			U	ND	ug/L					
Chlorobenzene			U	ND	ug/L					
Chloroethane			U	ND	ug/L					
Chloroform			U	ND	ug/L					
Chloromethane			U	ND	ug/L					
Dibromochloromethane			U	ND	ug/L					
Ethylbenzene			U	ND	ug/L					
Methylene chloride			J	1.93	ug/L					
Styrene			U	ND	ug/L					
Tetrachloroethylene			U	ND	ug/L					
Toluene			U	ND	ug/L					
Trichloroethylene			U	ND	ug/L					
Vinyl acetate			U	ND	ug/L					
Vinyl chloride			U	ND	ug/L					
Xylenes (total)			U	ND	ug/L					
cis-1,2-Dichloroethylene			U	ND	ug/L					
cis-1,3-Dichloropropylene			U	ND	ug/L					

QC Summary

Workorder: 38049

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile Organics Federal												
Batch 66015												
trans-1,2-Dichloroethylene				U	ND	ug/L						
trans-1,3-Dichloropropylene				U	ND	ug/L						
**Bromofluorobenzene	50.0				60.7	ug/L		121	(59%-129%)			
**Dibromofluoromethane	50.0				51.0	ug/L		102	(66%-130%)			
**Toluene-d8	50.0				57.2	ug/L		114	(64%-130%)			
QC1000164089 38049001 PS												
1,1-Dichloroethylene	50.0	U	ND		38.8	ug/L		78	(71%-135%)		02/22/01	01:28
Benzene	50.0	U	ND		38.2	ug/L		76	(76%-124%)			
Chlorobenzene	50.0	J	0.346		40.5	ug/L		80	(76%-120%)			
Toluene	50.0	U	ND		38.4	ug/L		77	(69%-120%)			
Trichloroethylene	50.0	U	ND		37.4	ug/L		75	(75%-129%)			
**Bromofluorobenzene	50.0		52.1		49.7	ug/L		99	(59%-129%)			
**Dibromofluoromethane	50.0		43.9		43.1	ug/L		86	(66%-130%)			
**Toluene-d8	50.0		49.5		46.3	ug/L		93	(64%-130%)			
QC1000164090 38049001 PSD												
1,1-Dichloroethylene	50.0	U	ND		36.5	ug/L	6	73	(0%-23%)		02/22/01	01:54
Benzene	50.0	U	ND		36.8	ug/L	4	74	(0%-17%)			
Chlorobenzene	50.0	J	0.346		39.1	ug/L	4	77	(0%-21%)			
Toluene	50.0	U	ND		37.2	ug/L	3	74	(0%-22%)			
Trichloroethylene	50.0	U	ND		36.5	ug/L	2	73	(0%-20%)			
**omofluorobenzene	50.0		52.1		50.0	ug/L		100	(59%-129%)			
**bromofluoromethane	50.0		43.9		45.2	ug/L		91	(66%-130%)			
**Toluene-d8	50.0		49.5		49.4	ug/L		99	(64%-130%)			

Notes:
The Qualifiers in this report are defined as follows:

- ** Indicates the analyte is a surrogate compound.
- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the compound was analyzed for but not detected above the detection limit

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

QC Summary

Report Date: February 22, 2001

Client : ENSAFE (STND)
Contract Department
5724 Summer Trees Drive
Memphis, TN 38134

Contact: Joan Liddell

Workorder: 38049

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile Organics Federal										
Batch 66015										
QC1000164088 LCS										
1,1-Dichloroethylene	50.0			48.3	ug/L		97	(74%-139%)	MAP	02/21/01 19:39
Benzene	50.0			46.4	ug/L		93	(79%-119%)		
Chlorobenzene	50.0			49.0	ug/L		98	(79%-120%)		
Toluene	50.0			47.4	ug/L		95	(74%-115%)		
Trichloroethylene	50.0			46.6	ug/L		93	(81%-132%)		
**Bromofluorobenzene	50.0			61.7	ug/L		123	(59%-129%)		
**Dibromofluoromethane	50.0			51.8	ug/L		104	(66%-130%)		
**Toluene-d8	50.0			56.7	ug/L		113	(64%-130%)		
QC1000164087 MB										
1,1,1-Trichloroethane			U	ND	ug/L					02/21/01 20:32
1,1,2,2-Tetrachloroethane			U	ND	ug/L					
1,1,2-Trichloroethane			U	ND	ug/L					
1,1-Dichloroethane			U	ND	ug/L					
1,1-Dichloroethylene			U	ND	ug/L					
2-Dichloroethane			U	ND	ug/L					
2-Dichloroethylene (total)			U	ND	ug/L					
1,2-Dichloropropane			U	ND	ug/L					
2-Butanone			U	ND	ug/L					
2-Hexanone			U	ND	ug/L					
4-Methyl-2-pentanone			U	ND	ug/L					
Acetone			U	ND	ug/L					
Benzene			U	ND	ug/L					
Bromodichloromethane			U	ND	ug/L					
Bromoform			U	ND	ug/L					
Bromomethane			U	ND	ug/L					
Carbon disulfide			U	ND	ug/L					
Carbon tetrachloride			U	ND	ug/L					
Chlorobenzene			U	ND	ug/L					
Chloroethane			U	ND	ug/L					
Chloroform			U	ND	ug/L					
Chloromethane			U	ND	ug/L					
Dibromochloromethane			U	ND	ug/L					
Ethylbenzene			U	ND	ug/L					
Methylene chloride			J	1.93	ug/L					
Styrene			U	ND	ug/L					
Tetrachloroethylene			U	ND	ug/L					
Toluene			U	ND	ug/L					
Trichloroethylene			U	ND	ug/L					
Vinyl acetate			U	ND	ug/L					
Vinyl chloride			U	ND	ug/L					
Xylenes (total)			U	ND	ug/L					
cis-1,2-Dichloroethylene			U	ND	ug/L					

QC Summary

Workorder: 38049

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile Organics Federal											
Batch 66015											
cis-1,3-Dichloropropylene				U	ND	ug/L					
trans-1,2-Dichloroethylene				U	ND	ug/L					
trans-1,3-Dichloropropylene				U	ND	ug/L					
**Bromofluorobenzene	50.0				60.7	ug/L		121	(59%-129%)		
**Dibromofluoromethane	50.0				51.0	ug/L		102	(66%-130%)		
**Toluene-d8	50.0				57.2	ug/L		114	(64%-130%)		
QC1000164089 38049001 PS											
1,1-Dichloroethylene	50.0	U	ND		38.8	ug/L		78	(71%-135%)		02/22/01 01:28
Benzene	50.0	U	ND		38.2	ug/L		76	(76%-124%)		
Chlorobenzene	50.0	J	0.346		40.5	ug/L		80	(76%-120%)		
Toluene	50.0	U	ND		38.4	ug/L		77	(69%-120%)		
Trichloroethylene	50.0	U	ND		37.4	ug/L		75	(75%-129%)		
**Bromofluorobenzene	50.0		52.1		49.7	ug/L		99	(59%-129%)		
**Dibromofluoromethane	50.0		43.9		43.1	ug/L		86	(66%-130%)		
**Toluene-d8	50.0		49.5		46.3	ug/L		93	(64%-130%)		
QC1000164090 38049001 PSD											
1,1-Dichloroethylene	50.0	U	ND		36.5	ug/L	6	73	(0%-23%)		02/22/01 01:54
Benzene	50.0	U	ND		36.8	ug/L	4	74	(0%-17%)		
Chlorobenzene	50.0	J	0.346		39.1	ug/L	4	77	(0%-21%)		
Toluene	50.0	U	ND		37.2	ug/L	3	74	(0%-22%)		
[illegible]ichloroethylene	50.0	U	ND		36.5	ug/L	2	73	(0%-20%)		
[illegible]omofluorobenzene	50.0		52.1		50.0	ug/L		100	(59%-129%)		
**Dibromofluoromethane	50.0		43.9		45.2	ug/L		91	(66%-130%)		
**Toluene-d8	50.0		49.5		49.4	ug/L		99	(64%-130%)		

Notes:
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For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow

Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01015	Project:	ENSF00101
Sample ID:	38219005	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	23-FEB-01		
Receive Date:	23-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/24/01	2027	66461	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
2-Butanone	U	ND	0.810	5.00	ug/L	1				
2-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	J	3.05	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.150	1.00	ug/L	1				
Bromoform	U	ND	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform	J	0.329	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.160	1.00	ug/L	1				
Ethylbenzene	U	ND	0.150	1.00	ug/L	1				
Methylene chloride	U	ND	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	J	0.244	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

The following Prep Methods were performed

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01015 Project: ENSF00101
Sample ID: 38219005 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/24/01	2027	66461

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	105%	(59%-129%)
omofluoromethane	8260B TCL Liquid Federal	91%	(66%-130%)
ene-d8	8260B TCL Liquid Federal	104%	(64%-130%)

Notes:
The Qualifiers in this report are defined as follows :

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< Actual result is less than amount reported
> Actual result is greater than amount reported
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U Indicates the compound was analyzed for but not detected above the detection limit

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01025	Project:	ENSF00101
Sample ID:	38219006	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	23-FEB-01		
Receive Date:	23-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/24/01	2053	66461	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
2-Butanone	U	ND	0.810	5.00	ug/L	1				
2-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	J	3.37	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.150	1.00	ug/L	1				
Bromoform	U	ND	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform	J	0.221	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.160	1.00	ug/L	1				
Ethylbenzene	J	0.216	0.150	1.00	ug/L	1				
Methylene chloride	J	0.633	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	J	0.377	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

The following Prep Methods were performed

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Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01025 Project: ENSF00101
Sample ID: 38219006 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/24/01	2053	66461

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	116%	(59%-129%)
romofluoromethane	8260B TCL Liquid Federal	97%	(66%-130%)
uene-d8	8260B TCL Liquid Federal	107%	(64%-130%)

Notes:
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Reviewed by

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01030	Project:	ENSF00101
Sample ID:	38219007	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	23-FEB-01		
Receive Date:	23-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/24/01	2120	66461	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
2-Butanone	U	ND	0.810	5.00	ug/L	1				
2-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	J	3.64	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.150	1.00	ug/L	1				
Bromoform	U	ND	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform	J	0.215	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.160	1.00	ug/L	1				
Ethylbenzene	J	0.220	0.150	1.00	ug/L	1				
Methylene chloride	U	ND	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	J	0.313	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

The following Prep Methods were performed

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
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Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01030 Project: ENSF00101
Sample ID: 38219007 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/24/01	2120	66461

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	108%	(59%-129%)
omofluoromethane	8260B TCL Liquid Federal	90%	(66%-130%)
ene-d8	8260B TCL Liquid Federal	102%	(64%-130%)

Notes:
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U Indicates the compound was analyzed for but not detected above the detection limit

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFTP01030	Project:	ENSF00101
Sample ID:	38219008	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	23-FEB-01		
Receive Date:	23-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/24/01	2146	66461	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
2-Butanone	U	ND	0.810	5.00	ug/L	1				
2-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	J	2.67	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.150	1.00	ug/L	1				
Bromoform	U	ND	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform	J	0.533	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.160	1.00	ug/L	1				
Ethylbenzene	U	ND	0.150	1.00	ug/L	1				
Methylene chloride	U	ND	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

The following Prep Methods were performed

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
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Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFTP01030 Project: ENSF00101
Sample ID: 38219008 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/24/01	2146	66461

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	108%	(59%-129%)
[illegible]bromofluoromethane	8260B TCL Liquid Federal	97%	(66%-130%)
[illegible]uene-d8	8260B TCL Liquid Federal	109%	(64%-130%)

Notes:
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U Indicates the compound was analyzed for but not detected above the detection limit

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Stacy L Griffin

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01102	Project:	ENSF00101
Sample ID:	38219013	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	23-FEB-01		
Receive Date:	23-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/24/01	2358	66461	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
-Butanone	U	ND	0.810	5.00	ug/L	1				
-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	J	2.13	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.150	1.00	ug/L	1				
Bromoform	U	ND	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform	U	ND	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.160	1.00	ug/L	1				
Ethylbenzene	U	ND	0.150	1.00	ug/L	1				
Methylene chloride	U	ND	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

The following Prep Methods were performed

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
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Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01102 Project: ENSF00101
Sample ID: 38219013 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/24/01	2358	66461

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	105%	(59%-129%)
[illegible]omofluoromethane	8260B TCL Liquid Federal	92%	(66%-130%)
[illegible]ene-d8	8260B TCL Liquid Federal	103%	(64%-130%)

Notes:
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> Actual result is greater than amount reported
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U Indicates the compound was analyzed for but not detected above the detection limit

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Reviewed by Stacy L. Griffin

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QC Summary

Report Date: February 26, 2001

Client : Ensafe Inc.
313 Wingo Way
Mount Pleasant, SC 29464

Contact: Charlie Veroy

Workorder: 38219

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Volatile Organics Federal										
Batch 66461										
QC1000165250 LCS										
1,1-Dichloroethylene	50.0			50.7	ug/L		101	(74%-139%)	MAP	02/24/01 16:58
Benzene	50.0			46.7	ug/L		94	(79%-119%)		
Chlorobenzene	50.0			47.9	ug/L		96	(79%-120%)		
Toluene	50.0			47.3	ug/L		95	(74%-115%)		
Trichloroethylene	50.0			46.7	ug/L		93	(81%-132%)		
**Bromofluorobenzene	50.0			59.2	ug/L		118	(59%-129%)		
**Dibromofluoromethane	50.0			47.7	ug/L		95	(66%-130%)		
**Toluene-d8	50.0			53.2	ug/L		106	(64%-130%)		
QC1000165249 MB										
1,1,1-Trichloroethane			U	ND	ug/L					02/24/01 17:50
1,1,2,2-Tetrachloroethane			U	ND	ug/L					
1,1,2-Trichloroethane			U	ND	ug/L					
1,1-Dichloroethane			U	ND	ug/L					
1,1-Dichloroethylene			U	ND	ug/L					
1,2-Dichloroethane			U	ND	ug/L					
1,2-Dichloroethylene (total)			U	ND	ug/L					
1,2-Dichloropropane			U	ND	ug/L					
2-Butanone			U	ND	ug/L					
2-Hexanone			U	ND	ug/L					
4-Methyl-2-pentanone			U	ND	ug/L					
Acetone			U	ND	ug/L					
Benzene			U	ND	ug/L					
Bromodichloromethane			U	ND	ug/L					
Bromoform			U	ND	ug/L					
Bromomethane			U	ND	ug/L					
Carbon disulfide			U	ND	ug/L					
Carbon tetrachloride			U	ND	ug/L					
Chlorobenzene			U	ND	ug/L					
Chloroethane			U	ND	ug/L					
Chloroform			U	ND	ug/L					
Chloromethane			U	ND	ug/L					
Dibromochloromethane			U	ND	ug/L					
Ethylbenzene			U	ND	ug/L					
Methylene chloride			U	ND	ug/L					
Styrene			U	ND	ug/L					
Tetrachloroethylene			U	ND	ug/L					
Toluene			U	ND	ug/L					
Trichloroethylene			U	ND	ug/L					
Vinyl acetate			U	ND	ug/L					
Vinyl chloride			U	ND	ug/L					
Xylenes (total)			U	ND	ug/L					
cis-1,2-Dichloroethylene			U	ND	ug/L					
cis-1,3-Dichloropropylene			U	ND	ug/L					

QC Summary

Workorder: 38219

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile Organics Federal												
Batch 66461												
trans-1,2-Dichloroethylene				U	ND	ug/L						
trans-1,3-Dichloropropylene				U	ND	ug/L						
**Bromofluorobenzene	50.0				57.4	ug/L		115	(59%-129%)			
**Dibromofluoromethane	50.0				47.2	ug/L		94	(66%-130%)			
**Toluene-d8	50.0				54.5	ug/L		109	(64%-130%)			
1,4-Dichlorobenzene-d4					50.0	ug/L						
Chlorobenzene-d5					50.0	ug/L						
Fluorobenzene					50.0	ug/L						
QC1000165251 38219001 PS												
1,1-Dichloroethylene	50.0	U	ND		50.1	ug/L		100	(71%-135%)		02/25/01	00:24
Benzene	50.0	U	ND		47.2	ug/L		94	(76%-124%)			
Chlorobenzene	50.0	U	ND		47.2	ug/L		94	(76%-120%)			
Toluene	50.0	U	ND		46.3	ug/L		93	(69%-120%)			
Trichloroethylene	50.0	U	ND		46.1	ug/L		92	(75%-129%)			
**Bromofluorobenzene	50.0		52.7		54.4	ug/L		109	(59%-129%)			
**Dibromofluoromethane	50.0		43.8		47.3	ug/L		95	(66%-130%)			
**Toluene-d8	50.0		49.0		51.8	ug/L		104	(64%-130%)			
QC1000165252 38219001 PSD												
1,1-Dichloroethylene	50.0	U	ND		51.7	ug/L	3	103	(0%-23%)		02/25/01	00:50
Benzene	50.0	U	ND		48.2	ug/L	2	96	(0%-17%)			
Chlorobenzene	50.0	U	ND		48.0	ug/L	2	96	(0%-21%)			
Toluene	50.0	U	ND		47.0	ug/L	1	94	(0%-22%)			
Trichloroethylene	50.0	U	ND		47.3	ug/L	3	95	(0%-20%)			
**Bromofluorobenzene	50.0		52.7		55.0	ug/L		110	(59%-129%)			
**Dibromofluoromethane	50.0		43.8		47.5	ug/L		95	(66%-130%)			
**Toluene-d8	50.0		49.0		51.6	ug/L		103	(64%-130%)			

Notes:
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- > Actual result is greater than amount reported
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- U Indicates the compound was analyzed for but not detected above the detection limit

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01115	Project:	ENSF00101
Sample ID:	38219009	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	23-FEB-01		
Receive Date:	23-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/24/01	2212	66461	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
2-Butanone	U	ND	0.810	5.00	ug/L	1				
2-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	J	2.06	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane	J	0.965	0.150	1.00	ug/L	1				
Bromoform		1.04	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform	J	0.581	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane		1.98	0.160	1.00	ug/L	1				
Ethylbenzene	U	ND	0.150	1.00	ug/L	1				
Methylene chloride	U	ND	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	J	0.325	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

The following Prep Methods were performed

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01115 Project: ENSF00101
Sample ID: 38219009 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/24/01	2212	66461

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	111%	(59%-129%)
omofluoromethane	8260B TCL Liquid Federal	94%	(66%-130%)
ene-d8	8260B TCL Liquid Federal	105%	(64%-130%)

Notes:
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The above sample is reported on an "as received" basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Stacy L. Griffin at 843-556-8171 Ext. 4264.

Reviewed by

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Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01120	Project:	ENSF00101
Sample ID:	38219010	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	23-FEB-01		
Receive Date:	23-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/24/01	2239	66461	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
2-Butanone	U	ND	0.810	5.00	ug/L	1				
2-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	J	3.84	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane	J	0.323	0.150	1.00	ug/L	1				
Bromoform	U	ND	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform	J	0.386	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane	J	0.631	0.160	1.00	ug/L	1				
Ethylbenzene	U	ND	0.150	1.00	ug/L	1				
Methylene chloride	U	ND	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

The following Prep Methods were performed

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01120 Project: ENSF00101
Sample ID: 38219010 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/24/01	2239	66461

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	118%	(59%-129%)
romofluoromethane	8260B TCL Liquid Federal	99%	(66%-130%)
uene-d8	8260B TCL Liquid Federal	109%	(64%-130%)

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Reviewed by

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01125
Sample ID: 38219011
Matrix: Water
Collect Date: 23-FEB-01
Receive Date: 23-FEB-01
Collector: Client

Project: ENSF00101
Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/24/01	2305	66461	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
2-Butanone	U	ND	0.810	5.00	ug/L	1				
2-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	J	2.38	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane	J	0.555	0.150	1.00	ug/L	1				
Bromoform	J	0.511	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform	J	0.447	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane		1.07	0.160	1.00	ug/L	1				
Ethylbenzene	J	0.637	0.150	1.00	ug/L	1				
Methylene chloride	U	ND	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	J	0.406	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

The following Prep Methods were performed

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01125 Project: ENSF00101
Sample ID: 38219011 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/24/01	2305	66461

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	106%	(59%-129%)
omofluoromethane	8260B TCL Liquid Federal	96%	(66%-130%)
uene-d8	8260B TCL Liquid Federal	105%	(64%-130%)

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Reviewed by

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GENERAL ENGINEERING LABORATORIES

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01130	Project:	ENSF00101
Sample ID:	38219012	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	23-FEB-01		
Receive Date:	23-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/24/01	2331	66461	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
2-Butanone	U	ND	0.810	5.00	ug/L	1				
2-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	J	3.07	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.150	1.00	ug/L	1				
Bromoform	U	ND	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform	J	0.343	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.160	1.00	ug/L	1				
Ethylbenzene	J	0.226	0.150	1.00	ug/L	1				
Methylene chloride	U	ND	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	J	0.317	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

The following Prep Methods were performed

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01130 Project: ENSF00101
Sample ID: 38219012 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/24/01	2331	66461

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	103%	(59%-129%)
romofluoromethane	8260B TCL Liquid Federal	91%	(66%-130%)
uene-d8	8260B TCL Liquid Federal	101%	(64%-130%)

Notes:
The Qualifiers in this report are defined as follows :

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< Actual result is less than amount reported
> Actual result is greater than amount reported
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
U Indicates the compound was analyzed for but not detected above the detection limit

The above sample is reported on an "as received" basis.

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Reviewed by

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 22, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01405	Project:	ENSF00101
Sample ID:	38049005	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	21-FEB-01		
Receive Date:	21-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Triehloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/21/01	2250	66015	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
2-Butanone	U	ND	0.810	5.00	ug/L	1				
2-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	J	4.36	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane	J	0.904	0.150	1.00	ug/L	1				
Bromoform	J	0.940	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform	J	0.673	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane		1.69	0.160	1.00	ug/L	1				
Ethylbenzene	U	ND	0.150	1.00	ug/L	1				
Methylene chloride	J	1.51	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

The following Prep Methods were performed

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 22, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01405
Sample ID: 38049005

Project: ENSF00101
Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/21/01	2250	66015

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	108%	(59%-129%)
romofluoromethane	8260B TCL Liquid Federal	95%	(66%-130%)
ene-d8	8260B TCL Liquid Federal	101%	(64%-130%)

Notes:
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U Indicates the compound was analyzed for but not detected above the detection limit

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Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 22, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01410	Project:	ENSF00101
Sample ID:	38049006	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	21-FEB-01		
Receive Date:	21-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/21/01	2317	66015	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
2-Butanone	U	ND	0.810	5.00	ug/L	1				
2-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	J	3.67	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane	J	0.818	0.150	1.00	ug/L	1				
Bromoform	J	0.609	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform	J	0.646	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane		1.44	0.160	1.00	ug/L	1				
Ethylbenzene	U	ND	0.150	1.00	ug/L	1				
Methylene chloride	J	0.831	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

The following Prep Methods were performed

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
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Report Date: February 22, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01410 Project: ENSF00101
Sample ID: 38049006 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/21/01	2317	66015

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	105%	(59%-129%)
bromofluoromethane	8260B TCL Liquid Federal	93%	(66%-130%)
ene-d8	8260B TCL Liquid Federal	100%	(64%-130%)

Notes:
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U Indicates the compound was analyzed for but not detected above the detection limit

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 22, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01415	Project:	ENSF00101
Sample ID:	38049007	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	21-FEB-01		
Receive Date:	21-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/21/01	2343	66015	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
2-Butanone	U	ND	0.810	5.00	ug/L	1				
-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	J	3.57	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane	J	0.358	0.150	1.00	ug/L	1				
Bromoform	U	ND	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform	J	0.446	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane	J	0.723	0.160	1.00	ug/L	1				
Ethylbenzene	U	ND	0.150	1.00	ug/L	1				
Methylene chloride	J	1.02	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

The following Prep Methods were performed

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 22, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01415 Project: ENSF00101
Sample ID: 38049007 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/21/01	2343	66015

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	107%	(59%-129%)
[illegible]romofluoromethane	8260B TCL Liquid Federal	98%	(66%-130%)
[illegible]ene-d8	8260B TCL Liquid Federal	105%	(64%-130%)

Notes:
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J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
U Indicates the compound was analyzed for but not detected above the detection limit

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Stacy L Griffin
Reviewed by

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 22, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01425	Project:	ENSF00101
Sample ID:	38049008	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	21-FEB-01		
Receive Date:	21-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/22/01	0009	66015	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
2-Butanone	U	ND	0.810	5.00	ug/L	1				
2-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	J	2.89	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.150	1.00	ug/L	1				
Bromoform	U	ND	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform	J	0.329	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.160	1.00	ug/L	1				
Ethylbenzene	J	0.207	0.150	1.00	ug/L	1				
Methylene chloride	J	0.674	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	J	0.226	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

The following Prep Methods were performed

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 22, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01425 Project: ENSF00101
Sample ID: 38049008 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/22/01	0009	66015

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	104%	(59%-129%)
[illegible]romofluoromethane	8260B TCL Liquid Federal	93%	(66%-130%)
[illegible]ene-d8	8260B TCL Liquid Federal	101%	(64%-130%)

Notes:
The Qualifiers in this report are defined as follows :

** Indicates the analyte is a surrogate compound.
< Actual result is less than amount reported
> Actual result is greater than amount reported
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
U Indicates the compound was analyzed for but not detected above the detection limit

The above sample is reported on an "as received" basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Stacy L. Griffin at 843-556-8171 Ext. 4264.

Reviewed by Stacy L Griffin

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GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 22, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01430	Project:	ENSF00101
Sample ID:	38049009	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	21-FEB-01		
Receive Date:	21-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/22/01	0035	66015	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
-Butanone	U	ND	0.810	5.00	ug/L	1				
-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	J	3.03	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.150	1.00	ug/L	1				
Bromoform	U	ND	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform	J	0.307	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.160	1.00	ug/L	1				
Ethylbenzene	J	0.279	0.150	1.00	ug/L	1				
Methylene chloride	J	1.37	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	J	0.289	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

The following Prep Methods were performed

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 22, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01430 Project: ENSF00101
Sample ID: 38049009 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/22/01	0035	66015

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	96%	(59%-129%)
romofluoromethane	8260B TCL Liquid Federal	87%	(66%-130%)
ene-d8	8260B TCL Liquid Federal	93%	(64%-130%)

Notes:
The Qualifiers in this report are defined as follows :

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J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
U Indicates the compound was analyzed for but not detected above the detection limit

The above sample is reported on an "as received" basis.

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 22, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01002	Project:	ENSF00101
Sample ID:	38049010	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	21-FEB-01		
Receive Date:	21-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/22/01	0102	66015	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
2-Butanone	U	ND	0.810	5.00	ug/L	1				
2-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	U	ND	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.150	1.00	ug/L	1				
Bromoform	U	ND	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform	U	ND	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.160	1.00	ug/L	1				
Ethylbenzene	U	ND	0.150	1.00	ug/L	1				
Methylene chloride	J	1.96	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

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Company : Ensafe Inc.
Address : 313 Wingo Way
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Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01505	Project:	ENSF00101
Sample ID:	38219001	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	23-FEB-01		
Receive Date:	23-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/24/01	1842	66461	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
2-Butanone	U	ND	0.810	5.00	ug/L	1				
2-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	J	4.34	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane	J	0.157	0.150	1.00	ug/L	1				
Bromoform	U	ND	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform	J	0.462	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.160	1.00	ug/L	1				
Ethylbenzene	U	ND	0.150	1.00	ug/L	1				
Methylene chloride	U	ND	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01505 Project: ENSF00101
Sample ID: 38219001 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/24/01	1842	66461

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	105%	(59%-129%)
Bromofluoromethane	8260B TCL Liquid Federal	88%	(66%-130%)
Toluene-d8	8260B TCL Liquid Federal	98%	(64%-130%)

Notes:
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Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01515	Project:	ENSF00101
Sample ID:	38219002	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	23-FEB-01		
Receive Date:	23-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Volatile Organics Federal											
8260B TCL Liquid Federal											
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP	02/24/01	1909	66461	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1					
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1					
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1					
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1					
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1					
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1					
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1					
2-Butanone	U	ND	0.810	5.00	ug/L	1					
2-Hexanone	U	ND	0.790	5.00	ug/L	1					
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1					
Acetone	J	3.57	0.820	5.00	ug/L	1					
Benzene	U	ND	0.140	1.00	ug/L	1					
Bromodichloromethane	U	ND	0.150	1.00	ug/L	1					
Bromoform	U	ND	0.100	1.00	ug/L	1					
Bromomethane	U	ND	0.240	1.00	ug/L	1					
Carbon disulfide	U	ND	0.900	5.00	ug/L	1					
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1					
Chlorobenzene	U	ND	0.200	1.00	ug/L	1					
Chloroethane	U	ND	0.320	1.00	ug/L	1					
Chloroform	J	0.455	0.170	1.00	ug/L	1					
Chloromethane	U	ND	0.210	1.00	ug/L	1					
Dibromochloromethane	U	ND	0.160	1.00	ug/L	1					
Ethylbenzene	U	ND	0.150	1.00	ug/L	1					
Methylene chloride	U	ND	0.630	5.00	ug/L	1					
Styrene	U	ND	0.150	1.00	ug/L	1					
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1					
Toluene	U	ND	0.220	1.00	ug/L	1					
Trichloroethylene	U	ND	0.160	1.00	ug/L	1					
Vinyl acetate	U	ND	0.440	5.00	ug/L	1					
Vinyl chloride	U	ND	0.260	1.00	ug/L	1					
Xylenes (total)	U	ND	0.440	3.00	ug/L	1					
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1					
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1					
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1					
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1					

The following Prep Methods were performed

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01515 Project: ENSF00101
Sample ID: 38219002 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/24/01	1909	66461

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	116%	(59%-129%)
romofluoromethane	8260B TCL Liquid Federal	96%	(66%-130%)
uene-d8	8260B TCL Liquid Federal	107%	(64%-130%)

Notes:
The Qualifiers in this report are defined as follows :

** Indicates the analyte is a surrogate compound.
< Actual result is less than amount reported
> Actual result is greater than amount reported
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Reviewed by

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01520	Project:	ENSF00101
Sample ID:	38219003	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	23-FEB-01		
Receive Date:	23-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/24/01	1935	66461	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
2-Butanone	U	ND	0.810	5.00	ug/L	1				
2-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	J	3.18	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane	J	0.496	0.150	1.00	ug/L	1				
Bromoform	J	0.223	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform	J	0.579	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane	J	0.741	0.160	1.00	ug/L	1				
Ethylbenzene	J	0.282	0.150	1.00	ug/L	1				
Methylene chloride	U	ND	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	J	0.267	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

The following Prep Methods were performed

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
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Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01520 Project: ENSF00101
Sample ID: 38219003 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/24/01	1935	66461

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	106%	(59%-129%)
romofluoromethane	8260B TCL Liquid Federal	89%	(66%-130%)
luene-d8	8260B TCL Liquid Federal	99%	(64%-130%)

Notes:
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** Indicates the analyte is a surrogate compound.
< Actual result is less than amount reported
> Actual result is greater than amount reported
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
U Indicates the compound was analyzed for but not detected above the detection limit

The above sample is reported on an "as received" basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Stacy L. Griffin at 843-556-8171 Ext. 4264.

Reviewed by

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GENERAL ENGINEERING LABORATORIES

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01530	Project:	ENSF00101
Sample ID:	38219004	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	23-FEB-01		
Receive Date:	23-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/24/01	2001	66461	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
2-Butanone	U	ND	0.810	5.00	ug/L	1				
2-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	J	2.94	0.820	5.00	ug/L	1				
Benzene	J	0.170	0.140	1.00	ug/L	1				
Bromodichloromethane		1.17	0.150	1.00	ug/L	1				
Bromoform		1.18	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform	J	0.791	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane		2.14	0.160	1.00	ug/L	1				
Ethylbenzene	J	0.208	0.150	1.00	ug/L	1				
Methylene chloride	U	ND	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	J	0.594	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

The following Prep Methods were performed

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 26, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01530 Project: ENSF00101
Sample ID: 38219004 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/24/01	2001	66461

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	112%	(59%-129%)
romofluoromethane	8260B TCL Liquid Federal	93%	(66%-130%)
uene-d8	8260B TCL Liquid Federal	105%	(64%-130%)

Notes:
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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 22, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01605	Project:	ENSF00101
Sample ID:	38049001	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	21-FEB-01		
Receive Date:	21-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/21/01	2105	66015	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
2-Butanone	U	ND	0.810	5.00	ug/L	1				
2-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	J	1.92	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane	J	0.411	0.150	1.00	ug/L	1				
Bromoform	U	ND	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	J	0.346	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform	J	0.204	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane	J	0.714	0.160	1.00	ug/L	1				
Ethylbenzene	U	ND	0.150	1.00	ug/L	1				
Methylene chloride	J	0.822	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
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Report Date: February 22, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01605 Project: ENSF00101
Sample ID: 38049001 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/21/01	2105	66015

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	104%	(59%-129%)
Bromofluoromethane	8260B TCL Liquid Federal	88%	(66%-130%)
Toluene-d8	8260B TCL Liquid Federal	99%	(64%-130%)

Notes:
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Reviewed by Stacy L Griffin

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
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Report Date: February 22, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01610	Project:	ENSF00101
Sample ID:	38049002	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	21-FEB-01		
Receive Date:	21-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/21/01	2132	66015	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
2-Butanone	U	ND	0.810	5.00	ug/L	1				
2-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	U	ND	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane	J	0.304	0.150	1.00	ug/L	1				
Bromoform	U	ND	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform	U	ND	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane	J	0.642	0.160	1.00	ug/L	1				
Ethylbenzene	U	ND	0.150	1.00	ug/L	1				
Methylene chloride	J	1.42	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	U	ND	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

The following Prep Methods were performed

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 22, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01610 Project: ENSF00101
Sample ID: 38049002 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/21/01	2132	66015

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	96%	(59%-129%)
romofluoromethane	8260B TCL Liquid Federal	83%	(66%-130%)
ene-d8	8260B TCL Liquid Federal	96%	(64%-130%)

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U Indicates the compound was analyzed for but not detected above the detection limit

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 22, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01625	Project:	ENSF00101
Sample ID:	38049003	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	21-FEB-01		
Receive Date:	21-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/21/01	2158	66015	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
2-Butanone	U	ND	0.810	5.00	ug/L	1				
2-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	U	ND	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane		4.30	0.150	1.00	ug/L	1				
Bromoform		4.58	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform		2.02	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane		8.64	0.160	1.00	ug/L	1				
Ethylbenzene	J	0.221	0.150	1.00	ug/L	1				
Methylene chloride	J	0.729	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	J	0.277	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

The following Prep Methods were performed

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 22, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01625 Project: ENSF00101
Sample ID: 38049003 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/21/01	2158	66015

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	107%	(59%-129%)
[illegible]bromofluoromethane	8260B TCL Liquid Federal	88%	(66%-130%)
[illegible]luene-d8	8260B TCL Liquid Federal	102%	(64%-130%)

Notes:
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> Actual result is greater than amount reported
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U Indicates the compound was analyzed for but not detected above the detection limit

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Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 22, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID:	HFFGP01630	Project:	ENSF00101
Sample ID:	38049004	Client ID:	ENSF003
Matrix:	Water		
Collect Date:	21-FEB-01		
Receive Date:	21-FEB-01		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B TCL Liquid Federal										
1,1,1-Trichloroethane	U	ND	0.180	1.00	ug/L	1	MAP 02/21/01	2224	66015	1
1,1,2,2-Tetrachloroethane	U	ND	0.150	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.110	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.070	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.280	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.140	1.00	ug/L	1				
1,2-Dichloroethylene (total)	U	ND	0.470	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.160	1.00	ug/L	1				
2-Butanone	U	ND	0.810	5.00	ug/L	1				
2-Hexanone	U	ND	0.790	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	0.700	5.00	ug/L	1				
Acetone	J	1.62	0.820	5.00	ug/L	1				
Benzene	U	ND	0.140	1.00	ug/L	1				
Bromodichloromethane		5.85	0.150	1.00	ug/L	1				
Bromoform		6.97	0.100	1.00	ug/L	1				
Bromomethane	U	ND	0.240	1.00	ug/L	1				
Carbon disulfide	U	ND	0.900	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.160	1.00	ug/L	1				
Chlorobenzene	U	ND	0.200	1.00	ug/L	1				
Chloroethane	U	ND	0.320	1.00	ug/L	1				
Chloroform		2.62	0.170	1.00	ug/L	1				
Chloromethane	U	ND	0.210	1.00	ug/L	1				
Dibromochloromethane		11.6	0.160	1.00	ug/L	1				
Ethylbenzene	J	0.262	0.150	1.00	ug/L	1				
Methylene chloride	J	0.903	0.630	5.00	ug/L	1				
Styrene	U	ND	0.150	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.210	1.00	ug/L	1				
Toluene	J	0.297	0.220	1.00	ug/L	1				
Trichloroethylene	U	ND	0.160	1.00	ug/L	1				
Vinyl acetate	U	ND	0.440	5.00	ug/L	1				
Vinyl chloride	U	ND	0.260	1.00	ug/L	1				
Xylenes (total)	U	ND	0.440	3.00	ug/L	1				
cis-1,2-Dichloroethylene	U	ND	0.180	1.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.180	1.00	ug/L	1				
trans-1,2-Dichloroethylene	U	ND	0.310	1.00	ug/L	1				
trans-1,3-Dichloropropylene	U	ND	0.170	1.00	ug/L	1				

The following Prep Methods were performed

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GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

Certificate of Analysis

Company : Ensafe Inc.
Address : 313 Wingo Way
Mount Pleasant, SC 29464

Report Date: February 22, 2001

Contact: Charlie Veroy
Project: Hobson Fuel Farms

Client Sample ID: HFFGP01630 Project: ENSF00101
Sample ID: 38049004 Client ID: ENSF003

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	MAP	02/21/01	2224	66015

The following Analytical Methods were performed

Method	Description
1	SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B TCL Liquid Federal	108%	(59%-129%)
bromofluoromethane	8260B TCL Liquid Federal	92%	(66%-130%)
luene-d8	8260B TCL Liquid Federal	101%	(64%-130%)

Notes:
The Qualifiers in this report are defined as follows :

** Indicates the analyte is a surrogate compound.
< Actual result is less than amount reported
> Actual result is greater than amount reported
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
U Indicates the compound was analyzed for but not detected above the detection limit

The above sample is reported on an "as received" basis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Stacy L. Griffin at 843-556-8171 Ext. 4264.

Reviewed by

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CHARLESTON,SC; CINCINNATI,OH; DALLAS,TX; JACKSON,TN; KNOXVILLE,TN; LANCASTER,PA; NASHVILLE,TN; NORFOLK,VA; PADUCAH,KY; PENSACOLA,FL; RALEIGH,NC; COLOGNE, GERMANY

CHAIN OF CUSTODY RECORD

38219%

PAGE 1 OF 1

PROJECT/JOB NO: 0144-[redacted]1-09-000-00

COC NO:

PO NO: 4369

REL NO:

LAB NAME: GEL

CLIENT: NAVAL BASE CHARLESTON

PROJECT MANAGER: Todd Haverkost

LOCATION: Hobson Fuel Farm

TELE/FAX NO.: 884-0029 / 856-~~0170~~0107

SAMPLERS: (SIGNATURE) J. Walsh

ANALYSIS REQUIRED: VOC + TICs

FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE TYPE	TYPE/SIZE OF CONTAINER	PRESERVATION TEMP.	PRESERVATION CHEMICAL	NO. OF CONTAINERS	VOC + TICs	REMARKS
HFFGP015Ø5	2-23-01	083Ø	W	40ml Vial	4°C	HCL	2	X	
HFFGPØ1515		091Ø					1		
HFFGPØ152Ø		092Ø					2		
HFFGPØ153Ø		095Ø					1		
HFFGPØ1Ø15		1125					2		
HFFGPØ1Ø25		121Ø					2		
HFFGPØ1Ø3Ø		1225					1		
~~HFFGP~~ HFFTPØ1Ø3Ø		1230					2		
HFFGPØ1115		1445					2		
HFFGPØ112Ø		1505					2		
HFFGPØ1125		1520					2		

RELINQUISHER	DATE	RECEIVER	DATE	RELINQUISHER	DATE	RECEIVER	DATE
J Watson	2-23-01	[signature] GEL	2/23/01	[signature] Bob Lockhart	2/23/01	Patricia Dover	2/23/01
PRINTED: J Watson	TIME 1523	PRINTED:	TIME 1525	PRINTED: Bob Lockhart	TIME 1545	PRINTED:	TIME 1545
COMPANY: En-SAFE		COMPANY: GEL		COMPANY: GEL		COMPANY:	

METHOD OF SHIPMENT: HAND/Courier

SHIPMENT NO.

SEND RESULTS TO:

COMMENTS:

ANALYTICAL DATA RECEIVED BY (INITIALS/DATE)

ENSCOC2
REV. 05/98