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RESOURCE CONSERVATION AND RECOVERY ACT FACILITY INVESTIGATION REPORT ADDENDUM AREA OF CONCERN 643 (AOC 643) ZONE G CNC CHARLESTON SC

12/1/2001

CH2M HILL

RFI REPORT ADDENDUM

Area of Concern 643, Zone G

Charleston Naval Complex
North Charleston, South Carolina

SUBMITTED TO
U.S. Navy Southern Division
Naval Facilities Engineering Command

CH2M-Jones

December 2001

Revision 0
Contract N62467-99-C-0960

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February 27, 2002

Mr. David Scaturo
Division of Hazardous and Infectious Wastes
South Carolina Department of Health and
Environmental Control
Bureau of Land and Waste Management
2600 Bull Street
Columbia, SC 29201

Re: RFI Report Addendum (Revision 1) – AOC 643, Zone G

Dear Mr. Scaturo:

Enclosed please find two copies of the RFI Report Addendum (Revision 1) for AOC 643 in Zone G of the Charleston Naval Complex (CNC). This report has been prepared pursuant to agreements by the CNC BRAC Cleanup Team for completing the RCRA Corrective Action process.

The principal author of this document is Bill Elliott. Please contact him at 352/335-5877, extension 2477, if you have any questions or comments.

Sincerely,

CH2M HILL

Dean Williamson, P.E.

cc: Tim Frederick/Gannett Fleming, Inc.
Rob Harrell/Navy, w/att
Gary Foster/CH2M HILL, w/att

EPA General Comment

1. This addendum is well written, and the recommendation of No Further Action is supported by the data.

EPA Specific Comments

2. **Page 5-1, Sentence 13.** The text states that TCE and benzene were detected in one sample. The text then states that the reported trace levels could also be due to laboratory contamination. While it is agreed that the trace detections of these two constituents in only one sample indicate a lack of widespread presence in surface soil, it is not necessarily appropriate that it should be stated that the benzene and TCE detections are due to laboratory contamination. Therefore, this sentence should be removed as sufficient rationale has already been provided about eliminating VOCs as COCs.

   CH2M-Jones Response 2:
   This comment is acknowledged, and line 13 of Page 5-1 has been revised as requested. Copies of the updated replacement page 5-1 are enclosed.

3. **Page 5-3, Sentence 33.** It is stated that sample G643SB025 was replaced with the results from G64SB0291. However, the rationale to support this replacement should be added to the text, i.e., sample G64SB0291 was the sample collected in the same location as G643SB025.

   CH2M-Jones Response 3:
   To calculate the exposure point concentrations (EPCs) for BEQs in soil, representative data from all sampling events were used, including sample G643SB02901, which was a re-sampling of RFI station G643SB025. The location was re-sampled by CH2M-Jones in 2001 because elevated BEQ concentrations observed in the RFI sample were believed to be associated with asphalt pavement, as opposed to a petroleum product release. The location was re-sampled taking care not to sample through asphalt, or to allow asphalt particles into the sample. Analytical results indicated that BEQs were present, but at concentrations below the 1.304 parts per million (ppm) screening criteria for BEQs.

RFI REPORT ADDENDUM

Area of Concern 643, Zone G

Charleston Naval Complex
North Charleston, South Carolina

SUBMITTED TO
U.S. Navy Southern Division
Naval Facilities Engineering Command

PREPARED BY
CH2M-Jones

December 2001

Revision 0
Contract N62467-99-C-0960
158814.ZG.PR.07

Certification Page for RFI Report Addendum (Revision 0) – AOC 643, Zone G

I, Dean Williamson, certify that this report has been prepared under my direct supervision. The data and information are, to the best of my knowledge, accurate and correct, and the report has been prepared in accordance with current standards of practice for engineering.

South Carolina

P.E. No. 21428

Dean Williamson, P.E.

12/4/2001

Date

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B *IM Completion Report for AOC 643, Naval Base Charleston, Charleston SC* (EEG, 1999)

C Analytical Data and Data Validation Report Summaries from Additional Sampling performed by CH2M-Jones

D Data Validation Reports from Additional Sampling performed by EnSafe

Acronyms and Abbreviations

AOC	area of concern
AST	aboveground storage tank
BCT	BRAC Cleanup Team
BEQ	benzo(a)pyrene equivalent
BRAC	Base Realignment and Closure Act
BRC	background reference concentration
CA	corrective action
CMS	corrective measures study
CNC	Charleston Naval Complex
COC	chemical of concern
COPC	chemical of potential concern
CSI	confirmatory sampling investigation
DAF	dilution attenuation factor
EnSafe	Ensafe Inc.
EPA	U.S. Environmental Protection Agency
EPC	exposure point concentration
ft bls	feet below land surface
IM	interim measure
HHRA	human health risk assessment
HI	hazard index
MCL	maximum contaminant level
µg/kg	microgram per kilogram
µg/L	microgram per liter
mg/kg	milligram per kilogram
NAVBASE	Naval Base
NFA	no further action
NFI	no further investigation
OWS	oil/water separator
PAH	polycyclic aromatic hydrocarbon

PCB	polychlorinated biphenyl
ppm	part per million
PRG	preliminary remediation goal
RBC	risk-based concentration
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
SCDHEC	South Carolina Department of Health and Environmental Control
SPLP	synthetic precipitation leaching procedure
SSL	soil screening level
SVOC	semivolatile organic compound
SWMU	solid waste management unit
TCE	trichloroethene
UCL_{95}	95% upper confidence limit
UST	underground storage tank
VOC	volatile organic compound

Section 1.0

1.0 Introduction

In 1993, Naval Base (NAVBASE) Charleston was added to the list of bases scheduled for closure as part of the Defense Base Realignment and Closure Act (BRAC), which regulates closure and transition of property to the community. The Charleston Naval Complex (CNC) was formed as a result of the dis-establishment of the Charleston Naval Shipyard and NAVBASE on April 1, 1996.

Corrective Action (CA) activities are being conducted under the Resource Conservation and Recovery Act (RCRA) with the South Carolina Department of Health and Environmental Control (SCDHEC) as the lead agency for CA activities at the CNC. All RCRA CA activities are performed in accordance with the Final Permit (Permit No. SC0 170 022 560).

In April 2000, CH2M-Jones was awarded a contract to provide environmental investigation and remediation services at the CNC. This submittal has been prepared by CH2M-Jones to complete the RCRA Facility Investigation (RFI) for Area of Concern (AOC) 643 in Zone G of the CNC. The site is recommended for No Further Action (NFA), due to the absence of any impact on human health or the environment. Figure 1-1 illustrates the location of AOC 643 within Zone G. Figure 1-2 is an aerial photograph of AOC 643, taken in 1997.

1.1 Background

AOC 643 is the electric substation at Building 125, which is on the north side of Hobson Avenue near the entrance to Pier N. Transformers, inactive DC generators, switches, and circuit breakers were stored in a woodshed adjacent to Building 125.

In 1985, an oil sample was collected from a transformer in Building 125. The analytical results had a reported polychlorinated biphenyl (PCB) concentration of 150 parts per million (ppm). As a result, the oil was classified as PCB-containing. The substation has had a documented spill of one-half gallon of dielectric fluid that leaked from a transformer in 1998. The spill was remediated. The site was recommended for a Confirmatory Sampling Investigation (CSI) in the RCRA Facility Assessment (RFA) (EnSafe Inc. [EnSafe]/Allen & Hoshall, 1995).

1.2 Purpose of the RFI Report Addendum

This RFI Report Addendum provides information about AOC 643 that documents the conclusions from the *Zone G RFI Report, Revision 0* (EnSafe, 1998a), provides the results of additional sampling performed after the *Zone G RFI Report, Revision 0* was submitted, conclusions from the new data collected, and supports a recommendation of NFA for AOC 643.

Prior to changing the status of any site to NFA in the CNC RCRA CA permit, the BRAC Cleanup Team (BCT) agreed that the following issues should be considered:

- Status of the RFI
- Presence of metals (inorganics) in groundwater
- Potential linkage to Solid Waste Management Unit (SWMU) 37, Investigated Sanitary Sewers at the CNC
- Potential linkage to AOC 699, Investigated Storm Sewers at the CNC
- Potential linkage of AOC 504, Investigated Railroad Lines at the CNC
- Potential linkage to surface water bodies (Zone J)
- Potential contamination associated with oil/water separators (OWSs)
- Relevance or need for land use controls at the site

Information regarding these issues is provided in this RFI Report Addendum to expedite evaluation of closure of the site.

Provided that the information presented herein is adequate to address these site closeout items, it is expected that the BCT will concur that NFA is appropriate for the site. At that time, a Statement of Basis will be prepared that will be made available for public comment in accordance with SCDHEC policy. This will allow for public participation in the final remedy selection.

1.3 Report Organization

This RFI Report Addendum consists of the following sections, including this introductory section:

1.0 Introduction — Presents the purpose of and background information relating to this RFI Report Addendum.

2.0 Summary of RFI Conclusions for AOC 643 — Summarizes the conclusions from the RFI investigations and risk evaluations for AOC 643.

3.0 Interim Measures and UST/AST Removals — Summarizes any interim measures (IMs) or underground storage tank (UST)/aboveground storage tank (AST) removals conducted at the site.

4.0 Summary of RFI and Additional Investigations—Summarizes the data collected during and after the completion of the *Zone G RFI Report, Revision 0*.

5.0 COPC/COC Refinement—Evaluates and identifies chemicals of potential concern (COPCs) based on current screening criteria using all RFI data.

6.0 Summary of Information Related to Site Closeout Issues—Discusses the various site closeout issues that the BCT agreed to evaluate prior to site closeout.

7.0 Recommendations— Provides recommendations for proceeding with site closure.

8.0 References — Lists the references used in this document.

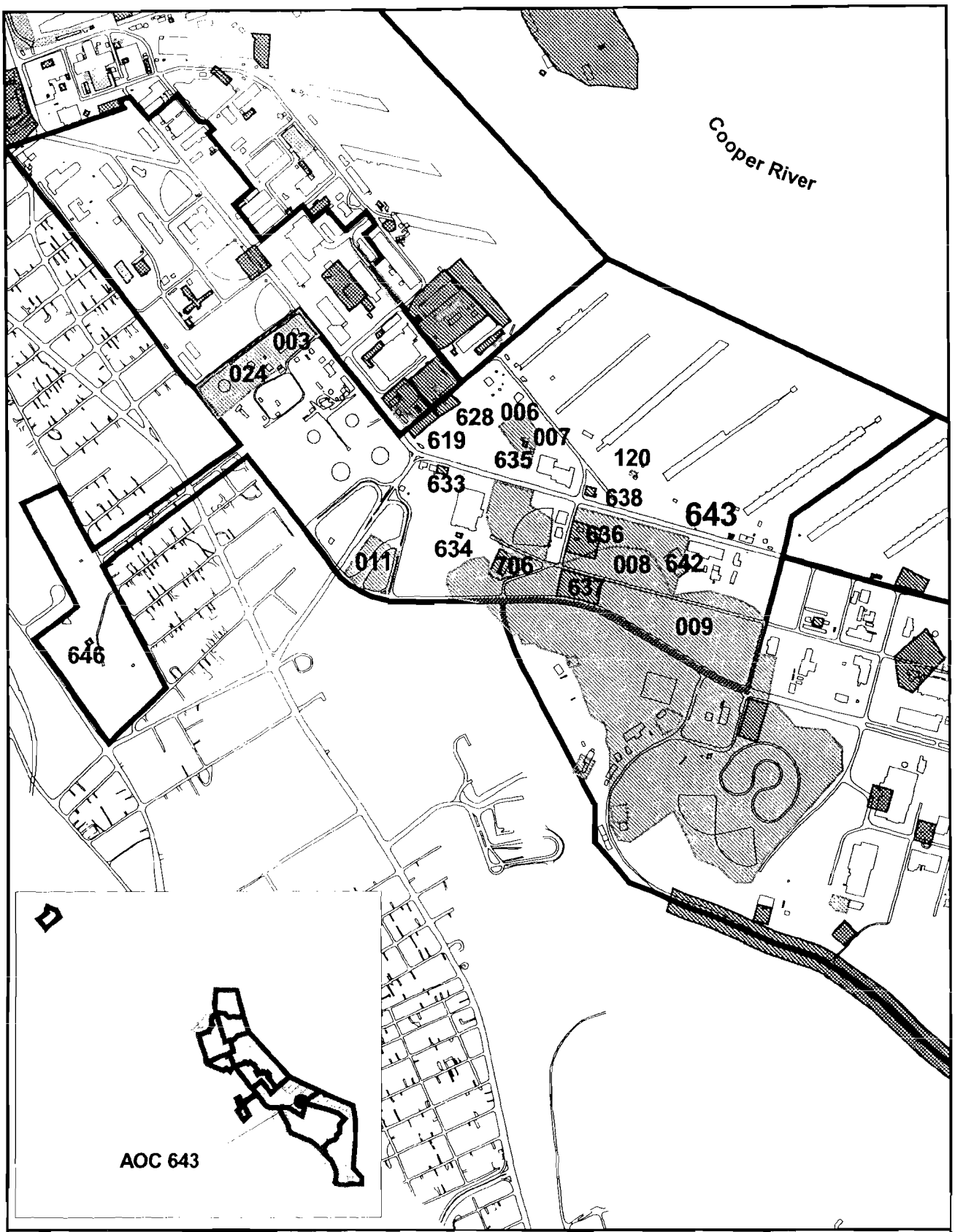
Appendix A contains excerpts from the *Zone G RFI Report, Revision 0*, including Figure 2.5, *Shallow Groundwater Potentiometric Contours*.

Appendix B contains the *IM Completion Report for AOC 643, Naval Base Charleston, Charleston SC* (EEG, 1999).

Appendix C contains analytical data and data validation report summaries from CH2M-Jones' sampling subsequent to the *Zone G RFI Report, Revision 0* (EnSafe, 1998a).

Appendix D contains data validation reports from the additional sampling performed by EnSafe.

All tables and figures appear at the end of their respective sections.



Roads
Buildings
AOC / SWMU Boundary
Zone Boundary
Zone G

N

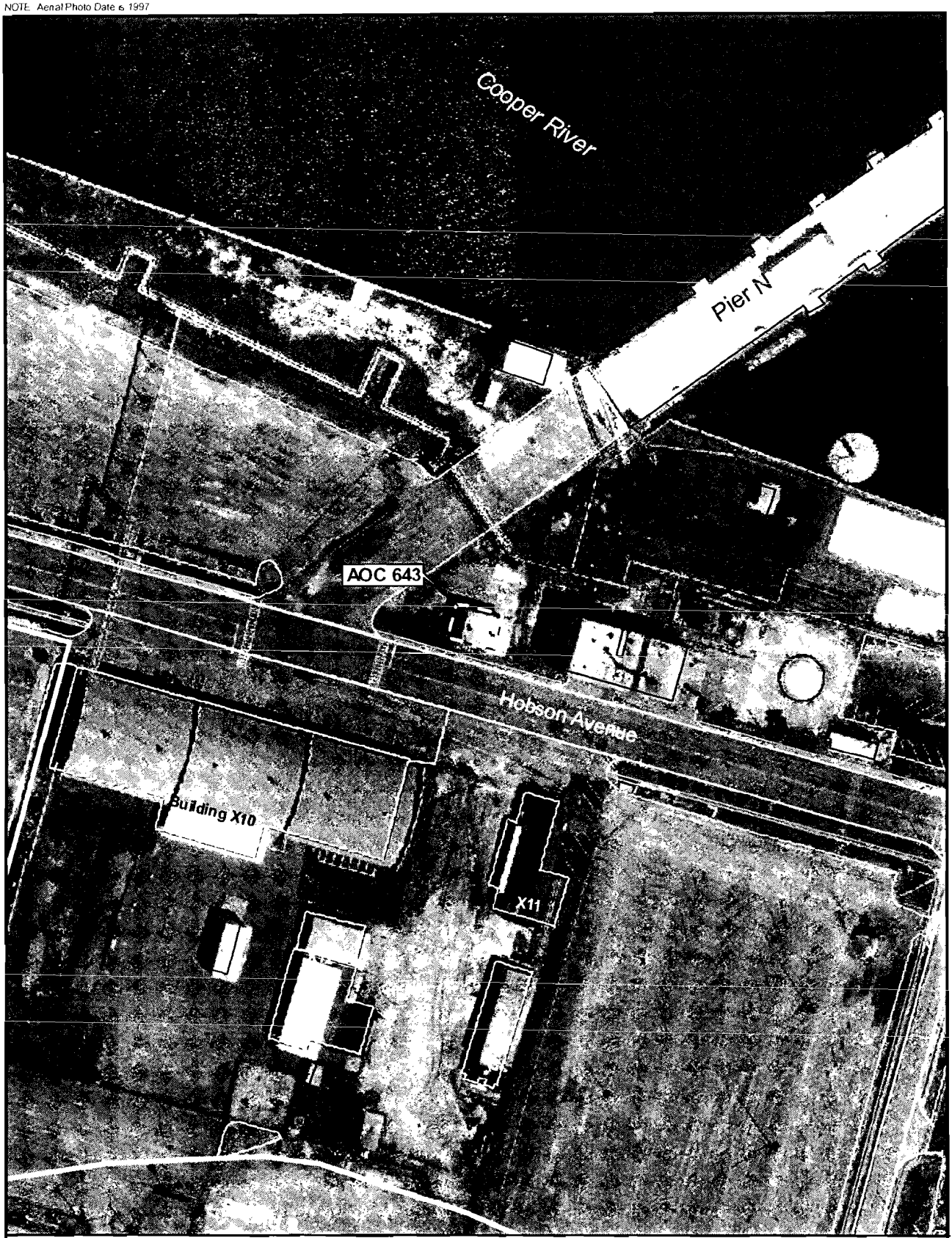
0 800 1600 Feet

Figure 1-1
Location of AOC 643
Zone G
Charleston Naval Complex

CH2MHILL

File Path: C:\18gis\Projects\Zone_G\aoc_643\aprs\aoc_643_v4.apr Date: 28 Nov 2001 16:57, User: ASWINFOR, Figure 1-1 - main map - Figure 1-1 Location of AOC 643

NOTE: Aerial Photo Date is 1997



Roads
Pavement
Sidewalk
AOC Boundary
SWMU Boundary
Buildings

N

0 100 200 Feet

Figure 1-2
Aerial Photograph of AOC 643
Zone G
Charleston Naval Complex

CH2MHILL

File Path: c:\18gis\projects\zone_g\aoc_643\apps\aoc_643_4.apr Date: 19 Oct 2001 10:04 User: ASWINFOR Figure 1-2 Aerial Photo Figure 1-2 Aerial Photograph

Section 2.0

2.0 Summary of RFI Conclusions for AOC 643

As part of the Zone G RFI, surface and subsurface soil investigations were conducted in the area of the Building 125 (AOC 643). A sediment sample (G643M0001) was also collected at AOC 643 as part of the RFI. Figure 2-1 presents the site and the original RFI soil sample locations within this area. Soil samples were collected in two phases. During the first phase (September 1996), seven soil borings (G643SB001 through G643SB007) were advanced at AOC 643 to determine if there was any impact from site activities on site soil. A surface and subsurface sample was collected from each boring. Three months later during the second phase (January 1997), five additional soil borings (G643SB008 through G643SB012) were advanced to delineate exceedances of semivolatile organic compounds (SVOCs), pesticides, and PCBs. Two duplicate samples (643SB00901 and 643SB01001) were also collected and analyzed for a wider range of constituents (metals, hexavalent chromium, pesticides, PCBs, volatile organic compounds [VOCs], and semivolatile organic compounds [SVOCs]) than other samples collected at the site. The *Zone G RFI Report, Revision 0* (EnSafe, 1998a) presented the analytical results for these samples as well as conclusions concerning contamination and risk. Conclusions from the *Zone G RFI Report, Revision 0* regarding site soil are summarized below.

2.1 Soil Sampling and Analysis

Results of surface soil analyses were compared in the *Zone G RFI Report, Revision 0* to the applicable screening criteria (U.S. Environmental Protection Agency [EPA] Region III residential risk-based concentrations [RBCs], EPA soil screening levels [SSLs] with a dilution attenuation factor [DAF]=20, and the Zone G background reference concentrations [BRCs]).

Analytes that exceeded the screening criteria were considered to be COPCs and were retained for further evaluation in the risk assessment to determine which were considered chemicals of concern (COCs). Tables showing the site's detected constituents in surface and subsurface soil, which were reported in the *Zone G RFI Report, Revision 0*, are presented in Appendix A of this RFI Report Addendum.

2.1.1 Surface Soil Results

The Nature and Extent of Contamination section (10.10.3.1) of the *Zone G RFI Report, Revision 0* presented the following conclusions regarding the surface soil samples collected and analyzed at AOC 643:

- No VOCs were detected in surface soil samples at concentrations above their respective RBCs.
- Benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, and dibenz(a,h)anthracene were detected in surface soil samples at concentrations above their respective RBCs. The calculated benzo(a)pyrene equivalent (BEQ) value exceeded its RBC (88 micrograms per kilogram [µg/kg]) at four sample locations (G643SB002: 112.7 µg/kg; G643SB005: 1,446.8 µg/kg; G643SB010: 442.03 µg/kg; and G643SB012: 314.93 µg/kg).
- No pesticides were detected in surface soil at concentrations above their respective RBCs. One PCB, Aroclor-1260, was detected in surface soil above its RBC (320 µg/kg) at two locations (G643SB007: 1,700 µg/kg and G643SB010; 1,170 µg/kg).
- Three inorganic constituents, arsenic, chromium, and vanadium, were detected in surface soil samples above their respective RBCs and BRCs. Iron was also detected in all five surface soil samples above its RBC (hazard index [HI]=0.1). However, iron was considered an essential nutrient and a BRC was not determined.

The Human Health Risk Assessment (HHRA) section (10.10.6) of the *Zone G RFI Report, Revision 0* concluded that BEQs, arsenic, chromium, vanadium, and Aroclor-1260 were COPCs in surface soil at AOC 643.

2.1.2 Subsurface Soil Results

The Nature and Extent of Contamination section (10.10.3.1) of the *Zone G RFI Report, Revision 0* presented the following conclusions regarding the subsurface soil samples collected and analyzed at AOC 643:

- No VOCs or SVOCs were detected in subsurface samples at concentrations above their respective SSLs.
- Dieldrin was the only pesticide detected in subsurface soil samples (G643SB00602: 22 µg/kg) collected at AOC 643 at a concentration above its SSL (4 µg/kg). Aroclor-1260 was detected in three out of six subsurface soil samples. No sample contained Aroclor-1260 concentrations above its preliminary remediation goal (PRG) (1,000 µg/kg). This

value is taken from the *Soil Screening Guidance: Technical Background Document* (EPA, 1996).

- No inorganic constituents were detected in subsurface soil samples at concentrations above their respective SSLs and BRCs.

The HHRA section (10.10.6) of the *Zone G RFI Report, Revision 0* did not identify any COPCs in subsurface soil at AOC 643.

2.2 Sediment Sampling and Analysis

A sediment sample (G643M0001) was collected from a stormwater catch basin located approximately 50 ft northwest of Building 125. Figure 2-1 illustrates the location of the sediment sample.

Results of the sediment analysis were not compared to RBCs or BRCs in the *Zone G RFI Report, Revision 0*, as the sample was collected from a concrete-lined stormwater catch basin. The material collected from this concrete structure was not considered a true sediment generated in a native setting. Therefore, comparison to screening criteria was considered inappropriate.

Analytes that were detected in the sediment sample were instead compared to analytes detected in site soil to determine if contaminant migration to the stormwater system was occurring. The results of the analysis of the sediment sample are summarized in Table 10.10.6 of the *Zone G RFI Report, Revision 0*; this table is included in Appendix A of this RFI Report Addendum.

The information presented in the Nature and Extent of Contamination section (10.1.4) of the *Zone G RFI Report, Revision 0* presented the following conclusions regarding sediment at AOC 643:

- One VOC, trichloroethene (TCE), was detected in the sediment sample at a trace concentration level of 3 µg/kg. Twenty-two SVOCs were detected in the sediment sample. Sixteen of the SVOCs detected in the sediment sample were also detected in site soil.

- Eight pesticides were detected in the sediment sample. Seven of the detected pesticides were also detected in site soil. No PCBs were detected in the sediment sample.

The Fate and Transport section (10.10.5) of the *Zone G RFI Report, Revision 0* concluded that because many compounds that were detected in site soil were also detected in the sediment sample, the soil-to-sediment migration should be considered viable.

The HHRA section (10.10.6) of the *Zone G RFI Report, Revision 0* did not evaluate constituents detected in the sediment sample.

2.3 Groundwater Sampling and Analysis

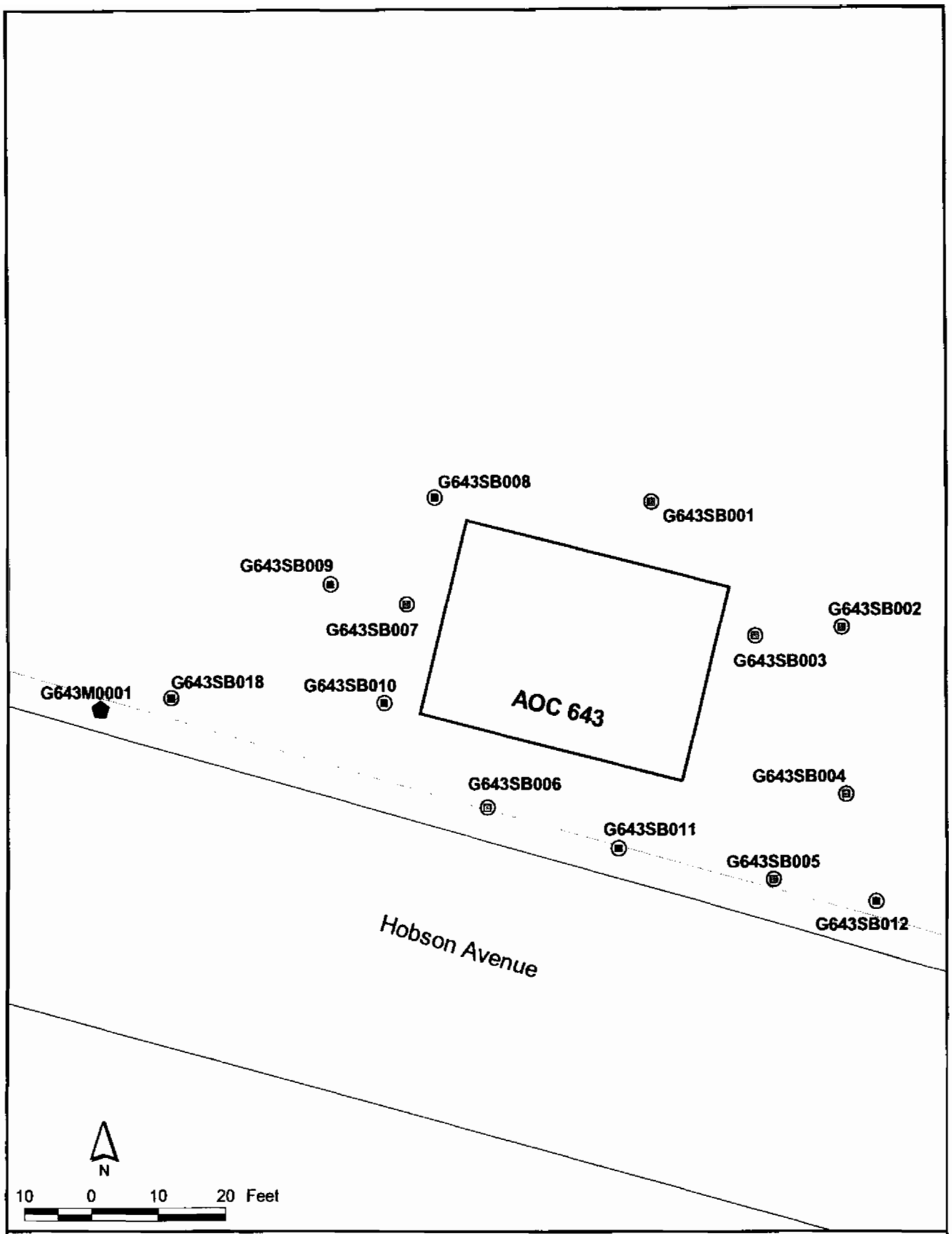
Groundwater was not sampled at AOC 643. However, subsurface soil results do not indicate that there is an imminent threat to site groundwater.

2.4 COPC/COC Summary

The *Zone G RFI Report, Revision 0* concluded that, based on the analytical results and the HHRA, the following COCs were identified for surface soil at AOC 643, under an unrestricted (residential) land use scenario:

- Arsenic
- Chromium
- Vanadium
- Aroclor-1260
- BEQs

No COPCs, and consequently no COCs, were identified for subsurface soil, sediment, or groundwater at AOC 643.



First Round RFI Subsurface Soil Samples
Second Round RFI Subsurface Soil Samples
First Round RFI Surface Soil Samples
Second Round RFI Surface Soil Samples
Sediment Sample

Pavement
Sidewalk
Roads
AOC Boundary
Buildings

Figure 2-1
RFI Soil Sample Locations
AOC 643, Zone G
Charleston Naval Complex

CH2MHILL

File Path: C:\18gis\Projects\Zone_G\aoc_643\aprs\aoc_643_v4.apr, Date: 22 Oct 2001 8:39, User: ASWINFOR, Figure 2-1 - Figure 2-1 RFI Soil Sample Locations

3.0 Interim Measures and UST/AST Removals

An IM was performed at AOC 643 to remove surface soil contaminated with PCBs and arsenic. The PCB cleanup goal was 1,000 µg/kg (1 milligram per kilogram [mg/kg]), and the arsenic cleanup goal was the BRC of 17.2 mg/kg that was established in the *Zone G RFI Report, Revision 0* (EnSafe, 1998a). Because BEQs were detected above their RBC in four sampling locations, it was recommended by SOUTHDIV that one sample be collected and analyzed for BEQs and reported for information.

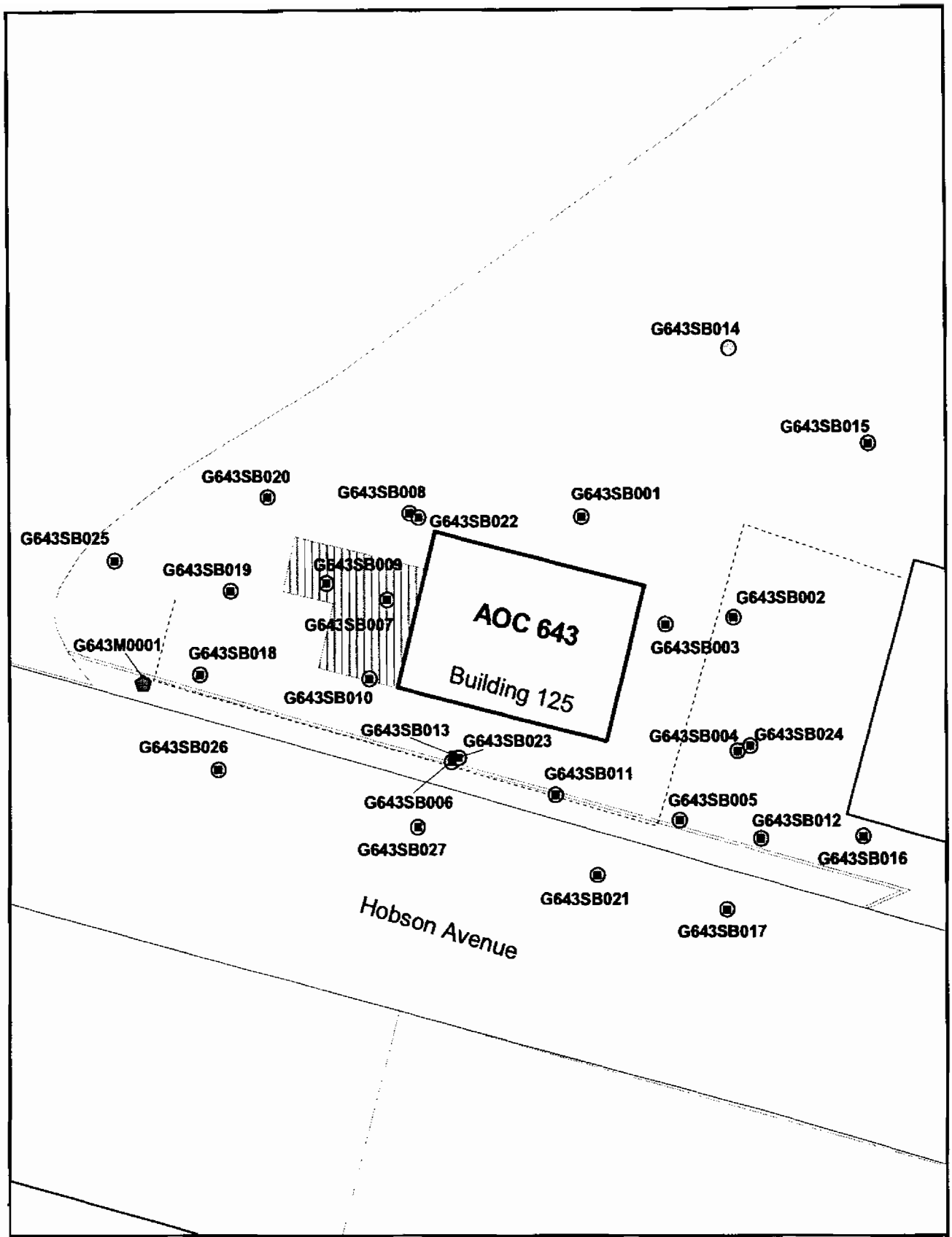
Two surface soil sample locations (G643SB007: 1,700 µg/kg and G643SB010: 1,170 µg/kg) were identified in the *Zone G RFI Report, Revision 0* with reported concentrations of the PCB Aroclor-1260 above the target cleanup goal. A single soil sample location was found to contain arsenic (G643SB009: 52.7 mg/kg) at a concentration above the Zone G BRC (17.2 mg/kg). Three samples collected within 20 ft of sample location G643SB009 all presented arsenic concentrations of less than the cleanup level, indicating a small area of impacted soil. The three sample locations where Aroclor-1260 and arsenic exceeded their respective cleanup levels are all within approximately 20 ft of one another.

In March 1999, 12 samples were collected and analyzed for PCBs to determine the extent of surface soil impacted with Aroclor-1260. All 12 samples reported Aroclor-1260 concentrations below the target cleanup level. These sample locations were used to define the IM excavation boundary. Figure 1 of the IM Completion Report (EEG, 1999) illustrates the locations of the delineation samples and the excavation boundary. The IM Completion Report is included in Appendix B of this RFI Report Addendum.

Surface soil within the proposed excavation area was removed to a depth of approximately 1 ft below land surface (ft bls). Figure 3-1 of this RFI Report Addendum presents the area excavated during the IM. Following the initial excavation, five soil samples (13 through 17) were collected to confirm that the remaining soil met the established cleanup criteria. Three samples (13, 14, and 15) were collected in the area of the PCB exceedance. One of these samples (13) was also analyzed for BEQ compounds. Two samples (16 and 17) collected in the area of the arsenic exceedance were analyzed for arsenic. The locations of these confirmation samples are illustrated on Figure 2 of the IM Completion Report (see Appendix B). The results of these confirmation samples indicated that with the exception of one sample location (15: Aroclor-1260 1.8 mg/kg), the remaining soil met the established cleanup goals.

Further excavation was conducted around sample location 15. An area measuring 6 ft by 4 ft, and 2 ft deep within the initial excavation area was identified for additional removal. Following the removal of the additional soil, two more confirmation samples were collected and analyzed for PCBs. The locations of these confirmation samples are illustrated on Figure 3 of the IM Completion Report (see Appendix B). The results of these confirmation samples indicated that the remaining soil met the target cleanup goals. The IM effectively removed PCB- and arsenic-impacted soil above the cleanup criteria.

There are no USTs or ASTs associated with Building 125 (AOC 643).



Excavated Subsurface Soil Samples
Excavated Surface Soil Samples
Sediment Sample
Building / AOC Boundary
IM Excavation Area
Sidewalk
Fence
Roads
Pavement
N
0 20 40 Feet

Figure 3-1
IM Excavation Area
AOC 643, Zone G
Charleston Naval Complex

CH2MHILL

File Path: C:\18gis\Projects\Zone_G\aoc_643\aprs\aoc_643_v4.apr, Date: 28 Nov 2001 11:13, User: ASWINFOR, IM Excavation Area - Figure 3-1 IM Excavation Area

4.0 Summary of Additional Investigations

During the latter part of 1999 and early 2000, additional field activities were conducted at AOC 643 subsequent to the *Zone G RFI Report, Revision 0* (EnSafe, 1998a) in general accordance with the *Zone G RFI Work Plan Addendum* (EnSafe, 2000). Additional soil samples (G643SB01302 and G643SB024S1) were collected to determine potential leachability from soil by measuring synthetic precipitation leaching procedure (SPLP) leach ratios. Soil samples G643SB01302 and G643SB024T1 were analyzed for metals, and sample G643SB01302 was also analyzed for PCBs and pesticides.

In addition to the SPLP samples, ten samples were proposed in the *Zone G RFI Work Plan Addendum* (WPA) to delineate the extent of BEQs, metals, and the PCB Aroclor-1260. These sample locations were identified as G643SB0014 through G643SB023. Only a surface soil sample was collected at G643SB014, and it was analyzed for SVOCs and pesticides. Surface and subsurface samples G643SB015 through G643SB023 were analyzed for metals and SVOCs. Surface and subsurface samples G643SB018, G643SB019, G643SB020, G643SB022, and G643SB023 were also analyzed for PCBs, and the samples collected at G643SB023 were analyzed for pesticides.

Three soil borings (G643SB025, G643SB026, and G643SB027) were advanced in addition to the borings recommended in the *Zone G RFI Work Plan Addendum*. The samples collected from these borings were analyzed for metals and SVOCs.

In July 2001, CH2M-Jones submitted a sampling plan (CH2M-Jones, 2001b) for the collection of two samples at locations where BEQs or DDE had previously been reported at concentrations above their respective screening criteria. These samples were collected in September 2001. The results of this sampling event are discussed herein.

Locations of the WPA borings are shown in Figure 4-1. The data from the additional investigations are summarized in this section. Analytical data results and validation reports are provided in Appendices C and D of this RFI Report Addendum, respectively.

4.1 Additional Soil Sampling and Analysis

A total of 12 surface soil and 13 subsurface soil samples from 14 locations were collected during December 1999 and January 2000 under the EnSafe WPA. Two additional samples

(co-located with earlier samples) were collected by CH2M-Jones in 2001 to confirm the presence of chemicals in two of the previous samples, as presented in Figure 4-1.

Analytical results from the additional samples were compared to appropriate screening criteria. Surface soil results were compared to the range of Zone G background concentrations, generic SSLs (DAF=1 for VOCs, DAF=10 for all other parameters), and EPA Region III RBC values (non-carcinogens at HI=0.1). Polycyclic aromatic hydrocarbons (PAHs), as BEQs, were compared to the site-wide BRC of 1,304 µg/kg for surface soil and 1,400 µg/kg for subsurface soil. Section 4.0 of the *CNC Project Team Notebook and Instructions, Revision 1* (CH2M-Jones, 2001c) includes a detailed description of the COPC screening process and the source of criteria used.

When both the Zone G background concentration and either the RBC or SSL were exceeded, the chemical was selected as a COPC and is discussed further in Section 5.0 of this RFI Report Addendum. Similarly, subsurface soil results were compared to the Zone G background concentrations and SSLs. When both criteria were exceeded, the chemical was selected as a COPC for the soil-to-groundwater leachability pathway. Tables 4-1 through 4-4 present the analytical result summaries for the additional samples for surface and subsurface soil. Analytical results that exceeded the appropriate screening criteria are shown in bold text and outlined within the tables.

4.1.1 Surface Soil Results

Cobalt

Cobalt was detected in three WPA surface soil samples at concentrations exceeding its Zone G surface soil background range (1.1 to 6.7 mg/kg). Two of the samples, G643SB017 (9.9 mg/kg) and G643SB021 (32.7 mg/kg), were actually collected from beneath the pavement of Hobson Avenue, outside of AOC 643. The third sample, G643SB020 (11.5 mg/kg) is located northwest of the AOC, outside of the IM area, near asphalt pavement. These concentrations are all well below the EPA Region III RBC of 470 mg/kg (HI=0.1), and therefore, cobalt is not considered a COPC in surface soil.

Vanadium

Comparison of the additional WPA surface soil data to the screening criteria resulted in one inorganic constituent, vanadium, being identified as a COPC, as it exceeded its Zone G background range maximum concentration (57 mg/kg) and its RBC (55 mg/kg, HI=0.1). Vanadium was detected in three surface soil samples (G643SB01601: 185 mg/kg; G643SB01901: 74.4 mg/kg; and G643SB02301: 112 mg/kg) at concentrations above the

screening criteria. Vanadium is evaluated as a surface soil COPC in Section 5.0 of this RFI Report Addendum.

SVOCs

Several SVOCs, primarily PAHs (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthrene, dibenz[a,h]anthracene, and ideno[1,2,3-c,d]pyrene), were identified as exceeding their RBCs at four sample locations (G643SB015, G643SB018, G643SB021, and G643SB025). One or more of these constituents (except benzo[k]fluoranthrene) also exceeded their respective SSLs at three locations (G643SB015, G643SB021, and G643SB025). The calculated BEQ values at these locations were 1,767.2 µg/kg (G643SB015), 187.9 µg/kg (G643SB018), 728.3 µg/kg (G643SB021), and 21,074 µg/kg (G643SB025). The calculated BEQ results from samples G643SB015 and G643SB025 exceeded the BEQ reference concentration of 1,304 ug/kg for surface soil. Sample location G643SB025 displayed the highest of the detected concentrations, and was further evaluated by CH2M-Jones with a re-sampling event, as discussed in Section 4.1.2 below.

4.1.2 CH2M-Jones Sampling Results

CH2M-Jones re-sampled surface soil at soil boring G643SB025 in September 2001, as the previous WPA sample was collected adjacent to or beneath an asphalt-paved area (asphalt components contain PAHs). The new sample (G643SB02901) was analyzed for the seven PAHs used to calculate a BEQ concentration. Benzo(a)anthracene (117 J µg/kg), benzo(a)pyrene (128 J µg/kg), benzo(b)fluoranthrene (275 J µg/kg), benzo(k)fluoroantrene (1,287 J µg/kg), chrysene (151 J µg/kg), and ideno(1,2,3-c,d)pyrene (193 J µg/kg) were detected in the sample. Dibenz(a,h)anthracene (357 UJ µg/kg) was not detected. The calculated BEQ value at this location is 366.4 µg/kg These results indicate that the original detections at this location may have been associated with the asphalt pavement; thus, PAHs are not considered COPCs in surface soil at AOC 643.

In WPA sample G643SB01401 (4.3 mg/kg), the pesticide DDE was detected above its RBC of 1.9 mg/kg. This location was also re-sampled by CH2M-Jones in September 2001. The analytical results for this sample (G643SB02801, see Figure 4-1) indicated that DDD (0.136 mg/kg), DDE (0.949 mg/kg), and DDT (0.291 U mg/kg) were all present at concentrations below their respective RBCs (DDD: 2.7 mg/kg; DDE: 1.9 mg/kg; and DDT: 1.9 mg/kg). DDE will be discussed in Section 5.0 to evaluate its significance as a COPC in surface soil.

Evaluation of the WPA data collected by EnSafe identified vanadium and DDE as COPCs; additional data collected by CH2M-Jones will be used to evaluate DDE and vanadium as COPCs in surface soil at AOC 643 in Section 5.0 of this RFI Report Addendum. A summary

of the WPA and CH2M-Jones surface soil sampling results is presented in Tables 4-1 and 4-2.

4.1.3 Subsurface Soil Results

Comparison of the additional WPA subsurface soil data to the screening criteria indicated that cobalt and tin exceeded their respective Zone G background range maximum concentrations. A generic SSL was not available for these two constituents.

Arsenic and chromium were also detected at concentrations above their respective SSLs in WPA subsurface samples, but these concentrations were within the Zone G range of background concentrations for these constituents.

Cadmium and lead were detected at concentrations above their respective Zone G range of background concentrations, but were below their SSLs.

Cobalt and tin were identified as COPCs in subsurface soil from the WPA samples, based on a single sample exceeding the background range for each metal (see table 4-3). These constituents will be discussed further in Section 5.0 of this RFI Report Addendum. A summary of subsurface soil data collected during the additional fieldwork is presented in Tables 4-3 and 4-4.

4.2 Additional Groundwater Sampling and Analysis

Groundwater was not sampled at AOC 643.

4.3 COPC/COC Summary

Evaluation of data collected by EnSafe and CH2M-Jones after submittal of the *Zone G RFI Report, Revision 0* resulted in the identification of vanadium and DDE as COPCs in surface soil at AOC 643. Cobalt and tin were identified as COPCs in subsurface soil, due to exceedance of background values in only a single sample each, in the absence of other criteria for comparison. The significance of these chemicals as COPCs is discussed in Section 5.0 of this report addendum.

TABLE 4-1
Inorganic Analytes Detected in Surface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Region III Residential Soil RBC[a] (HI=0.1)	Soil-to-Groundwater SSL[b] (DAF=10)	Zone G Surface Soil Background Concentration Range[c]
Aluminum	G643SB018	5,550	J	7,800	NL	2,190 - 17,800
	G643SB019	5,430	J			
	G643SB017	4,790	J			
	G643SB023	7,870	J			
	G643SB022	9,980	J			
	G643SB016	6,690	J			
	G643SB024	5,030	J			
	G643SB020	3,540	J			
	G643SB015	5,890	J			
	G643SB027	4,020	=			
	G643SB026	4,530	=			
	G643SB025	4,490	=			
	G643SB021	5,150	=			
Arsenic	G643SB023	24.30	=	0.43[d]	14.5	3.1 - 25
	G643SB020	14.00	=			
	G643SB024	4.90	=			
	G643SB022	9.60	=			
	G643SB016	3.70	=			
	G643SB018	7.10	=			
	G643SB019	19.00	=			
	G643SB017	1.70	=			
	G643SB015	9.30	=			
	G643SB025	3.80	=			
	G643SB027	3.30	=			
	G643SB026	1.60	J			
	G643SB021	1.80	J			
Barium	G643SB024	18.80	J	550	800	11 - 129
	G643SB020	11.40	J			
	G643SB023	21.10	J			
	G643SB018	27.30	J			
	G643SB016	14.80	J			
	G643SB015	21.20	J			
	G643SB019	198.00	J			
	G643SB017	13.30	J			
	G643SB022	25.10	J			
	G643SB026	12.30	=			
	G643SB021	13.40	=			
	G643SB025	43.30	=			
	G643SB027	10.10	=			

TABLE 4-1
Inorganic Analytes Detected in Surface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Region III Residential Soil RBC[a] (HI=0.1)	Soil-to-Groundwater SSL[b] (DAF=10)	Zone G Surface Soil Background Concentration Range[c]
Beryllium	G643SB024	0.43	J	16	31.5	0.47 - 1.1
	G643SB015	0.47	J			
	G643SB018	0.40	J			
	G643SB016	0.49	=			
	G643SB019	0.46	=			
	G643SB022	0.61	=			
	G643SB020	0.32	J			
	G643SB023	0.65	=			
	G643SB017	0.21	J			
	G643SB027	0.29	J			
	G643SB025	0.31	J			
	G643SB026	0.24	J			
	G643SB021	0.26	J			
Cadmium	G643SB025	1.10	J	7.82	4.00	0.12 - 1.7
Calcium	G643SB019	41,300	J	NL	NL	NL
	G643SB018	13,600	J			
	G643SB022	44,600	J			
	G643SB016	5,830	J			
	G643SB023	35,600	J			
	G643SB020	13,100	J			
	G643SB024	7,940	J			
	G643SB017	24,600	J			
	G643SB015	20,900	J			
	G643SB026	13,700	=			
	G643SB021	13,100	=			
	G643SB027	27,000	=			
	G643SB025	27,100	=			
Chromium, Total	G643SB019	37.30	J	23	19	7.0 - 39
	G643SB022	21.80	J			
	G643SB016	30.30	J			
	G643SB020	9.50	J			
	G643SB015	14.20	J			
	G643SB024	16.30	J			
	G643SB018	22.50	J			
	G643SB017	9.00	J			
	G643SB023	22.90	J			
	G643SB026	7.50	=			
	G643SB027	12.40	=			

TABLE 4-1
Inorganic Analytes Detected in Surface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Region III Residential Soil RBC[a] (HI=0.1)	Soil-to-Groundwater SSL[b] (DAF=10)	Zone G Surface Soil Background Concentration Range[c]
Chromium, Total	G643SB021	10.40	=	23	19.00	7.0 - 39
	G643SB025	28.60	=			
Cobalt	G643SB020	11.50	=	470	NL	1.1 - 6.2
	G643SB016	1.50	J			
	G643SB015	2.20	J			
	G643SB024	2.20	J			
	G643SB019	1.70	J			
	G643SB023	2.50	J			
	G643SB017	9.90	=			
	G643SB022	2.80	J			
	G643SB018	2.10	J			
	G643SB021	32.70	=			
	G643SB026	12.70	=			
	G643SB025	2.00	J			
	G643SB027	7.90	=			
Copper	G643SB018	37.40	J	310	5,500	23 - 431
	G643SB016	27.40	J			
	G643SB017	3.70	J			
	G643SB023	67.50	J			
	G643SB022	6.30	J			
	G643SB019	18.30	J			
	G643SB015	11.00	J			
	G643SB020	4.90	J			
	G643SB024	18.60	J			
	G643SB021	10.50	=			
	G643SB025	61.40	=			
	G643SB027	6.10	=			
	G643SB026	5.30	J			
Iron	G643SB018	8,300	J	2,300	NL	4,300 - 32,700
	G643SB019	5,690	J			
	G643SB015	8,590	J			
	G643SB022	9,450	J			
	G643SB016	4,310	J			
	G643SB017	3,140	J			
	G643SB024	8,930	J			
	G643SB023	8,010	J			
	G643SB020	4,440	J			
	G643SB025	6,680	=			

TABLE 4-1
Inorganic Analytes Detected in Surface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Region III Residential Soil RBC[a] (HI=0.1)	Soil-to-Groundwater SSL[b] (DAF=10)	Zone G Surface Soil Background Concentration Range[c]
Iron	G643SB026	3,530	=	2,300	NL	4,300 - 32,700
	G643SB021	3,930	=			
	G643SB027	4,420	=			
Lead	G643SB022	6.30	J	400[e]	400	3.5 - 275
	G643SB017	10.70	J			
	G643SB015	16.30	J			
	G643SB019	70.40	J			
	G643SB018	272.00	J			
	G643SB016	77.60	J			
	G643SB020	10.00	J			
	G643SB023	65.70	J			
	G643SB024	92.80	J			
	G643SB021	19.40	=			
	G643SB027	12.60	=			
	G643SB026	14.20	=			
	G643SB025	307.00	=			
Magnesium	G643SB016	693.00	J	NL	NL	NL
	G643SB020	722.00	J			
	G643SB017	735.00	J			
	G643SB019	1,540.00	J			
	G643SB015	1,130.00	J			
	G643SB018	1,210.00	J			
	G643SB023	2,230.00	J			
	G643SB024	828.00	J			
	G643SB022	1,520.00	J			
	G643SB025	1,080.00	=			
	G643SB021	611.00	=			
	G643SB027	930.00	=			
	G643SB026	480.00	=			
Manganese	G643SB022	123.00	J	160	NL	39 - 359
	G643SB019	180.00	J			
	G643SB016	42.90	J			
	G643SB018	73.30	J			
	G643SB015	74.20	J			
	G643SB024	58.00	J			
	G643SB020	35.30	J			
	G643SB023	62.50	J			
	G643SB017	28.90	J			

TABLE 4-1
Inorganic Analytes Detected in Surface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Region III Residential Soil RBC[a] (HI=0.1)	Soil-to-Groundwater SSL[b] (DAF=10)	Zone G Surface Soil Background Concentration Range[c]
Manganese	G643SB026	32.90	=	160	NL	39 - 359
	G643SB025	76.40	=			
	G643SB021	31.50	=			
	G643SB027	47.00	=			
Mercury	G643SB024	0.04	=	2.3[f]	1	0.060 - 2
	G643SB019	0.06	=			
	G643SB016	0.72	=			
	G643SB023	0.04	=			
	G643SB018	0.13	=			
	G643SB025	0.07	J			
Nickel	G643SB022	9.10	J	160	65	2 - 26.5
	G643SB024	8.90	J			
	G643SB020	4.00	J			
	G643SB015	6.60	J			
	G643SB023	13.70	J			
	G643SB019	11.40	J			
	G643SB017	3.60	J			
	G643SB016	27.00	J			
	G643SB018	15.40	J			
	G643SB025	13.20	=			
	G643SB021	4.40	J			
	G643SB027	4.00	J			
	G643SB026	4.30	J			
Potassium	G643SB015	595.00	=	NL	NL	NL
	G643SB019	628.00	=			
	G643SB018	491.00	=			
	G643SB024	395.00	J			
	G643SB022	858.00	=			
	G643SB020	332.00	J			
	G643SB023	891.00	=			
	G643SB016	260.00	J			
	G643SB017	321.00	J			
	G643SB026	190.00	J			
	G643SB027	327.00	=			
	G643SB021	290.00	J			
	G643SB025	292.00	=			
Selenium	G643SB020	0.46	J	39	2.5	0.45 - 1.4
	G643SB019	0.81	J			

TABLE 4-1
Inorganic Analytes Detected in Surface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Region III Residential Soil RBC[a] (HI=0.1)	Soil-to-Groundwater SSL[b] (DAF=10)	Zone G Surface Soil Background Concentration Range[c]
Selenium	G643SB016	0.60	J	39	2.5	0.45 - 1.4
	G643SB017	0.37	J			
	G643SB015	0.80	J			
	G643SB024	0.79	J			
	G643SB018	1.10	=			
	G643SB023	0.80	J			
	G643SB022	0.92	J			
	G643SB021	0.59	J			
Sodium	G643SB024	154.00	J	NL	NL	NL
	G643SB015	196.00	J			
	G643SB017	250.00	J			
	G643SB016	115.00	J			
	G643SB020	155.00	J			
	G643SB019	492.00	=			
	G643SB022	764.00	=			
	G643SB023	491.00	=			
	G643SB018	215.00	J			
	G643SB027	449.00	=			
	G643SB026	338.00	J			
	G643SB025	323.00	J			
	G643SB021	385.00	=			
Vanadium	G643SB015	20.40	J	55	3,000	7.2 - 57
	G643SB016	**185.00**	J			
	G643SB017	8.90	J			
	G643SB023	**112.00**	J			
	G643SB019	36.90	J			
	G643SB024	38.60	J			
	G643SB020	10.00	J			
	G643SB018	**74.40**	J			
	G643SB022	23.50	J			
	G643SB027	10.70	=			
	G643SB025	28.90	=			
	G643SB021	15.00	=			
	G643SB026	17.20	=			
Zinc	G643SB016	118.00	J	2,300	6,000	18 - 1,650
	G643SB017	20.70	J			
	G643SB015	34.00	J			
	G643SB018	146.00	J			

TABLE 4-1
Inorganic Analytes Detected in Surface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Region III Residential Soil RBC[a] (HI=0.1)	Soil-to-Groundwater SSL[b] (DAF=10)	Zone G Surface Soil Background Concentration Range[c]
Zinc	G643SB019	71.50	J	2,300	6,000	18 - 1,650
	G643SB024	42.90	J			
	G643SB023	84.50	J			
	G643SB022	24.40	J			
	G643SB020	17.70	J			
	G643SB021	37.20	J			
	G643SB026	17.90	J			
	G643SB027	24.30	J			
	G643SB025	183.00	J			

Concentrations in bold and outlined in boxes exceeded the RBCs or SSLs and the Zone G background concentration range.

[a] Residential RBCs (HI=0.1 for non-carcinogens) were obtained from the EPA Region III RBC Table, October 5, 2000 (http://www.epa.gov/eaphome/search.html), unless otherwise noted.

[b] Generic soil-to-groundwater SSLs (DAF = 10) are from EPA Soil Screening Guidance: Technical Background Document (Table A-1), EPA/540/R-95/128, May 1996, unless otherwise noted.

[c] Background values for Zone G are as described in the Zone G RFI Report, Revision 0 (EnSafe, 1998) Section 5 – Data Evaluation and Background Comparison.

[d] Carcinogen-residential RBC was used directly from the EPA Region III RBC Table, October 5, 2000.

[e] Residential RBC for lead was obtained from EPA Soil Screening Guidance: Technical Background Document, Appendix A (page A-5) EPA/540/R-95/128, May 1996.

[f] Residential RBC (THI=0.1) for mercury was obtained from the EPA Region III RBC Table document distributed on October 22, 1997.

= Chemical is detected at the concentration shown.

HI Hazard index

J Chemical is detected at a concentration below the method detection limit (MDL), the concentration is not known.

NL Not listed

RBC Risk-based concentration

DAF Dilution attenuation factor

SSL Soil screening level

TABLE 4-2
Organic Analytes Detected in Surface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Region III Residential Soil RBC[a] (HI=0.1)	Soil-to-Groundwater SSL[b] (DAF=10)	BEQ Surface Soil BRC[c]
PCB-1260 (Aroclor-1260)	G643SB018	0.076	=	0.319		
Gamma-chlordane	G643SB014	0.028	J			
Heptachlor Epoxide	G643SB014	0.003	=	0.070	0.35	
p,p'-DDD	G643SB014	0.67	=	2.661	8	
	G643SB028	0.136	=			
p,p'-DDE	G643SB023	0.17	=	1.879	27	
	G643SB014	**4.3**	=			
	G643SB028	0.0949	=			
p,p'-DDT	G643SB014	0.039	=	1.879	16	
	G643SB023	0.096	=			
2-Methylnaphthalene	G643SB025	1.1	J	156	NL	
	G643SB021	0.041	J			
Acenaphthene	G643SB015	0.02	J	469	285	
	G643SB021	0.22	J			
	G643SB025	6.3	=			
Acenaphthylene	G643SB015	0.19	=			
	G643SB021	0.025	J			
Anthracene	G643SB018	0.029	J	2,346	6,000	
	G643SB015	0.1	=			
	G643SB014	0.022	J			
	G643SB021	0.27	J			
	G643SB025	8.2	=			
Benzo(a)Anthracene	G643SB023	0.022	J	0.875	1	0.616
	G643SB018	0.12	=			
	G643SB016	0.06	=			
	G643SB015	0.83	=			
	G643SB025	17	=			
	G643SB021	0.59	=			
	G643SB027	0.02	J			
	G643SB014	0.082	J			
	G643SB029	0.117	J			
Benzo(a)Pyrene	G643SB018	0.12	J	0.087[d]	4	0.598
	G643SB023	0.038	J			
	G643SB015	1.2	J			

TABLE 4-2
Organic Analytes Detected in Surface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Region III Residential Soil RBC[a] (HI=0.1)	Soil-to-Groundwater SSL[b] (DAF=10)	BEQ Surface Soil BRC[c]
Benzo(a)Pyrene	G643SB025	13	=	0.087[d]	4	0.598
	G643SB021	0.48	=			
	G643SB027	0.024	J			
	G643SB014	0.087	J			
	G643SB029	0.128	J			
Benzo(b)Fluoran-thene	G643SB018	0.17	J	0.875[d]	2.5	0.608
	G643SB016	0.088	J			
	G643SB023	0.06	=			
	G643SB015	1.6	J			
	G643SB014	0.11	J			
	G643SB027	0.03	J			
	G643SB021	0.51	=			
	G643SB025	13	=			
	G643SB029	0.275	J			
Benzo(g,h,i)Pery-lene	G643SB018	0.062	J	NL	NL	NL
	G643SB023	0.046	=			
	G643SB015	0.43	J			
	G643SB026	0.09	J			
	G643SB027	0.041	J			
	G643SB025	7.5	=			
	G643SB021	0.29	J			
	G643SB014	0.057	J			
Benzo(k)Fluoran-thene	G643SB015	1.5	J	8.75[d]	24.5	0.596
	G643SB016	0.061	J			
	G643SB018	0.095	J			
	G643SB023	0.04	=			
	G643SB025	**9.7**	=			
	G643SB027	0.025	J			
	G643SB021	0.37	J			
	G643SB014	0.094	J			
	G643SB029	0.128	J			
Benzoic acid	G643SB027	0.095	J	31,286	200	NL
	G643SB014	0.31	J			
Benzyl Butyl Phthalate	G643SB014	0.025	J	1,564	465	NL

TABLE 4-2
Organic Analytes Detected in Surface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Region III Residential Soil RBC[a] (HI=0.1)	Soil-to-Groundwater SSL[b] (DAF=10)	BEQ Surface Soil BRC[c]
Chrysene	G643SB015	1.2	=	87[d]	80	0.620
	G643SB018	0.16	=			
	G643SB020	0.019	J			
	G643SB023	0.055	=			
	G643SB016	0.066	=			
	G643SB025	17	=			
	G643SB014	0.087	J			
	G643SB027	0.03	J			
	G643SB021	0.58	=			
	G643SB029	0.151	J			
Dibenz(a,h)anthracene	G643SB018	0.032	J	0.087[d]	1	0.525
	G643SB015	0.26	J			
	G643SB025	**4.2**	=			
	G643SB021	0.11	J			
Dibenzofuran	G643SB025	2.1	J	31.3	0	NL
	G643SB021	0.081	J			
Diethyl Phthalate	G643SB014	0.022	J	6,257	235	NL
Di-n-butyl Phthalate	G643SB027	0.024	J	782	1,150	NL
	G643SB014	0.031	J			
	G643SB021	0.033	J			
Fluoranthene	G643SB018	0.24	=	313	2,150	NL
	G643SB016	0.11	=			
	G643SB015	1.1	=			
	G643SB023	0.081	=			
	G643SB014	0.14	J			
	G643SB027	0.041	J			
	G643SB021	1.3	J			
	G643SB025	33	J			
Fluorene	G643SB021	0.18	J	313	280	NL
	G643SB025	4.6	=			
Indeno(1,2,3-c,d)pyrene	G643SB018	0.058	J	0.875[d]	7	0.525
	G643SB015	0.48	J			
	G643SB023	0.036	J			
	G643SB014	0.047	J			
	G643SB021	0.24	J			

TABLE 4-2
Organic Analytes Detected in Surface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Region III Residential Soil RBC[a] (HI=0.1)	Soil-to-Groundwater SSL[b] (DAF=10)	BEQ Surface Soil BRC[c]
Indeno(1,2,3-c,d)pyrene	G643SB025	**7.6**	=	0.875[d]	7	0.525
	G643SB027	0.022	J			
	G643SB029	0.193	J			
Phenanthrene	G643SB023	0.06	=			
	G643SB018	0.16	=			
	G643SB015	0.036	J			
	G643SB016	0.058	=			
	G643SB027	0.021	J			
	G643SB014	0.061	J			
	G643SB021	0.98	J			
	G643SB025	28	=			
Pyrene	G643SB017	0.089	=	235	2,100	
	G643SB023	0.074	=			
	G643SB020	0.02	J			
	G643SB016	0.11	=			
	G643SB015	1.5	=			
	G643SB018	0.27	=			
	G643SB021	0.72	=			
	G643SB014	0.11	J			
	G643SB027	0.05	J			
	G643SB025	18	=			
Naphthalene	G643SB025	2.7	J	156	4	
Total Organic Carbon	G643SB017	0.70	J			
	G643SB018	2.00	J			
	G643SB015	0.40	J			
	G643SB019	2.20	J			
	G643SB022	0.60	J			
	G643SB020	1.10	J			
	G643SB024	1.60	J			
	G643SB023	1.90	J			
	G643SB016	1.10	J			
BEQ[c]	G643SB014	0.307	=			1.304
	G643SB015	**1.760**	=			
	G643SB016	0.054	=			
	G643SB017	0.086	U			
	G643SB018	0.187	=			

TABLE 4-2
Organic Analytes Detected in Surface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Region III Residential Soil RBC[a] (HI=0.1)	Soil-to-Groundwater SSL[b] (DAF=10)	BEQ Surface Soil BRC[c]
BEQ[c]	G643SB019	0.647	U			1.304
	G643SB020	0.045	=			
	G643SB021	0.728	=			
	G643SB022	0.046	U			
	G643SB023	0.069	=			
	G643SB025	**21.070**	=			
	G643SB026	0.959	U			
	G643SB027	0.231	=			

Concentrations in bold and outlined in boxes exceeded the RBCs or SSLs and the Zone G background concentration range.

[a] Non-carcinogen-residential RBCs (HI = 0.1) were obtained from the EPA Region III, Risk-Based Concentration Table, October 5, 2000 (http://www.epa.gov/epahome/search.html), unless noted otherwise.

[b] Generic soil-to-groundwater SSLs (DAF = 10) are from EPA Soil Screening Guidance: Technical Background Document (Table A-1), EPA/540/R-95/128, May 1996, unless otherwise noted.

[d] Carcinogen-residential RBC was used directly from the EPA Region III, Risk-Based Concentration Table, October 5, 2000.

[c] BEQ surface soil background (grid-based) reference screening value is 2x the adjusted mean as reported in the *Background PAHs Study Report – Technical Information for Development of Background BEQ Values*, February 2001, CH2M-Jones.

=	Chemical is detected at the concentration shown.
BEQ	Benzo(a)pyrene equivalent
DAF	Dilution attenuation factor
J	Chemical detected at concentration below the MDL; concentration is not known.
NA	Not applicable/not available/not analyzed
NL	Not listed
RBC	Risk-based concentration
U	Chemical was not detected; the reported value is the detection limit.

BEQ Calculation Procedure:
BEQ = Sum (TP x TEF)
TP Target Parameter
TEF Toxicity equivalency factor, relative to benzo(a)pyrene

Target Parameter	TEF
Benzo(a)anthracene	0.1
Benzo(b)fluoranthene	0.1
Benzo(k)fluoranthene	0.01
Benzo(a)pyrene	1.0
Chrysene	0.001
Dibenz(a,h)anthracene	1.0
Indeno(1,2,3-c,d)pyrene	0.1

If there was no detection of the TP, half the TP detection limit was used.
If there was no detection of all seven TPs, then BEQ = nondetect.

TABLE 4-3
Inorganic Analytes Detected in Subsurface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Soil-to-Groundwater SSL[a] (DAF=10)	Zone G Surface Soil Background Concentration Range[b]
Aluminum	G643SB021	3,670	=	NL	2,630 - 36,800
	G643SB026	2,860	=		
	G643SB015	6,340	J		
	G643SB027	5,020	=		
	G643SB019	3,660	J		
	G643SB016	6,650	J		
	G643SB018	2,230	J		
	G643SB025	26,400	=		
	G643SB017	3,880	J		
	G643SB013	5,050	=		
	G643SB024	4,860	J		
	G643SB022	6,780	J		
	G643SB020	5,080	J		
	G643SB023	6,780	J		
Antimony	G643SB013	0.62	J	2.5	1.5 – 19[c]
Arsenic	G643SB018	2.60	=	14.5	1.4 - 36
	G643SB025	13.00	=		
	G643SB021	1.50	J		
	G643SB027	4.80	=		
	G643SB017	3.70	=		
	G643SB019	3.00	=		
	G643SB026	3.10	=		
	G643SB020	5.60	=		
	G643SB023	8.50	=		
	G643SB022	5.10	=		
	G643SB024	3.80	=		
	G643SB013	7.90	=		
	G643SB015	5.30	=		
	G643SB016	14.70	=		
Barium	G643SB019	10.40	J	800	7.7 - 63
	G643SB017	9.30	J		
	G643SB021	10.90	=		
	G643SB025	29.20	=		
	G643SB026	8.00	=		
	G643SB015	16.30	J		
	G643SB022	9.30	J		
	G643SB020	8.10	J		
	G643SB024	9.60	J		

TABLE 4-3
Inorganic Analytes Detected in Subsurface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Soil-to-Groundwater SSL[a] (DAF=10)	Zone G Surface Soil Background Concentration Range[b]
Barium	G643SB013	14.80	=	800	7.7 - 63
	G643SB027	8.90	=		
	G643SB023	11.00	J		
	G643SB018	5.90	J		
	G643SB016	21.00	J		
Beryllium	G643SB024	0.38	J	31.5	0.45 - 2.4
	G643SB023	0.48	J		
	G643SB020	0.47	J		
	G643SB018	0.29	J		
	G643SB026	0.23	J		
	G643SB022	0.37	J		
	G643SB027	0.39	J		
	G643SB021	0.23	J		
	G643SB016	0.31	J		
	G643SB015	0.53	=		
	G643SB013	0.60	J		
	G643SB019	0.33	J		
	G643SB017	0.34	J		
	G643SB025	1.40	=		
Cadmium	G643SB025	1.20	J	4	0.08 - 0.52
	G643SB013	0.36	J		
Calcium	G643SB024	8,520	J	NL	NL
	G643SB019	4,580	J		
	G643SB017	9,060	J		
	G643SB026	24,200	=		
	G643SB016	3,840	J		
	G643SB025	7,620	=		
	G643SB013	28,900	=		
	G643SB015	17,700	J		
	G643SB018	4,570	J		
	G643SB022	93,100	J		
	G643SB020	5,840	J		
	G643SB023	20,300	J		
	G643SB027	6,160	=		
	G643SB021	23,200	=		
Chromium, Total	G643SB013	0.68	J	19	7.4 - 65
	G643SB013	16.40	=		
	G643SB026	9.50	=		

TABLE 4-3
Inorganic Analytes Detected in Subsurface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Soil-to-Groundwater SSL[a] (DAF=10)	Zone G Surface Soil Background Concentration Range[b]
Chromium, Total	G643SB020	12.10	J	19	7.4 - 65.4
	G643SB015	16.10	J		
	G643SB019	9.30	J		
	G643SB017	9.20	J		
	G643SB025	45.00	=		
	G643SB016	37.70	J		
	G643SB024	4.60	J		
	G643SB018	7.00	J		
	G643SB027	12.20	=		
	G643SB021	10.90	=		
	G643SB023	18.10	J		
	G643SB022	23.40	J		
	G643SB024	12.10	J		
Cobalt	G643SB013	2.20	J	NL	0.9 - 15
	G643SB027	3.00	J		
	G643SB022	1.70	J		
	G643SB023	2.00	J		
	G643SB024	1.50	J		
	G643SB025	5.70	=		
	G643SB020	2.00	J		
	G643SB017	3.60	J		
	G643SB021	**20.40**	=		
	G643SB016	1.30	J		
	G643SB019	1.30	J		
	G643SB015	2.30	J		
	G643SB018	0.69	J		
	G643SB026	1.00	J		
Copper	G643SB013	59.50	=	5,500[d]	4.5 - 46
	G643SB018	2.20	J		
	G643SB015	8.70	J		
	G643SB026	4.60	J		
	G643SB021	4.80	J		
	G643SB027	2.30	J		
	G643SB017	2.00	J		
	G643SB019	1.40	J		
	G643SB025	7.00	J		
	G643SB024	4.90	J		
	G643SB016	25.40	J		
	G643SB023	6.80	J		

TABLE 4-3
Inorganic Analytes Detected in Subsurface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Soil-to-Groundwater SSL[a] (DAF=10)	Zone G Surface Soil Background Concentration Range[b]
Copper	G643SB022	5.50	J	5,500[d]	4.5 - 46
	G643SB020	2.10	J		
Iron	G643SB026	3,200	=	NL	3,110 - 58,100
	G643SB025	26,100	=		
	G643SB019	5,120	J		
	G643SB016	6,660	J		
	G643SB017	6,000	J		
	G643SB021	2,850	=		
	G643SB027	7,250	=		
	G643SB018	3,510	J		
	G643SB015	8,050	J		
	G643SB013	10,100	=		
	G643SB022	6,450	J		
	G643SB023	9,920	J		
	G643SB024	6,230	J		
	G643SB020	8,290	J		
Lead	G643SB019	4.70	J	400	2.4 - 76
	G643SB013	76.60	=		
	G643SB023	9.70	J		
	G643SB022	4.00	J		
	G643SB025	11.60	=		
	G643SB020	4.90	J		
	G643SB015	13.10	J		
	G643SB026	10.80	=		
	G643SB021	8.90	=		
	G643SB024	13.30	J		
	G643SB018	10.20	J		
	G643SB016	34.50	J		
	G643SB027	4.50	=		
	G643SB017	5.00	J		
Magnesium	G643SB020	1,410	J	NL	NL
	G643SB019	633	J		
	G643SB013	1,760	=		
	G643SB015	1,240	J		
	G643SB022	2,400	J		
	G643SB018	431	J		
	G643SB027	1,210	=		
	G643SB024	886	J		

TABLE 4-3
Inorganic Analytes Detected in Subsurface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Soil-to-Groundwater SSL[a] (DAF=10)	Zone G Surface Soil Background Concentration Range[b]
Magnesium	G643SB021	835	=	NL	1,040 - 7,040
	G643SB023	1,530	J		
	G643SB025	4,200	=		
	G643SB026	1,000	=		
	G643SB017	933	J		
	G643SB016	933	J		
Manganese	G643SB025	188.00	=	NL	20 - 409
	G643SB024	44.30	J		
	G643SB020	73.80	J		
	G643SB022	89.40	J		
	G643SB013	113.00	=		
	G643SB023	48.20	J		
	G643SB017	60.30	J		
	G643SB019	35.00	J		
	G643SB016	53.80	J		
	G643SB021	30.50	=		
	G643SB018	17.10	J		
	G643SB026	38.90	=		
	G643SB027	59.90	=		
	G643SB015	67.20	J		
Mercury	G643SB016	0.07	=	1	0.05 - 0.37
	G643SB013	0.03	J		
Nickel	G643SB019	3.10	J	65[d]	1.9 - 22
	G643SB015	5.40	J		
	G643SB013	8.00	=		
	G643SB022	9.20	J		
	G643SB024	5.90	J		
	G643SB020	3.40	J		
	G643SB016	8.00	J		
	G643SB023	6.20	J		
	G643SB018	2.10	J		
	G643SB017	2.80	J		
	G643SB026	3.90	J		
	G643SB025	12.50	=		
	G643SB021	3.50	J		
	G643SB027	3.20	J		
Potassium	G643SB015	707	=	NL	NL
	G643SB025	2,050	=		

TABLE 4-3
Inorganic Analytes Detected in Subsurface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Soil-to-Groundwater SSL[a] (DAF=10)	Zone G Surface Soil Background Concentration Range[b]
Potassium	G643SB022	880	=	NL	NL
	G643SB024	397	J		
	G643SB020	708	=		
	G643SB023	781	=		
	G643SB013	520	=		
	G643SB021	311	=		
	G643SB019	346	J		
	G643SB016	229	J		
	G643SB018	187	J		
	G643SB017	487	J		
	G643SB027	571	=		
	G643SB026	297	J		
Selenium	G643SB023	0.76	J	2.5	0.54 - 1
	G643SB019	0.53	J		
	G643SB018	0.42	J		
	G643SB017	0.62	J		
	G643SB022	0.89	J		
	G643SB024	0.67	J		
	G643SB020	0.72	J		
	G643SB016	0.65	J		
	G643SB015	0.69	J		
Sodium	G643SB026	457	=	NL	NL
	G643SB016	127	J		
	G643SB015	215	J		
	G643SB027	493	=		
	G643SB017	219	J		
	G643SB025	656	=		
	G643SB021	458	=		
	G643SB018	94	J		
	G643SB023	224	J		
	G643SB022	548	=		
	G643SB019	134	J		
	G643SB024	151	J		
	G643SB013	614	=		
	G643SB020	182	J		
Thallium	G643SB013	0.60	J	0.35	ND
	G643SB025	1.00	J		

TABLE 4-3
Inorganic Analytes Detected in Subsurface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Soil-to-Groundwater SSL[a] (DAF=10)	Zone G Surface Soil Background Concentration Range[b]
Tin (Sn)	G643SB013	**16.60**	J	NL	1.1 - 2.9
Vanadium	G643SB013	18.40	=	3,000	5.9 - 112
	G643SB027	12.30	=		
	G643SB017	10.10	J		
	G643SB019	10.30	J		
	G643SB026	7.30	=		
	G643SB020	14.20	J		
	G643SB016	63.90	J		
	G643SB015	18.30	J		
	G643SB018	8.40	J		
	G643SB021	8.20	=		
	G643SB025	50.40	=		
	G643SB023	26.60	J		
	G643SB024	20.20	J		
	G643SB022	17.50	J		
Zinc	G643SB026	25.60	J	6,000	20 - 198
	G643SB013	195.00	=		
	G643SB015	32.40	J		
	G643SB019	11.20	J		
	G643SB027	16.70	J		
	G643SB018	17.90	J		
	G643SB024	22.10	J		
	G643SB021	21.80	J		
	G643SB016	101.00	J		
	G643SB020	14.20	J		
	G643SB023	46.80	J		
	G643SB017	13.70	J		
	G643SB025	43.90	J		
	G643SB022	25.50	J		

Concentrations In bold and outlined in boxes exceeded the RBCs or SSLs and the Zone G background concentration range.

[a] Generic soil-to-groundwater SSLs (DAF = 10) are from EPA Soil Screening Guidance: Technical Background Document (Table A-1), EPA/540/R-95/128, May 1996, unless otherwise noted.

[b] Background values for Zone G are as described in the Zone G RFI Report, Revision 0 (EnSafe, 1998) Section 5 – Data Evaluation and Background Comparison.

[c] Background range for antimony is not available for Zone G due to no detections; range shown is for Zone H.

[d] Where SSLs are not available from EPA Tables, SSLs from the EPA Region III RBC tables are used.

= Chemical is detected at the concentration shown.

DAF Dilution attenuation factor

TABLE 4-3
Inorganic Analytes Detected in Subsurface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Soil-to-Groundwater SSL[a] (DAF=10)	Zone G Surface Soil Background Concentration Range[b]

J Chemical is detected at concentration below the MDL; concentration is not known.
NA Not applicable/not available/not analyzed
NL Not listed
SSL Soil screening level

TABLE 4-4
Organic Analytes Detected in Subsurface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Soil-to-Groundwater SSL[a] (DAF=10)	BEQ Subsurface Soil BRC[b]
Gamma-chlordane	G643SB013	0.0046	=	5	
	G643SB023	0.0062	J		
p,p'-DDD	G643SB013	0.0068	=	8	
p,p'-DDE	G643SB023	0.012	=		
	G643SB013	0.2	=		
p,p'-DDT	G643SB013	0.032	=	16	
	G643SB023	0.018	=		
Acenaphthylene	G643SB023	0.058	=	NL	
Anthracene	G643SB021	0.022	J	6,000	
	G643SB023	0.16	=		
Benzo(a)Anthracene	G643SB023	0.13	=	1	0.627
	G643SB021	0.06	J		
	G643SB016	0.067	=		
	G643SB025	0.06	J		
	G643SB015	0.024	J		
	G643SB018	0.042	=		
Benzo(a)Pyrene	G643SB021	0.052	J	4	0.623
	G643SB027	0.028	J		
	G643SB026	0.033	J		
	G643SB023	0.26	=		
Benzo(b)Fluoranthene	G643SB021	0.043	J	2.5	0.631
	G643SB026	0.042	J		
	G643SB018	0.049	=		
	G643SB016	0.059	J		
	G643SB015	0.062	J		
	G643SB025	0.046	J		
	G643SB023	0.43	=		
Benzo(g,h,i)Perylene	G643SB025	0.034	J		
	G643SB026	0.062	J		
	G643SB023	0.26	=		
	G643SB021	0.061	J		
Benzo(k)Fluoranthene	G643SB021	0.041	J	24.5	0.609
	G643SB025	0.035	J		
	G643SB016	0.068	J		
	G643SB018	0.053	=		

TABLE 4-4
Organic Analytes Detected in Subsurface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Soil-to-Groundwater SSL[a] (DAF=10)	BEQ Subsurface Soil BRC[b]
Benzo(k)Fluoranthene	G643SB023	0.32	=	24.5	0.609
Benzoic acid	G643SB021	0.04	J	200	
	G643SB027	0.74	=		
	G643SB025	0.11	J		
	G643SB026	0.056	J		
Chrysene	G643SB026	0.063	J	80	0.616
	G643SB015	0.03	J		
	G643SB016	0.074	=		
	G643SB017	0.025	J		
	G643SB025	0.057	J		
	G643SB021	0.07	J		
	G643SB023	0.25	=		
	G643SB018	0.051	=		
Di-n-butyl Phthalate	G643SB025	0.099	J	1,150	
	G643SB027	0.028	J		
	G643SB021	0.031	J		
Dibenz(a,h)anthracene	G643SB023	0.093	=	1	0.586
Fluoranthene	G643SB026	0.035	J	2,150	
	G643SB025	0.091	J		
	G643SB015	0.043	=		
	G643SB016	0.092	=		
	G643SB021	0.091	J		
	G643SB018	0.089	=		
Indeno(1,2,3-c,d)pyrene	G643SB021	0.038	J	7	0.592
	G643SB025	0.029	J		
	G643SB026	0.037	J		
	G643SB023	0.23	=		
Phenanthrene	G643SB021	0.061	J		
	G643SB018	0.037	J		
	G643SB023	0.031	J		
	G643SB016	0.051	=		
	G643SB025	0.079	J		
	G643SB015	0.022	J		
Pyrene	G643SB021	0.12	J	2,100	
	G643SB015	0.06	=		
	G643SB023	0.33	=		

TABLE 4-4
Organic Analytes Detected in Subsurface Soil - Additional Investigations
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (mg/kg)	Qualifier	Soil-to-Groundwater SSL[a] (DAF=10)	BEQ Subsurface Soil BRC[b]
Pyrene	G643SB017	0.1	=	2,100	
	G643SB018	0.085	=		
	G643SB016	0.14	=		
	G643SB026	0.16	J		
	G643SB025	0.071	J		
Total Organic Carbon	G643SB019	0.8	J		
	G643SB018	1.5	J		
	G643SB023	1	J		
	G643SB020	0.8	J		
	G643SB022	0.6	J		
	G643SB024	0.4	J		
	G643SB016	0.7	J		
	G643SB015	1.7	J		
	G643SB017	0.9	J		
	G643SB013	17,200	=		

[a] Generic soil-to-groundwater SSLs (DAF = 10) are from EPA Soil Screening Guidance: Technical Background Document (Table A-1), EPA/540/R-95/128, May 1996, unless otherwise noted.

[b] BEQ subsurface soil background (grid-based) reference screening value is 2x the adjusted mean as reported in the *Background PAHs Study Report – Technical Information for Development of Background BEQ Values*, February 2001, CH2M-Jones.

J Chemical detected at concentration below the method detection limit; concentration not known
= Chemical detected at the concentration shown
BEQ Benzo(a)pyrene equivalent
DAF Dilution attenuation factor
NA Not applicable/not available/not analyzed
NL Not listed
PAH Polycylic aromatic hydrocarbon
PEST Pesticide
RBC Risk-based concentration
SSL Soil screening level
SVOC Semivolatile organic compound
THI Target hazard index
VOC Volatile organic compound

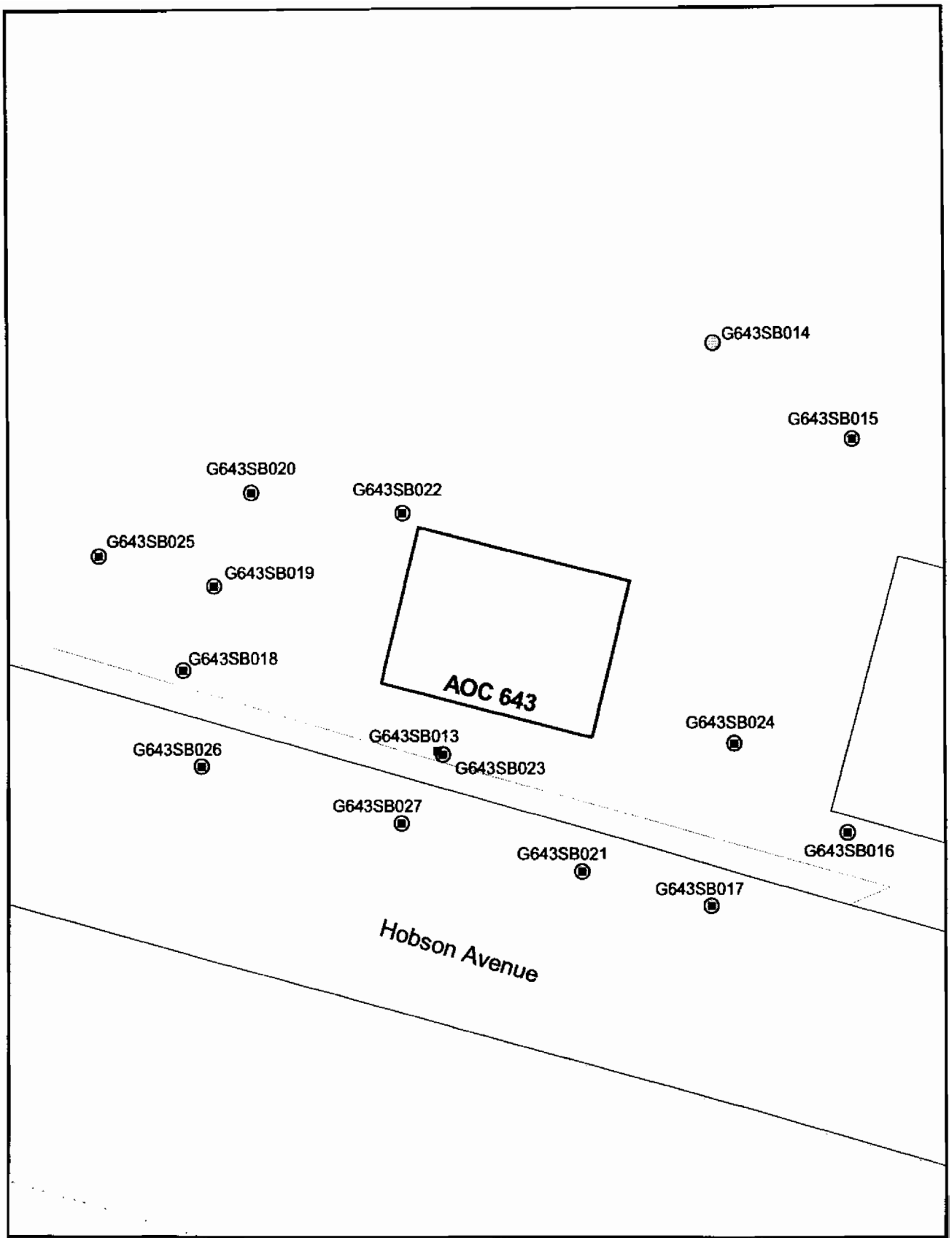
BEQ Calculation Procedure:

BEQ = Sum {TP x TEF}

TP Target Parameter
TEF Toxicity equivalency factor, relative to benzo(a)pyrene

Target Parameter	TEF
Benzo(a)anthracene	0.1
Benzo(b)fluoranthene	0.1
Benzo(k)fluoranthene	0.01
Benzo(a)pyrene	1.0
Chrysene	0.001
Dibenz(a,h)anthracene	1.0
Indeno(1,2,3-c,d)pyrene	0.1

If there was no detection of the TP, half the TP detection limit was used.
If there was no detection of all seven TPs, then BEQ = nondetect.



Post RFI Subsurface Soil Samples
Post RFI Surface Soil Samples
Roads
Pavement
Sidewalk
Buildings
AOC Boundary

N

30 0 30 Feet

Figure 4-1
Additional Soil Sample Locations
AOC 643, Zone G
Charleston Naval Complex

CH2MHILL

File Path: Unsaved Project, Date: 21 Nov 2001 15:08, User: ASWINFOR, Figure 5-1 Post RFI Samples - Figure 4-1 Additional Soil Sample Locations

Section 5.0

A discussion of each of these chemicals is provided below.

Arsenic

Arsenic was identified as a COC in the *Zone G RFI Report, Revision 0* based on a single exceedance of the Zone G BRC (17.2 mg/kg) in a duplicate sample G643CB00901 (52.7 mg/kg). The IM conducted at the site targeted removal of arsenic in site soil at concentrations above the BRC. The IM confirmatory sampling analytical results support the conclusion that the IM removed the arsenic-containing soil above the BRC at AOC 643. Therefore, arsenic is not considered a COC in surface soil at AOC 643.

Chromium

The *Zone G RFI Report, Revision 0* identified chromium as a COC in surface soil at AOC 643, based on a single exceedance of the BRC (42.8 mg/kg). The sample in question was G643CB01001 (52.3 mg/kg), which was a duplicate sample for the sample collected at G643SB01001. The IM results indicate that surface soils at this location were excavated (see Figure 3-1), and remaining soils on site do not exceed the Zone G chromium background concentration range. Therefore, chromium is not retained as a COC in surface soil at AOC 643.

Vanadium

Vanadium was detected in four surface soil samples (G643SB00401: 141 mg/kg; G643SB01601: 185 mg/kg; G643SB01901: 74.4 mg/kg; and G643SB02301: 112 mg/kg) above its RBC (55 mg/kg, HI=0.1) and Zone G BRC (60.9 mg/kg). To provide a conservative screening, RBCs were reduced by one order of magnitude (HI=0.1) in the *Zone G RFI Report, Revision 0*. The RBC (HI=1.0) for vanadium is 550 mg/kg in the EPA Region III RBC Table (October 2000). No vanadium concentration in surface soil exceeded the RBC based on a HI of 1. Therefore, since vanadium is the only non-carcinogenic COPC identified above the screening level RBC for surface soil at an HI =0.1, and it is well below an RBC based on an HI=1.0, vanadium is not considered a COPC in surface soil at AOC 643.

DDE

The pesticide DDE was detected above its RBC (1.9 mg/kg) in one surface soil sample (G643SB01401: 4.3 mg/kg) collected by EnSafe. This location was re-sampled by CH2M-Jones in September 2001 to evaluate the need for remediation. The analytical results for this sample (G643SB02801) indicated that DDD (0.136 mg/kg), DDE (0.949 mg/kg), and DDT (0.291 U mg/kg) were all present at concentrations below their respective RBCs (DDD: 2.7 mg/kg; DDE: 1.9 mg/kg; and DDT: 1.9 mg/kg). Based on this information, pesticides do

not appear to be present at the site at significant levels; therefore, DDE is not considered a COC in surface soil at AOC 643.

Aroclor-1260

The PCB Aroclor-1260 was detected at two RFI sampling locations (G643SB007: 1.7 mg/kg and G643SB010: 1.17 mg/kg) at concentrations that exceeded its RBC (0.32 mg/kg). The reported concentrations at these locations also exceeded the cleanup level of 1 mg/kg established for PCBs (40 CFR 761.125[c][4][v]). The goal of the IM performed at AOC 643 was the removal of arsenic- and PCB-impacted soil at the site at concentrations above the target cleanup levels (arsenic: 17.2 mg/kg, PCBs: 1 mg/kg). Both of these sample locations were excavated during the IM. No other sample collected during, or after, the RFI reported PCB concentrations above its RBC. Based on this information, Aroclor-1260 is not considered a COC at AOC 643.

BEQs

BEQs were identified as COPCs as a result of exceedances in three of the surface soil samples, with concentrations exceeding the screening level of 1,304 µg/kg (CH2M-Jones, 2001a). Sample G643SB00501, which was collected during the RFI, reported a BEQ value of 1,446.8 µg/kg. Two samples collected after the RFI (G643SB01501: 1,767.2 µg/kg and G643SB02501: 21,074 µg/kg) also reported PAH concentrations that resulted in BEQ values that exceeded the screening level.

The location which had the highest BEQ concentration (G643SB025)was re-sampled by CH2M-Jones in September 2001. The new calculated BEQ value at this location was 366.4 µg/kg, which is below the screening level of 1,304 µg/kg. Two of the 24 surface soil (G643SB005 and G643SB015) samples that were analyzed for BEQs remain at the site where the BEQ value exceeds the screening level for BEQs in surface soil. All the samples are collected from partially asphalt-paved areas of heavy traffic around the site, near the roadways which are known sources of PAHs containing BEQs. The two samples with higher BEQ concentrations identified above are far removed from each other, indicating that their presence is not likely from past site releases, and are more likely from other non-point sources (asphalt and vehicular traffic).

To calculate an exposure concentration for BEQs, an Exposure Point Concentration (EPC) was estimated for BEQs as the lognormal 95-percent Upper Confidence Limit (UCL_{95}) of the mean (the data fit a lognormal distribution, $R^2 = 0.93$). The BEQ data from all sampling events were used in the calculation with the exception of sample G643SB025 (21,074 µg/kg), which was replaced with the results from G643SB02901 (366.4 µg/kg). The calculated UCL_{95}

for BEQs at AOC 643 was 675.5 µg/kg, which is below the screening level of 1,304 µg/kg. Based on this information, BEQs are not considered a COC in surface soil at AOC 643.

5.1.2 COCs in Subsurface Soil

The original RFI did not identify any COCs in subsurface soil at AOC 643. As discussed in Section 4.0 of this RFI Report Addendum, COPCs were identified in subsurface soil during subsequent investigations. The COPCs in subsurface soil at AOC 643 are listed below, followed by a discussion of each chemical.

- Cobalt
- Tin

Cobalt and tin were identified as COPCs as a result of a single subsurface exceedance of the Zone G background range of concentrations. Generic SSLs were not available for these constituents.

Cobalt

Seventeen subsurface samples were analyzed for metals at AOC 643. Cobalt was detected above the Zone G background range maximum concentration (14.7 mg/kg) in one sample, G643SB02102 (20.4 mg/kg). This sample location was away from the AOC, outside of the fence, within the roadway of Hobson Avenue. The single detection of cobalt marginally above the Zone G background range of concentrations is not considered to represent a significant threat to shallow groundwater above background conditions. Therefore, cobalt is not considered a COC at AOC 643.

Tin

Tin was detected above its Zone G background range maximum concentration (2.9 mg/kg) in one sample, G643SB01302 (16.6 J mg/kg). Sample G643SB01302 was also analyzed for SPLP for metals. Analytical results from the SPLP samples are presented in Table 5-1. Tin was not detected (29.5 U micrograms per liter [µg/L]) in the leachate in the SPLP sample. Because tin was not detected in the leachate, it is not considered to be a threat to shallow groundwater at the site. Based on this information, tin is not considered a COC at AOC 643.

5.1.3 COCs in Groundwater

Groundwater samples were not collected at AOC 643. However, as discussed above, the soil data from AOC 643 do not indicate that site activities have impacted site groundwater.

5.2 Summary

Based on the evaluation of data collected as part of the RFI, as well as evaluation of the additional data collected, no COCs were identified at AOC 643. Thus, no human health or environmental impacts are noted from past operations at AOC 643.

TABLE 5-1
Results of SPLP Analysis
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (µg/L)	Qualifier	Sample ID	Date Collected
		Surface Soil			
Aluminum, SPLP	G643SB024	2,050	=	643SB024S1	17-Dec-99
Arsenic,SPLP	G643SB024	7	J	643SB024S1	17-Dec-99
Barium, SPLP	G643SB024	519	=	643SB024S1	17-Dec-99
Beryllium, SPLP	G643SB024	0.9	J	643SB024S1	17-Dec-99
Calcium, SPLP	G643SB024	12,400	=	643SB024S1	17-Dec-99
Copper, SPLP	G643SB024	3.8	J	643SB024S1	17-Dec-99
Iron, SPLP	G643SB024	1,820	=	643SB024S1	17-Dec-99
Lead, SPLP	G643SB024	6.6	J	643SB024S1	17-Dec-99
Magnesium, SPLP	G643SB024	613	J	643SB024S1	17-Dec-99
Manganese, SPLP	G643SB024	6.2	J	643SB024S1	17-Dec-99
Nickel, SPLP	G643SB024	2.8	J	643SB024S1	17-Dec-99
Potassium, SPLP	G643SB024	156	J	643SB024S1	17-Dec-99
Sodium, SPLP	G643SB024	4,460	J	643SB024S1	17-Dec-99
Vanadium, SPLP	G643SB024	154	=	643SB024S1	17-Dec-99
Zinc, SPLP	G643SB024	33.1	=	643SB024S1	17-Dec-99
		Subsurface Soil			
Aluminum, SPLP	G643SB024	2,190	=	643SB024S2	17-Dec-99
	G643SB013	216	=	643SB01302	29-Jul-99
Arsenic,SPLP	G643SB024	3.9	J	643SB024S2	17-Dec-99
Barium, SPLP	G643SB024	302	=	643SB024S2	17-Dec-99
	G643SB013	8	J	643SB01302	29-Jul-99
Beryllium, SPLP	G643SB024	0.9	J	643SB024S2	17-Dec-99
Calcium, SPLP	G643SB024	11,600	=	643SB024S2	17-Dec-99
	G643SB013	2,800	=	643SB01302	29-Jul-99
Copper, SPLP	G643SB013	5.1	J	643SB01302	29-Jul-99
	G643SB024	1.1	J	643SB024S2	17-Dec-99
Iron, SPLP	G643SB013	462	=	643SB01302	29-Jul-99
	G643SB024	2,360	=	643SB024S2	17-Dec-99
Lead, SPLP	G643SB013	4.5	J	643SB01302	29-Jul-99
Magnesium, SPLP	G643SB024	593	J	643SB024S2	17-Dec-99
	G643SB013	325	=	643SB01302	29-Jul-99

TABLE 5-1
Results of SPLP Analysis
RFI Report Addendum, AOC 643, Zone G, Charleston Naval Complex

Parameter	Location	Concentration (µg/L)	Qualifier	Sample ID	Date Collected
Manganese, SPLP	G643SB013	4.3	J	643SB01302	29-Jul-99
	G643SB024	8.4	J	643SB024S2	17-Dec-99
Mercury, SPLP	G643SB013	1.2	J	643SB01302	29-Jul-99
Nickel, SPLP	G643SB024	1.9	J	643SB024S2	17-Dec-99
	G643SB013	1.0	J	643SB01302	29-Jul-99
Potassium, SPLP	G643SB024	174	J	643SB024S2	17-Dec-99
Sodium, SPLP	G643SB024	4,320	J	643SB024S2	17-Dec-99
	G643SB013	8,330	=	643SB01302	29-Jul-99
Vanadium, SPLP	G643SB024	8.7	J	643SB024S2	17-Dec-99
	G643SB013	2.2	J	643SB01302	29-Jul-99
Zinc, SPLP	G643SB024	22.2	=	643SB024S2	17-Dec-99

µg/L Micrograms per liter
= Chemical detected at the concentration shown.
J Chemical detected at concentration below the method detection limit, concentration not known.
SPLP Synthetic precipitation leaching procedure

6.0 Summary of Information Related to Site Closeout Issues

6.1 RFI Status

The *Zone G RFI Report, Revision 0* (EnSafe, 1998a) addressed SWMUs/AOCs within the CNC, including AOC 643. The subsequent *Zone G RFI Report Work Plan Addendum* (EnSafe, 2000) recommended collecting additional samples to delineate BEQs, PCBs, and metals. This additional sampling has been completed. CH2M-Jones also collected two additional surface soil samples at AOC 643 to confirm the presence or absence of BEQs or DDE at two locations.

No other samples are proposed, or considered necessary, at AOC 643.

In accordance with the RFI completion process, if a determination of No Further Investigation (NFI) is made, then a site may proceed to either NFA status or to a corrective measures study (CMS). Because there were no COCs related to this site, CH2M-Jones recommends this site for NFA.

6.2 Presence of Inorganics in Groundwater

For the purpose of site closeout documentation, the inorganics in groundwater issue refers to the occasional or intermittent detection of several metals (primarily arsenic, thallium, and antimony) in groundwater at concentrations above the applicable maximum contaminant level (MCL), preceded or followed by detections of these same metals below the MCL or below the practicable quantitation limit.

Groundwater samples were not collected at AOC 643, however analytical results from soil samples indicate that there are no inorganic constituents present in soil that could pose a threat to local groundwater. Table 10.10.8 of the *Zone G RFI, Revision 0* presents a comparison of the maximum detected concentrations of individual compounds to the appropriate screening criteria. The table is included in Appendix A. Arsenic is the only inorganic compound that was reported at a concentration that exceeded its SSL (29 mg/kg, DAF=20). It was reported in the *Zone G RFI Report, Revision 0* that arsenic was detected above its SSL in a single surface soil sample (G643SB00901: 52.7 mg/kg) collected at AOC 643, that has since been removed as part of the IM performed at AOC 643. No subsurface

samples reported arsenic above its SSL, indicating that existing surface soil concentrations of arsenic are adequately attenuated with depth and are therefore protective of shallow groundwater at AOC 643. Based on this information the presence of inorganics in groundwater does not warrant further investigation at AOC 643.

6.3 Potential Linkage to SWMU 37, Investigated Sanitary Sewers at the CNC

The sanitary sewer investigation was designed to include segments of the sewer where releases of contamination were known or considered likely to have occurred. No investigations related to SWMU 37 were conducted at AOC 643. No known or suspected linkage between SWMU 37 and AOC 643 exists. Therefore, further evaluation of this issue is not warranted.

6.4 Potential Linkage to AOC 699, Investigated Storm Sewers at the CNC

Investigated segments of the storm sewer were identified in the *Zone L RFI Report, Revision 0* (EnSafe, 1998b). No investigated segments of the storm sewer were identified in Zone G. The nearest investigated segments of the storm sewer is over 2,000 ft to the northwest of AOC 643, in Zones E and F.

There are no data or information to suggest that AOC 643 has impacted the storm sewer system that is over 2,000 ft away. Therefore, further investigation of a linkage between the storm sewer system and AOC 643 is not warranted.

6.5 Potential Linkage to AOC 504, Investigated Railroad Lines at the CNC

Investigated railroad lines were identified in the *Zone L RFI Report, Revision 0*. The nearest investigated railroad line to AOC 643 is over 2,000 ft to the northwest of AOC 643. There is no known linkage between AOC 643 and the investigated railroad lines of AOC 504. Therefore, further evaluation of this issue is not warranted.

6.6 Potential Migration Pathways to Surface Water Bodies at the CNC

Two potential migration pathways from the site to surface water are overland flow via stormwater runoff, and subsurface flow via groundwater. There were no COCs identified in surface soil at AOC 643; therefore, further evaluation of a potential pathway for contaminant migration via stormwater runoff is not warranted.

There were no groundwater samples collected at AOC 643. Soil data did not indicate that site groundwater was impacted by site activities, therefore COPCs were not identified in groundwater at AOC 643. As a result, there is no contaminated groundwater plume to migrate to a surface water body. Therefore, further evaluation of potential migration of contaminated groundwater to a surface water body is not warranted.

6.7 Potential Contamination in Oil/Water Separators (OWSs)

The issue of potential contamination of OWSs refers to the possible presence of an OWS that has not yet been investigated at a SWMU or AOC as part of the RCRA or UST process.

No OWSs are present at AOC 643. Therefore, additional evaluation of this issue at AOC 643 is not warranted.

6.7 Land Use Control Management Plan

Evaluation of data collected during, and after the RFI, did not identify any COCs in site soil at AOC 643. Therefore, land use restrictions are not needed.

7.0 Recommendations

AOC 643 is an electric substation at Building 125 on the north side of Hobson Avenue near the entrance to Pier N. Transformers, inactive DC generators, switches, and circuit breakers were stored in a wood shed adjacent to Building 125.

A small spill of PCB-containing oil was effectively remediated by the removal of contaminated soil. Based on evaluation of data collected during the RFI, other COCs were not identified in environmental media at AOC 643. Based on this information, further investigation or corrective action is not considered necessary at AOC 643 in order to protect human health and the environment. Therefore CH2M-Jones recommends that the status of AOC 643 be changed to NFA.

Once the BCT concurs that NFA is appropriate for the site, a Statement of Basis will be prepared that will be made available for public comment in accordance with SCDHEC policy. This will allow for public participation in the final remedy selection.

8.0 References

CH2M-Jones. Technical Memorandum – *Background PAHs Study Report – Technical Information for Development of Background BEQ Values*. Revision 0. February 2001a.

CH2M-Jones. *Sampling Plan – AOC 643, Zone G, U.S. Navy Southern Division, Naval Facilities Engineering Command*. July 2001b.

CH2M-Jones. *Charleston Naval Complex Project Team Notebook and Instructions*. Revision 1. October 2001c.

EEG. *Completion Report – Interim Measure for AOC 643, Naval Base Charleston, Charleston SC*. October 12, 1999.

EnSafe/Allen & Hoshall. *Final RCRA Facility Assessment Naval Base Charleston Volume II*. June 6, 1995.

EnSafe Inc. *Zone G RCRA Facility Investigation Report*. Revision 0. February 20, 1998a.

EnSafe Inc. *Zone L RCRA Facility Investigation Report*. Revision 0. December 18, 1998b.

EnSafe Inc. *Zone G RCRA Facility Investigation Report Work Plan Addendum*. January 17, 2000.

U.S. Environmental Protection Agency. *Soil Screening Guidance: Technical Background Document*. May 1996.

U.S. Environmental Protection Agency. EPA Region III RBC Table. October 2000.

Table 10.10.1
Zone G
AOC 643 Soil Samples

Boring Location	Sample Identifier	Sample Interval	Date Collected	Analyses	Remarks
643SB001	643SB00101	Upper	9/24/96	Note 1/metals	
	643SB00102	Lower			
643SB002	643SB00201	Upper	9/25/96	Note 1	
	643SB00202	Lower			
643SB003	643SB00301	Upper	10/02/96	Note 1	
	643SB00302	Lower			
643SB004	643SB00401	Upper	9/24/96	Note 1/metals	
	643SB00402	Lower			
643SB005	643SB00501	Upper	9/25/96	Note 1	
	643SB00502	Lower			
643SB006	643SB00601	Upper	9/25/96	Note 1	
	643SB00602	Lower			
643SB007	643SB00701	Upper	9/24/96	Note 1/metals	
	643SB00702	Lower			
643SB008	643SB00801	Upper	1/10/97	Note 2	Second-round sample
	643SB00802	Lower			
643SB009	643SB00901	Upper	1/10/97	Note 2	Second-round sample
	643CB00901*			Note 3	*Duplicate sample
	643SB00902	Lower		Note 2	
643SB010	643SB01001	Upper	1/10/97	Note 2	Second-round sample
	643CB01001*	Lower		Note 3	*Duplicate sample
	643SB01002			Note 2	
642SB011	643SB01101	Upper	1/10/97	Note 2	Second-round sample
	643SB01102	Lower			
643SB012	643SB01201	Upper	1/10/97	Note 2	Second-round sample
	643SB01202	Lower			

Notes:
1 = SW-846 (pesticides/PCBs, SVOCs, VOCs) at DQO Level III
2 = SW-846 (pesticides/PCBs, SVOCs) at DQO Level III
3 = Appendix IX suite: SW-846 (metals, pesticides/PCBs, herbicides, dioxins, SVOCs, VOCs); cyanide; hex-chrome at DQO Level IV
* = Duplicate sample

Table 10.10.2
Zone G
AOC 643
Organic Compound Analytical Results for Soil

Parameters	Sample Interval	Frequency of Detection	Range of Detections (µg/kg)	Mean of Detections (µg/kg)	Reference Conc.* (µg/kg)	Number of Samples Exceeding Reference
Volatile Organic Compounds (Upper Interval - 9 Samples plus 2 Duplicate Samples/Lower Interval - 7 Samples) (µg/kg)						
Benzene	Upper	1/9	3.00	3.00	22000	0
	Lower	0/7	ND	ND	30	0
Carbon disulfide	Upper	0/9	ND	ND	780000	0
	Lower	1/7	3.00	3.00	32000	0
Trichloroethene	Upper	1/9	2.00	2.00	58000	0
	Lower	0/7	ND	ND	60	0
Xylene (Total)	Upper	0/9	ND	ND	16000000	0
	Lower	1/7	1.000	1.000	148000	0
Semivolatile Organic Compounds (Upper Interval - 12 Samples plus 2 Duplicate Samples/Lower Interval - 12 Samples) (µg/kg)						
BEQs[1]	Upper	7/12	4.50 - 1446.77	346	88	4
	Lower	0/0	NA	NA	NA	NA
Benzo(a)anthracene	Upper	5/12	81.0 - 1000	326	880	1
	Lower	3/12	91.0 - 180	127	2000	0
Benzo(b)fluoranthene	Upper	7/12	45.0 - 1000	284	880	1
	Lower	4/12	40.0 - 310	168	5000	0
Benzo(k)fluoranthene	Upper	5/12	43.0 - 580	225	8800	0
	Lower	2/12	46.0 - 50.0	48.0	49000	0
Benzo(a)pyrene	Upper	5/12	46.0 - 900	300	88	4
	Lower	2/12	91.0 - 150	121	8000	2

Table 10.10.2
Zone G
AOC 643
Organic Compound Analytical Results for Soil

Parameters	Sample Interval	Frequency of Detection	Range of Detections (µg/kg)	Mean of Detections (µg/kg)	Reference Conc.* (µg/kg)	Number of Samples Exceeding Reference
Chrysene	Upper	5/12	100 - 970	362	88000	0
	Lower	3/12	95.0 - 200	138	160000	0
Dibenz(a,h)anthracene	Upper	3/12	69.0 - 290	153	88	2
	Lower	1/12	70.0	70.0	2000	0
Indeno(1,2,3-cd)pyrene	Upper	5/12	38.0 - 500	174	880	0
	Lower	2/12	60.0 - 140	100	14000	0
Acenaphthene	Upper	1/12	86.0	86.0	470000	0
	Lower	0/12	ND	ND	570000	0
Anthracene	Upper	3/12	48.0 - 200	107	2300000	0
	Lower	1/12	50.0	50.0	12000000	0
Benzo(g,h,i)perylene	Upper	5/12	57.0 - 530	197	230000	0
	Lower	3/12	59.0 - 150	91.3	4.66E08	0
Di-n-butylphthalate	Upper	1/12	40.0	40.0	780000	0
	Lower	0/12	ND	ND	2300000	0
Di-n-octylphthalate	Upper	1/12	69.0	69.0	160000	0
	Lower	0/12	ND	ND	10000000	0
Fluoranthene	Upper	6/12	41.0 - 1900	547	310000	0
	Lower	4/12	44.0 - 390	186	4300000	0
Fluorene	Upper	1/12	66.0	66.0	310000	0
	Lower	0/12	ND	ND	560000	0

Table 10.10.2
Zone G
AOC 643
Organic Compound Analytical Results for Soil

Parameters	Sample Interval	Frequency of Detection	Range of Detections (µg/kg)	Mean of Detections (µg/kg)	Reference Conc.* (µg/kg)	Number of Samples Exceeding Reference
Phenanthrene	Upper	5/12	110 - 970	334	230000	0
	Lower	3/12	49.0 - 260	132	1380000	0
Pyrene	Upper	5/12	150 - 1300	490	230000	0
	Lower	3/12	120 - 370	207	4200000	0
Pesticides and PCBs (Upper Interval - 12 Samples plus 2 Duplicate Sample/Lower Interval - 12 Samples) (µg/kg)						
alpha-Chlordane	Upper	4/12	1.70 - 13.0	6.80	1800	0
	Lower	1/12	3.20	3.20	10000	0
gamma-Chlordane	Upper	6/12	5.60 - 24.0	14.0	1800	0
	Lower	0/12	ND	ND	10000	0
4,4'DDD	Upper	2/12	4.00 - 24.0	14.0	2700	0
	Lower	0/12	ND	ND	16000	0
4,4'-DDE	Upper	12/12	3.00 - 380	79.4	1900	0
	Lower	5/12	3.30 - 45.0	14.1	54000	0
4,4'-DDT	Upper	9/12	6.80 - 134	58.3	1900	0
	Lower	3/12	11.0 - 28.0	21.3	32000	0
Dieldrin	Upper	0/12	ND	ND	40	0
	Lower	1/12	22.0	22.0	4	~~0~~ 1
Endrin	Upper	2/12	5.70 - 8.50	7.10	2300	0
	Lower	0/12	ND	ND	1000	0
Endrin aldehyde	Upper	1/12	120	120	2300	0
	Lower	1/12	3.80	3.80	1000	0

Table 10.10.2
Zone G
AOC 643
Organic Compound Analytical Results for Soil

Parameters	Sample Interval	Frequency of Detection	Range of Detections (µg/kg)	Mean of Detections (µg/kg)	Reference Conc.* (µg/kg)	Number of Samples Exceeding Reference
Aroclor-1260	Upper	6/12	71.0 - 1700	555	320	2
	Lower	3/12	7.00 - 420	199	1000	0
Dioxins (Upper Interval -2 Duplicate Samples) (ng/kg)						
Dioxin(2,3,7,8-TCDD TEQ)[1]	Upper	2/2	0.2886 - 5.4849	2.89	1000	0
	Lower	0/0	NA	NA	1900	0

Notes:

1 = Calculated from methods described in USEPA Interim *Supplemental Guidance to RAGS: Human Health Risk Assessment*, Bulletin 2 (USEPA, 1995b)

* = Residential RBCs (THQ=0.1) were used as a reference concentration for upper interval samples. Generic soil-to-groundwater SSLs (DAF=20) from the *Soil Screening Guidance: Technical Background Document* (USEPA, 1996b) were used as a reference concentration for lower interval samples

ND = Not detected

NL = Not listed

NA = Not applicable

µg/kg = Micrograms per kilogram

ng/kg = Nanograms per kilogram

Table 10.10.3
Zone G
AOC 643
Inorganic Analytical Results for Soil

Parameters	Sample Interval	Frequency of Detection	Range of Detections (mg/kg)	Mean of Detections (mg/kg)	Reference Conc.* (mg/kg)	Number of Samples Exceeding Reference
Inorganics (Upper Interval - 5 Samples plus 2 Duplicate Samples/Lower Interval - 3 Samples) (mg/kg)						
Aluminum (Al)	Upper	5/5	3110 - 6290	4400	7800	0
	Lower	3/3	2160 - 5740	3760	1000000	0
Antimony (Sb)	Upper	2/5	0.86 - 1.00	0.930	3.10	0
	Lower	0/3	ND	ND	5	0
Arsenic (As)	Upper	5/5	1.20 - 52.7	13.8	0.43	5
	Lower	3/3	2.40 - 8.10	5.20	29	0
Barium (Ba)	Upper	5/5	8.20 - 130	34.9	550	0
	Lower	3/3	5.60 - 10.8	8.50	1600	0
Beryllium (Be)	Upper	4/5	0.20 - 0.37	0.313	0.15	4
	Lower	3/3	0.33 - 0.48	0.400	63	0
Cadmium (Cd)	Upper	5/5	0.050 - 0.69	0.322	3.9	0
	Lower	2/3	0.25 - 0.28	0.265	8	0
Calcium (Ca)	Upper	5/5	651 - 106000	35300	NL	NA
	Lower	3/3	4960 - 97200	36600	NL	NA
Chromium (Cr)	Upper	5/5	4.70 - 52.3	18.5	39.0	1
	Lower	3/3	6.10 - 33.7	17.0	1000000	0
Cobalt (Co)	Upper	5/5	0.48 - 24.8	5.84	470	0
	Lower	3/3	0.73 - 1.60	1.28	2000	0

Table 10.10.3
Zone G
AOC 643
Inorganic Analytical Results for Soil

Parameters	Sample Interval	Frequency of Detection	Range of Detections (mg/kg)	Mean of Detections (mg/kg)	Reference Conc.* (mg/kg)	Number of Samples Exceeding Reference
Copper (Cu)	Upper	4/5	5.50 - 36.8	21.3	27000	0
	Lower	2/3	7.40 - 9.80	8.60	920	0
Cyanide (CN)	Upper	1/1	0.120	0.120	160	0
	Lower	0/3	ND	ND	40	0
Iron (Fe)	Upper	5/5	3400 - 6290	4740	2300	5
	Lower	3/3	2770 - 7150	5420	NL	NA
Lead (Pb)	Upper	5/5	4.70 - 154	53.6	400	0
	Lower	3/3	2.60 - 27.5	11.1	400	0
Magnesium (Mg)	Upper	5/5	162 - 2860	1130	NL	NA
	Lower	3/3	467 - 3980	1790	NL	NA
Manganese (Mn)	Upper	5/5	7.40 - 184	64.9	180	1
	Lower	3/3	18.0 - 103	57.6	1100	0
Mercury (Hg)	Upper	2/5	0.090 - 0.14	0.115	2.30	0
	Lower	0/3	ND	ND	2.1	0
Nickel (Ni)	Upper	3/5	3.60 - 21.5	14.0	160	0
	Lower	0/3	ND	ND	130	0
Potassium (K)	Upper	4/5	260 - 761	412	NL	NA
	Lower	3/3	288 - 827	504	NL	NA
Selenium (Se)	Upper	3/5	0.47 - 0.86	0.620	39.0	0
	Lower	1/3	1.20	1.20	5	0

Table 10.10.3
Zone G
AOC 643
Inorganic Analytical Results for Soil

Parameters	Sample Interval	Frequency of Detection	Range of Detections (mg/kg)	Mean of Detections (mg/kg)	Reference Conc.* (mg/kg)	Number of Samples Exceeding Reference
Silver (Ag)	Upper	1/5	0.65	0.650	39	0
	Lower	0/3	ND	ND	34	0
Sodium (Na)	Upper	2/5	266 - 623	445	NL	NA
	Lower	0/3	ND	ND	NL	NA
Tin (Sn)	Upper	2/5	0.92 - 2.4	1.66	4700	0
	Lower	0/3	ND	ND	11000	0
Vanadium (V)	Upper	5/5	7.90 - 141	44.4	55.0	1
	Lower	3/3	6.10 - 31.3	19.7	6000	0
Zinc (Zn)	Upper	2/5	24.1 - 155	89.6	2300	0
	Lower	0/3	ND	ND	12000	0

Notes:

* = Residential RBCs (THQ=0.1) were used as a reference concentration for upper interval samples. Generic soil-to-groundwater SSLs (DAF=20) from the *Soil Screening Guidance: Technical Background Document* (USEPA, 1996b) were used as a reference concentration for lower interval samples

ND = Not detected

NL = Not listed

NA = Not applicable

mg/kg = Milligrams per kilogram

Table 10.10.4
Zone G
AOC 643
Analytes Detected in Surface and Subsurface Soil

Parameters	Location	Surface Conc.	Residential RBC* (THQ=0.1)	Surface Background	Subsurface Conc.	Soil to Groundwater SSL* (DAF=20)	Subsurface Background
Volatile Organic Compounds (µg/kg)							
Benzene	643SB002	3	22000	NA	ND	30	NA
Carbon disulfide	643SB005	ND	780000	NA	3	32000	NA
Trichloroethene	643SB002	2	58000	NA	ND	60	NA
Xylenes	643SB004	ND	16000000	NA	1	148000	NA
Semivolatile Organic Compounds (µg/kg)							
BEQs[1]	643SB002	112.70	88	NA	NA	NL	NA
	643SB003	56.63			NA		
	643SB004	37.18			NA		
	643SB005	1446.80			NA		
	643SB009	0.45			NA		
	643SB010	442.03			NA		
	643SB012	314.93			NA		
Benzo(a)anthracene	643SB002	81	880	NA	ND	2000	NA
	643SB003	ND			110		
	643SB004	130			180		
	643SB005	1000			91		
	643SB010	240			ND		
	643SB012	180			ND		

Table 10.10.4
Zone G
AOC 643
Analytes Detected in Surface and Subsurface Soil

Parameters	Location	Surface Conc.	Residential RBC* (THQ=0.1)	Surface Background	Subsurface Conc.	Soil to Groundwater SSL* (DAF=20)	Subsurface Background
Benzo(b)fluoranthene	643SB002	71	880	NA	40	5000	NA
	643SB003	60			310		
	643SB004	240			210		
	643SB005	1000			110		
	643SB009	45			ND		
	643SB010	330			ND		
	643SB012	240			ND		
Benzo(k)fluoranthene	643SB002	60	8800	NA	ND	49000	NA
	643SB003	43			ND		
	643SB005	580			46		
	643SB006	ND			50		
	643SB010	270			ND		
	643SB012	170			ND		
Benzo(a)pyrene	643SB002	93	88	NA	ND	8000	NA
	643SB003	46			150		
	643SB005	900			91		
	643SB010	270			ND		
	643SB012	190			ND		
Chrysene	643SB002	100	88000	NA	ND	160000	NA
	643SB003	ND			120		
	643SB004	180			200		
	643SB005	970			95		
	643SB010	330			ND		
	643SB012	230			ND		

Table 10.10.4
Zone G
AOC 643
Analytes Detected in Surface and Subsurface Soil

Parameters	Location	Surface Conc.	Residential RBC* (THQ=0.1)	Surface Background	Subsurface Conc.	Soil to Groundwater SSL* (DAF=20)	Subsurface Background
Dibenz(a,h)anthracene	643SB003	ND	88	NA	70	2000	NA
	643SB005	290			ND		
	643SB010	100			ND		
	643SB012	69			ND		
Indeno(1,2,3-cd)pyrene	643SB002	38	880	NA	ND	14000	NA
	643SB003	42			140		
	643SB005	500			60		
	643SB010	170			ND		
	643SB012	120			ND		
Acenaphthene	643SB005	86	470000	NA	ND	570000	NA
Anthracene	643SB004	ND	2300000	NA	50	12000000	NA
	643SB005	200			ND		
	643SB010	72			ND		
	643SB012	48			ND		
Benzo(g,h,i)perylene	643SB002	60	230000	NA	ND	4.66E08	NA
	643SB003	57			150		
	643SB005	530			65		
	643SB006	ND			59		
	643SB010	190			ND		
	643SB012	150			ND		
Di-n-butylphthalate	643SB010	40	780000	NA	ND	2300000	NA
Di-n-octylphthalate	643SB006	69	160000	NA	ND	10000000	NA
Fluorene	643SB005	66	310000	NA	ND	560000	NA

Table 10.10.4
Zone G
AOC 643
Analytes Detected in Surface and Subsurface Soil

Parameters	Location	Surface Conc.	Residential RBC* (THQ=0.1)	Surface Background	Subsurface Conc.	Soil to Groundwater SSL* (DAF=20)	Subsurface Background
Fluoranthene	643SB002	220	310000	NA	44	4300000	NA
	643SB003	ND			130		
	643SB004	240			390		
	643SB005	1900			180		
	643SB009	41			ND		
	643SB010	500			ND		
	643SB012	380			ND		
Phenanthrene	643SB002	110	230000	NA	ND	1380000	NA
	643SB003	ND			49		
	643SB004	130			260		
	643SB005	970			88		
	643SB010	270			ND		
	643SB012	190			ND		
Pyrene	643SB002	150	230000	NA	ND	4200000	NA
	643SB003	ND			120		
	643SB004	280			370		
	643SB005	1300			130		
	643SB010	440			ND		
	643SB012	280			ND		
Pesticides/PCBs (µg/kg)							
alpha-Chlordane	643SB002	6	1800	NA	ND	10000	NA
	643SB003	ND			3.2		
	643SB005	1.7			ND		
	643SB010	6.5			ND		
	643SB012	13			ND		

Table 10.10.4
Zone G
AOC 643
Analytes Detected in Surface and Subsurface Soil

Parameters	Location	Surface Conc.	Residential RBC* (THQ=0.1)	Surface Background	Subsurface Conc.	Soil to Groundwater SSL* (DAF=20)	Subsurface Background
gamma-Chlordane	643SB002	24	1800	NA	ND	10000	NA
	643SB004	15			ND		
	643SB005	6.2			ND		
	643SB008	5.6			ND		
	643SB010	17			ND		
	643SB012	18			ND		
4,4'-DDD	643SB001	4	2700	NA	ND	16000	NA
	643SB010	24			ND		
4,4'-DDE	643SB001	8.8	1900.0	NA	ND	54000	NA
	643SB002	210			3.3		
	643SB003	8.2			10		
	643SB004	54			45		
	643SB005	20			ND		
	643SB006	380			ND		
	643SB007	3			ND		
	643SB008	100			ND		
	643SB009	85			4.9		
	643SB010	61.5			ND		
	643SB011	12			ND		
	643SB012	9.8			7.3		

Table 10.10.4
Zone G
AOC 643
Analytes Detected in Surface and Subsurface Soil

Parameters	Location	Surface Conc.	Residential RBC* (THQ=0.1)	Surface Background	Subsurface Conc.	Soil to Groundwater SSL* (DAF=20)	Subsurface Background
4,4'-DDT	643SB002	55	1900	NA	ND	32000	NA
	643SB003	6.8			25		
	643SB004	46			28		
	643SB006	94			ND		
	643SB007	110			ND		
	643SB008	24			ND		
	643SB009	29			11		
	643SB010	134			ND		
	643SB012	26			ND		
Dieldrin	643SB006	ND	40	NA	22	4	NA
Endrin	643SB002	5.7	2300	NA	ND	1000	NA
	643SB006	8.5			ND		
Endrin aldehyde	643SB002	ND	2300	NA	3.8	1000	NA
	643SB010	120			ND		
Aroclor-1260	643SB003	71	320	NA	420	1000	NA
	643SB007	1700			ND		
	643SB008	110			ND		
	643SB009	130			170		
	643SB010	1170			7		
	643SB012	150			ND		
Dioxins (ng/kg)							
Dioxin (2,3,7,8-TCDD TEQs)[1]	643SB009	0.2888	1000	NA	NA	1900	NA
	643SB010	5.4849					

Table 10.10.4
Zone G
AOC 643
Analytes Detected in Surface and Subsurface Soil

Parameters	Location	Surface Conc.	Residential RBC* (THQ=0.1)	Surface Background	Subsurface Conc.	Soil to Groundwater SSL* (DAF=20)	Subsurface Background
Inorganics (mg/kg)							
Aluminum (Al)	643SB001	3220	7800.0	18700	2160	1000000	23600
	643SB004	3110			3380		
	643SB007	4150			5740		
	643SB009	5210			NT		
	643SB010	6290			NT		
Antimony	643SB004	1	3.1	2.89	ND	5	NL
	643SB010	0.86			NT		
Arsenic (As) 9, 7, 4	643SB001	3.4	0.43	17.2[a]	2.4	29	15.5[b]
	643SB004	5.3			5.1		
	643SB007	1.2			8.1		
	643SB009	52.7			NT		
	643SB010	6.5			NT		
Barium (Ba)	643SB001	8.3	550.0	109	5.6	1600	64.5
	643SB004	16.8			10.8		
	643SB007	8.2			9.1		
	643SB009	11.1			NT		
	643SB010	130			NT		
Beryllium (Be)	643SB001	0.31	0.15	1.20	0.33	63	1.63
	643SB004	0.37			0.39		
	643SB007	ND			0.48		
	643SB009	0.2			NT		
	643SB010	0.37			NT		

Table 10.10.4
Zone G
AOC 643
Analytes Detected in Surface and Subsurface Soil

Parameters	Location	Surface Conc.	Residential RBC* (THQ=0.1)	Surface Background	Subsurface Conc.	Soil to Groundwater SSL* (DAF=20)	Subsurface Background
Cadmium (Cd)	643SB001	0.07	3.9	1.07	ND	8	0.48
	643SB004	0.66			0.28		
	643SB007	0.05			0.25		
	643SB009	0.14			NT		
	643SB010	0.69			NT		
Calcium (Ca)	643SB001	32600	NL	NL	4960	NL	NL
	643SB004	24700			7520		
	643SB007	651			97200		
	643SB009	12700			NT		
	643SB010	106000			NT		
Chromium (Cr)	643SB001	9.9	39 VI	42.8	6.1	~~1000000~~	43.4*
	643SB004	16.6	7800 III		11.1		
10, 7, 4, 19	643SB007	4.7			33.7		
	643SB009	8.8			NT		
	643SB010	52.3			NT		
Cobalt (Co)	643SB001	24.8	470.0	6.60	0.73	2000	8.14
	643SB004	1.7			1.6		
	643SB007	0.48			1.5		
	643SB009	0.73			NT		
	643SB010	1.5			NT		
Copper (Cu)	643SB001	20.3	27000	260	ND	920	32.6
	643SB004	36.8			9.8		
	643SB007	ND			7.4		
	643SB009	5.5			NT		
	643SB010	22.5			NT		

Table 10.10.4
Zone G
AOC 643
Analytes Detected in Surface and Subsurface Soil

Parameters	Location	Surface Conc.	Residential RBC* (THQ=0.1)	Surface Background	Subsurface Conc.	Soil to Groundwater SSL* (DAF=20)	Subsurface Background
Cyanide (CN)	643SB010	0.12	160	0.38	NT	40	0.22
Iron (Fe)	643SB001	4340	2300	NL	2770	NL	NL
	643SB004	6290			6350		
	643SB007	3400			7150		
	643SB009	4140			NT		
	643SB010	5530			NT		
Lead(Pb)	643SB001	5.6	400.0	181	2.6	400	66.3
	643SB004	154			27.5		
	643SB007	4.7			3.3		
	643SB009	9.1			NT		
	643SB010	94.6			NT		
Magnesium (Mg)	643SB001	912	NL	NL	467	NL	NL
	643SB004	1060			912		
	643SB007	162			3980		
	643SB009	664			NT		
	643SB010	2860			NT		
Manganese (Mn)	643SB001	44.1	180.0	325	18	1100	291
	643SB004	58.2			51.9		
	643SB007	7.4			103		
	643SB009	30.9			NT		
	643SB010	184			NT		
Mercury (Hg)	643SB009	0.09	2.3	1.03	NT	2.1	0.31
	643SB010	0.14			NT		

Table 10.10.4
Zone G
AOC 643
Analytes Detected in Surface and Subsurface Soil

Parameters	Location	Surface Conc.	Residential RBC* (THQ=0.1)	Surface Background	Subsurface Conc.	Soil to Groundwater SSL* (DAF=20)	Subsurface Background
Nickel (Ni)	643SB004	21.5	160.0	20.6	ND	130	18.3
	643SB009	3.6			NT		
	643SB010	16.8			NT		
Potassium (K)	643SB001	322	NL	NL	288	NL	NL
	643SB004	306			398		
	643SB007	ND			827		
	643SB009	260			NT		
	643SB010	761			NT		
Selenium (Se)	643SB001	0.53	39.0	1.22	ND	5	1.26
	643SB004	0.47			ND		
	643SB007	ND			1.2		
	643SB010	0.86			NT		
Silver (Ag)	643SB001	0.65	39	NL	ND	34	NL
Sodium (Na)	643SB009	266	NL	NL	NT	NL	NL
	643SB010	623			NT		
Tin (Sn)	643SB009	0.92	4700	9.67	NT	11000	2.96
	643SB010	2.4			NT		
Vanadium (V)	643SB001	9.4	55.0	60.9	6.1	6000	72.5
	643SB004	141			31.3		
	643SB007	7.9			21.8		
	643SB009	12.2			NT		
	643SB010	51.5			NT		

Table 10.10.4
Zone G
AOC 643
Analytes Detected in Surface and Subsurface Soil

Parameters	Location	Surface Conc.	Residential RBC* (THQ=0.1)	Surface Background	Subsurface Conc.	Soil to Groundwater SSL* (DAF=20)	Subsurface Background
Zinc (Zn)	643SB009	24.1	2300.0	519	NT	12000	145
	643SB010	155			NT		

Notes:

a	=	Background value for non-clay samples
*	=	Residential RBCs (THQ=0.1) were used as a reference concentration for upper interval samples. Generic soil-to-groundwater SSLs (DAF=20) from the *Soil Screening Guidance: Technical Background Document* (USEPA, 1996b) were used as a reference concentration for lower interval samples
I	=	Calculated from methods described in USEPA Interim *Supplemental Guidance to RAGS: Human Health Risk Assessment*, Bulletin 2 (USEPA, 1995b)
ND	=	Not detected
NT	=	Not taken
NL	=	Not listed
NA	=	Not applicable
µg/kg	=	Micrograms per kilogram
mg/kg	=	Milligrams per kilogram
ng/kg	=	Nanograms per kilogram

Bolded concentrations exceed both the reference concentration (RBC or SSL) and the zone background
All background values for Zone G are based on twice the means of the grid sample concentrations.

Table 10.10.6
Zone G
AOC 643
Organic Analytical Results for Sediment

Parameters	Frequency of Detection	Range of Detections (µg/kg)	Mean of Detections (µg/kg)
Volatile Organic Compounds (1 Sample) (µg/kg)			
Trichloroethene	1/1	3.00	3.00
Semivolatile Organic Compounds (1 Sample) (µg/kg)			
BEQs[1]	1/1	2033.7	2033.7
Benzo(a)anthracene	1/1	1300	1300
Benzo(b)fluoranthene	1/1	1200	1200
Benzo(k)fluoranthene	1/1	1300	1300
Benzo(a)pyrene	1/1	1300	1300
Chrysene	1/1	1700	1700
Dibenz(a,h)anthracene	1/1	390	390
Indeno(1,2,3-cd)pyrene	1/1	790	790
Acenaphthene	1/1	230	230
Acenaphthylene	1/1	63.0	63.0
Anthracene	1/1	410	410
Benzo(g,h,i)perylene	1/1	870	870
Di-n-butylphthalate	1/1	520	520
Di-n-octylphthalate	1/1	710	710
Dibenzofuran	1/1	140	140
bis(2-Ethylhexyl)phthalate	1/1	14000	14000
Fluoranthene	1/1	4400	4400
Fluorene	1/1	160	160
2-Methylnaphthalene	1/1	200	200
4-Methylphenol (p-Cresol)	1/1	86.0	86.0
Naphthalene	1/1	160	160
Phenanthrene	1/1	2100	2100
Pyrene	1/1	3000	3000

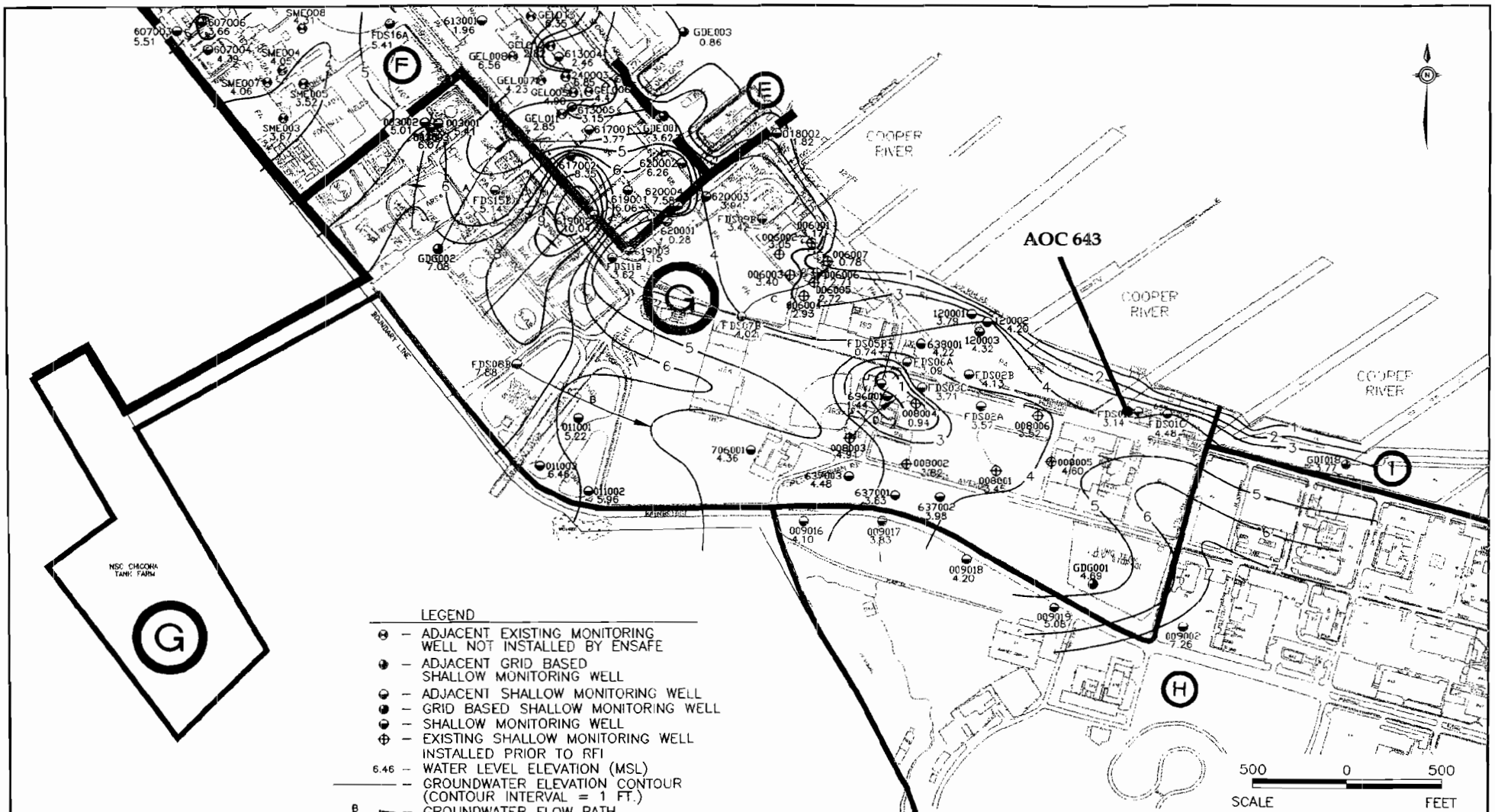
Table 10.10.6
Zone G
AOC 643
Organic Analytical Results for Sediment

Parameters	Frequency of Detection	Range of Detections (µg/kg)	Mean of Detections (µg/kg)
Pesticides and PCBs (1 Sample) (µg/kg)			
alpha-Chlordane	1/1	45.0	45.0
gamma-Chlordane	1/1	49.0	49.0
4,4'-DDD	1/1	42	42
4,4'-DDE	1/1	43	43
4,4'-DDT	1/1	9.20	9.20
Dieldrin	1/1	6.60	6.60
Endrin aldehyde	1/1	110	110
Heptachlor epoxide	1/1	2.90	2.90

Notes:
1 = Calculated from methods described in USEPA Interim *Supplemental Guidance to RAGS: Human Health Risk Assessment*, Bulletin 2 (USEPA, 1995b)
µg/kg = Micrograms per kilogram

Table 10.10.7
Zone G
AOC 643
Analytes Detected in Sediment Samples

Parameters	Location	Concentration
Volatile Organic Compounds (µg/kg)		
Trichloroethene	643M0001	3
Semivolatile Organic Compounds (µg/kg)		
BEQs[1]	643M0001	2033.7
Benzo(a)anthracene	643M0001	1300
Benzo(b)fluoranthene	643M0001	1200
Benzo(k)fluoranthrene	643M0001	1300
Benzo(a)pyrene	643M0001	1300
Chrysene	643M0001	1700
Dibenz(a,h)anthracene	643M0001	390
Indeno(1,2,3-cd)pyrene	643M0001	790
Acenaphthene	643M0001	230
Acenaphthylene	643M0001	63
Anthracene	643M0001	410
Benzo(g,h,i)perylene	643M0001	870
Dibenzofuran	643M0001	140
Di-n-butylphthalate	643M0001	520
Di-n-octylphthalate	643M0001	710
bis(2-Ethylhexyl)phthalate	643M0001	14000
Fluoranthene	643M0001	4400
Fluorene	643M0001	160
2-Methylnaphthalene	643M0001	200
4-Methylphenol	643M0001	86
Naphthalene	643M0001	160
Phenanthrene	643M0001	2100
Pyrene	643M0001	3000


AOC 643
COOPER RIVER
COOPER RIVER
COOPER RIVER
BOUNDARY LINE
NSC CHICORA TANK FARM
F
E
G
H
I
LEGEND
– ADJACENT EXISTING MONITORING WELL NOT INSTALLED BY ENSAFE
– ADJACENT GRID BASED SHALLOW MONITORING WELL
– ADJACENT SHALLOW MONITORING WELL
– GRID BASED SHALLOW MONITORING WELL
– SHALLOW MONITORING WELL
– EXISTING SHALLOW MONITORING WELL INSTALLED PRIOR TO RFI
6.46 – WATER LEVEL ELEVATION (MSL)
– GROUNDWATER ELEVATION CONTOUR (CONTOUR INTERVAL = 1 FT.)
– GROUNDWATER FLOW PATH (LABELED FOR TEXT DISCUSSION)
NOTE:
FOR CLARITY, NOT ALL SHALLOW WELLS LOCATED IN ZONE G ARE PRESENTED IN THIS FIGURE.
GREY SCALED WELLS ARE NOT INCLUDED IN TABLE 2-1.
500 0 500
SCALE FEET
ZONE G
RCRA FACILITY
INVESTIGATION REPORT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.
FIGURE 2-5
ZONE G SHALLOW GROUNDWATER
LOW-TIDE POTENTIOMETRIC MAP
DWG DATE:02/04/98
DWG NAME:2907GLTM

COMPLETION REPORT

INTERIM MEASURE FOR
AOC 643
NAVAL BASE CHARLESTON
CHARLESTON, SC

Prepared for:

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
CHARLESTON SC

Prepared by:

SOUTH CAROLINA RESEARCH AUTHORITY
Environmental Enterprise Group
1899 North Hobson Avenue, Bldg. 30
North Charleston, SC 29405-2106

October 12, 1999

SCRA®

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December 14, 1999
Ser:102

Director, Division of Hazardous and Infectious
Waste Management (John Litton, P. E.)
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, SC 29201

Re: Completion Report for Charleston Naval Complex (CNC) Area Of Concern (AOC) 643.

South Carolina Research Authority (SCRA), Environmental Enterprise Group was contracted to generate a Completion Report for AOC 643 per purchase requisition No. CHNPO9922. The enclosed report documents the actions performed at AOC 643.

Questions or information concerning this report should be addressed to Virginia Thomas at (843) 202-8065 or Jed Heames at 202-8060.

Respectfully,

for M Tunstall
E. R. Dearhart
SCRA, Vice-President
Environmental Enterprise Group

COMPLETION REPORT

Interim/Stabilizatin Measure for AOC 643 Charleston Naval Complex, Charleston, SC

Engineering Branch Head: _____ Date: 12/14/99

Prepared By: _____ Date: 12/14/99

REPORT GENERATED BY:
SOUTH CAROLINA RESEARCH AUTHORITY
Environmental Enterprise Group
1899 NORTH HOBSON AVENUE
NORTH CHARLESTON, SC 29405

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ACRONYMS, ABBREVIATIONS and SYMBOL

ACM	Asbestos Containing Material
AOC	Area of Concern
BLS	Below Land Surface
CMS	Corrective Measures Study
COPC	Constituents of Potential Concern
DERP	Defense Environmental Restoration Program
DET	Environmental Detachment Charleston
DON	Department of the Navy
DQO	Data Quality Objective
EPA	U. S. Environmental Protection Agency
IM	Interim Measure
IR	Installation Restoration
RBC	Risk-Based Concentration
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
SARA	Superfund Amendments and Reauthorization Act
SCDHEC	South Carolina Department of Health and Environmental Control
SOUTHDIV	Southern Division Naval Facilities Engineering Command
SSL	Soil Screening Levels
SUPSHIP	Supervisor of Shipbuilding, Conversion and Repair, USN
SWMU	Solid Waste Management Units
USN	United States Navy

1. INTRODUCTION

1.1 INSTALLATION RESTORATION PROGRAM The purpose of the Department of the Navy (DON) Installation Restoration (IR) Program is to identify, assess, characterize and clean up or control contamination from past hazardous waste disposal operations and hazardous material spills at Navy and Marine Corps activities. The Defense Environmental Restoration Program (DERP) is codified in the Superfund Amendments and Reauthorization Act (SARA) Section 211 (10 USC 2701). The IR Program is a component of DERP.

1.1.1 Naval Base Charleston IR Program At Naval Base Charleston, a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) was prepared which divided the Naval Base into zones and identified Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) within each zone. The RFA evaluated each SWMU and AOC and determined which sites required further investigation. Based on the RFA, a RCRA Facility Investigation (RFI) work plan has been or is being prepared for each zone containing SWMUs and AOCs requiring further investigation. On completion of the RFI for each Zone, a RFI report will be prepared for that zone. The RFI reports will identify SWMUs and AOCs containing wastes requiring remediation. Eventually, Corrective Measures Studies (CMSs) will be prepared to determine the best means of remediating each site.

1.2 INTERIM MEASURES Interim Measures (IM) performed as part of the IR Program are intended to eliminate sources of environmental contamination or limit the spread of environmental contaminants prior to the completion of the RFI CMSs.

1.3 AOC 643 AOC 643 is an abandoned electrical substation at Building 125 located in Zone G that lies on the north side of Hobson Avenue near the entrance to pier N. A wooden enclosure that was adjacent to Building 125 was previously removed. This building contained transformers, inactive DC generators, switches, and breakers. Past investigations documented in the Zone G

RCRA Facility Investigation Report for NAVBASE Charleston identified Polychlorinated Biphenyls (PCBs) and Arsenic (As) the environmental concern in the soil at this site.

1.4 AOC 643 INTERIM MEASURE During the interval between the RFI and the completion of the CMS, it was decided by Southern Division Naval Facilities Engineering Command (SOUTHDIV) that an IM would be performed by Supervisor of Shipbuilding, Conversion and Repair (SUPSHIP), United States Navy (USN), Portsmouth Va. Environmental Detachment Charleston (SPORTENVDETCHASN). The objective of this IM was to delineate the horizontal extent of the PCB and Arsenic contamination. This action was performed March 1999 prior to Work Plan implementation and these samples were utilized as clean boundries for the horizontal extent (Sample locations shown on figure 1 of Appendix C). The excavation was to continue until the sampling program indicated with reasonable confidence that the concentrations of PCB's at the site was less than the clean soil definition as specified by 40 Code of Federal Regulations (CFR) 761.125 of < 1 ppm. The cleanup objective for Arsenic was 17.2 ppm, the established background concentration for Zone G RCRA Facility Investigation Report dated 13 June 1996. It was also recommended by SOUTHDIV that one sample be collected and analyzed for Benzo(a)pyrene Equivalents (BEQs) and reported for information. This was requested due to trace amounts of reportable BEQs identified during the RFI on the opposite side of Building 125. This IM is consistent with the ultimate cleanup of the site and is not intended to circumvent the public participation process inherent within environmental cleanup under RCRA authority.

2. INTERIM MEASURE EXECUTION

2.1 ACTIONS REQUIRED BY INTERIM MEASURE WORK PLAN The Work Plan accomplished the following:

- Removal and disposal of approximatetly 13 cubic yards of PCB and As contaminated soil surrounding soil borings 643SB007, 643SB010, and 643SB009.
- Perform confirmation sampling and analyze one sample for BEQ levels for information.
- Backfill site with approximately 22 cubic yards of clean soil.

2.1.1 PLAN MODIFICATIONS AND JUSTIFICATION The IM Work Plan (Rev 0) specified removal of soil to a depth of 1' and beyond in the two areas that contained PCB and Arsenic contamination (See figure 1 of Appendix A). The results of the initial confirmation sampling revealed PCB contamination (1.8 ppm) existed above the cleanup objective at one sample location (#15 on Figure 1 of Appendix A) requiring further excavation and sampling. An area measuring 6′ x 4′ and 2′ additional feet in depth was excavated on 27 August 1999. Site photographs are included in Appendix E. Confirmation sampling confirmed PCB levels <1ppm (See Figure #3 of Appendix A).

3. INTERIM MEASURE OUTCOME

3.1 SITE CONDITIONS FOLLOWING COMPLETION OF WORK. This Interim Measure effectively removed contaminated soil from the site meeting the cleanup objective of paragraph 1.4 of this report. Groundwater was not encountered. Following completion of all site work on 09 September 1999, the DET had removed a combined 15 cubic yards of PCB/As contaminated soil. There were no detectable BEQs found in the one sample analyzed for informational purposes. The site was back-filled, graded and seeded to existing conditions. Site photographs are included in Appendix E.

4. SAMPLING

4.1 SAMPLING EVOLUTIONS AND RESULTS

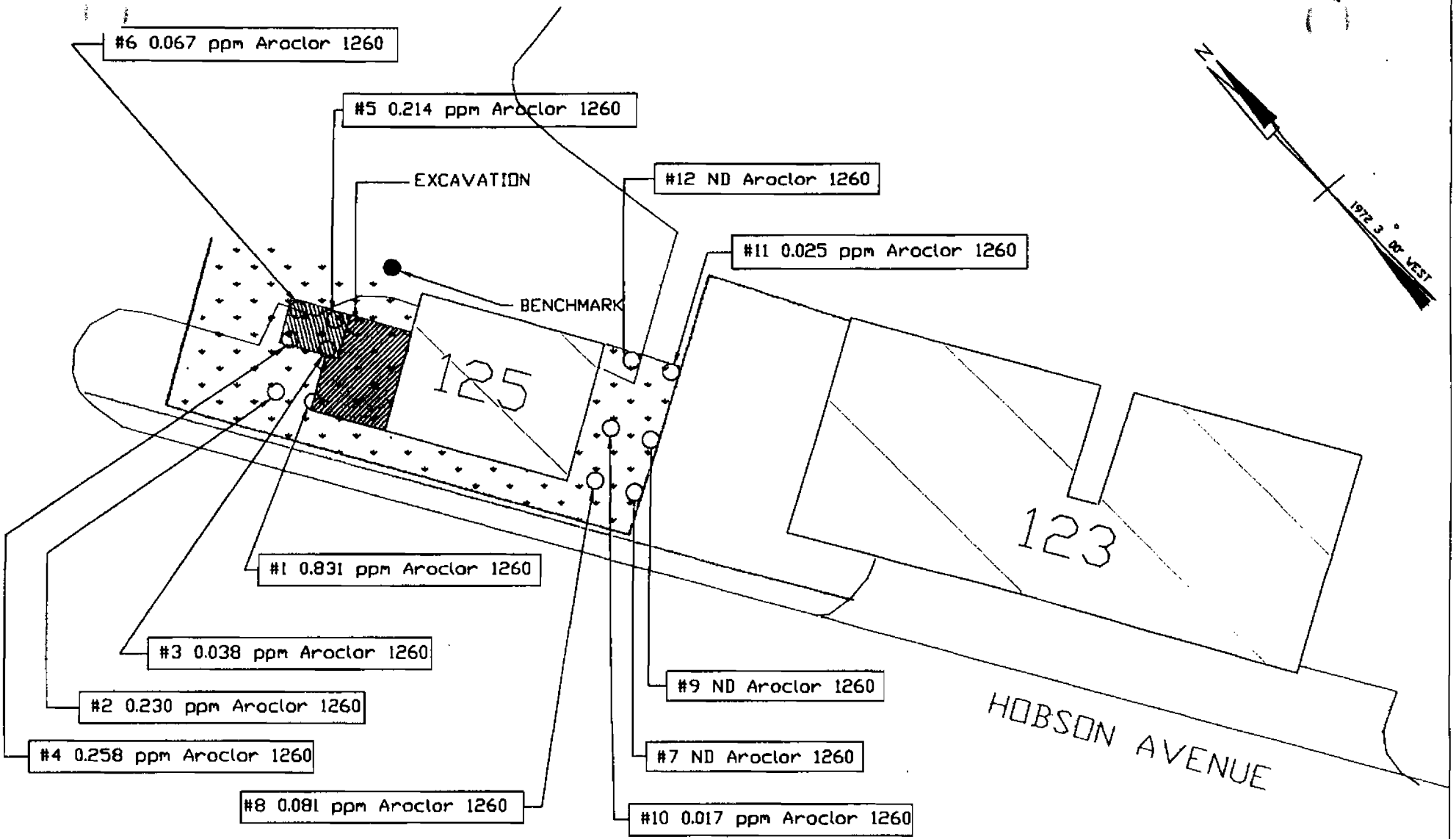
4.1.2 Confirmation Sampling Upon completion of the initial excavation, five discrete samples were collected from the bottom of the excavations to determine verify the effectiveness of contamination removal. The samples were analyzed for PCB, As, and BEQ. See Appendix C for sampling documentation. The land surface to approximately 6" below ground surface was made up of topsoil. From 8"below ground surface to the bottom of the excavations, the soil was a sandy fill, light brown in color with orange-brown mottling, with some silt and clay. Groundwater was not encountered during the course of the excavation work.

5. WASTE GENERATION

5.1 NON-HAZARDOUS WASTE

A total of 15 cubic yards of non-hazardous PCB/As contaminated soil was disposed of to a Subtitle D landfill permitted to accept special waste. Waste disposal characterization analyses verified the excavated soils as non-hazardous special waste containing PCB as Aroclor 1260 and Arsenic (See Appendix D).

Waste Manifests are enclosed in Appendix F.



LEGEND

- PROPOSED PCB EXCAVATION AREA
- PROPOSED ARSENIC EXCAVATION AREA
- GRASSY AREA
- DELINEATION SAMPLE LOCATION

GRAPHIC SCALE

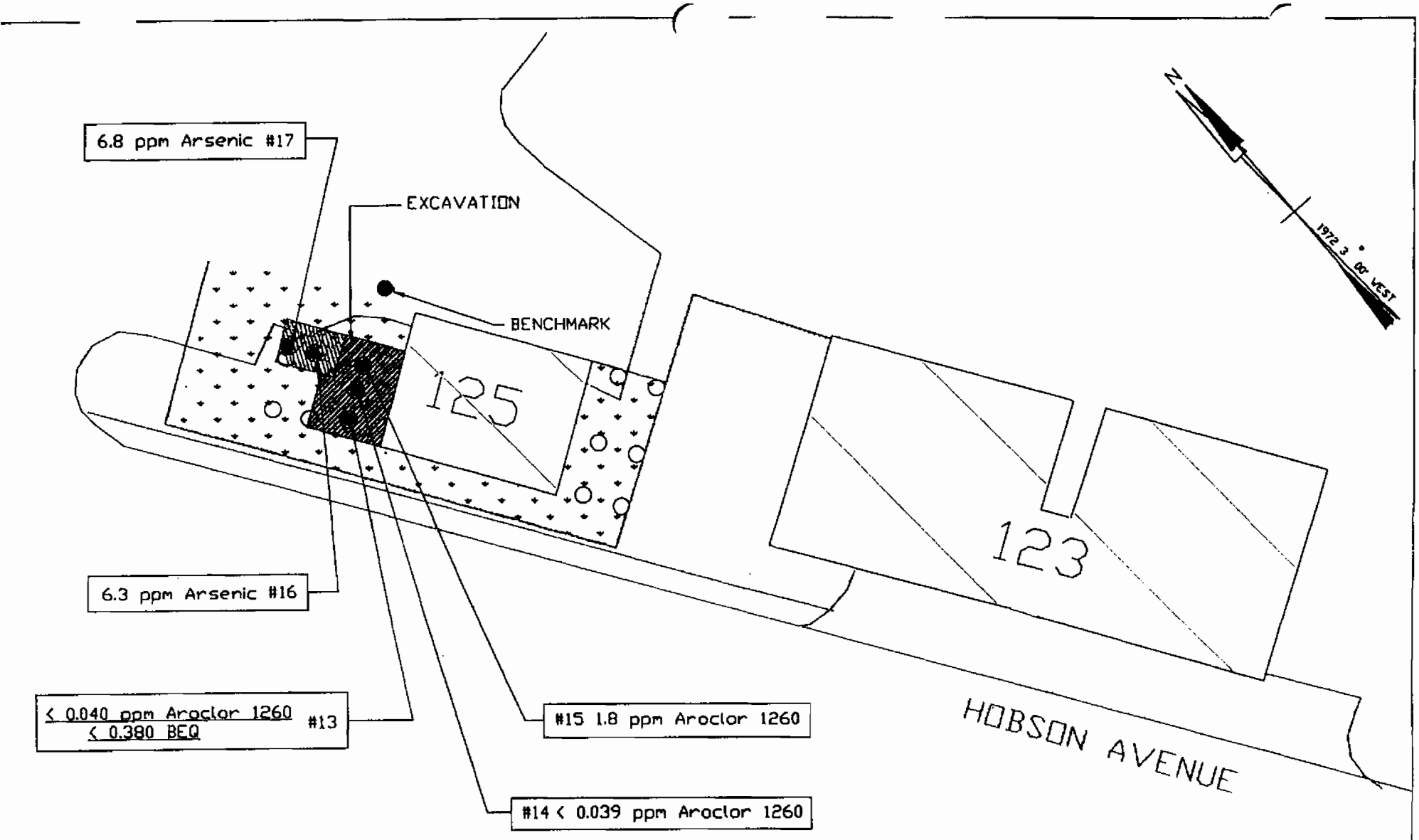
30' 0 30'

APPENDIX A-1

SPORTENVDETCHASN
1899 North Hobson Ave.
North Charleston, SC
29405-2106
Ph. (803) 743-6777

Figure 1 DELINEATION SAMPLES
AOC 643 (INITIAL EXCAVATION)
SUBSTATION BUILDING 125
ZONE G
Naval Base Charleston, SC

DWG DATE:02 JUN 99 | DWG NAME: B-125_1



LEGEND

- PROPOSED PCB EXCAVATION AREA
- PROPOSED ARSENIC EXCAVATION AREA
- GRASSY AREA
- CONFIRMATION SAMPLE
- I EATION SAMPLE LOCATION

GRAPHIC SCALE

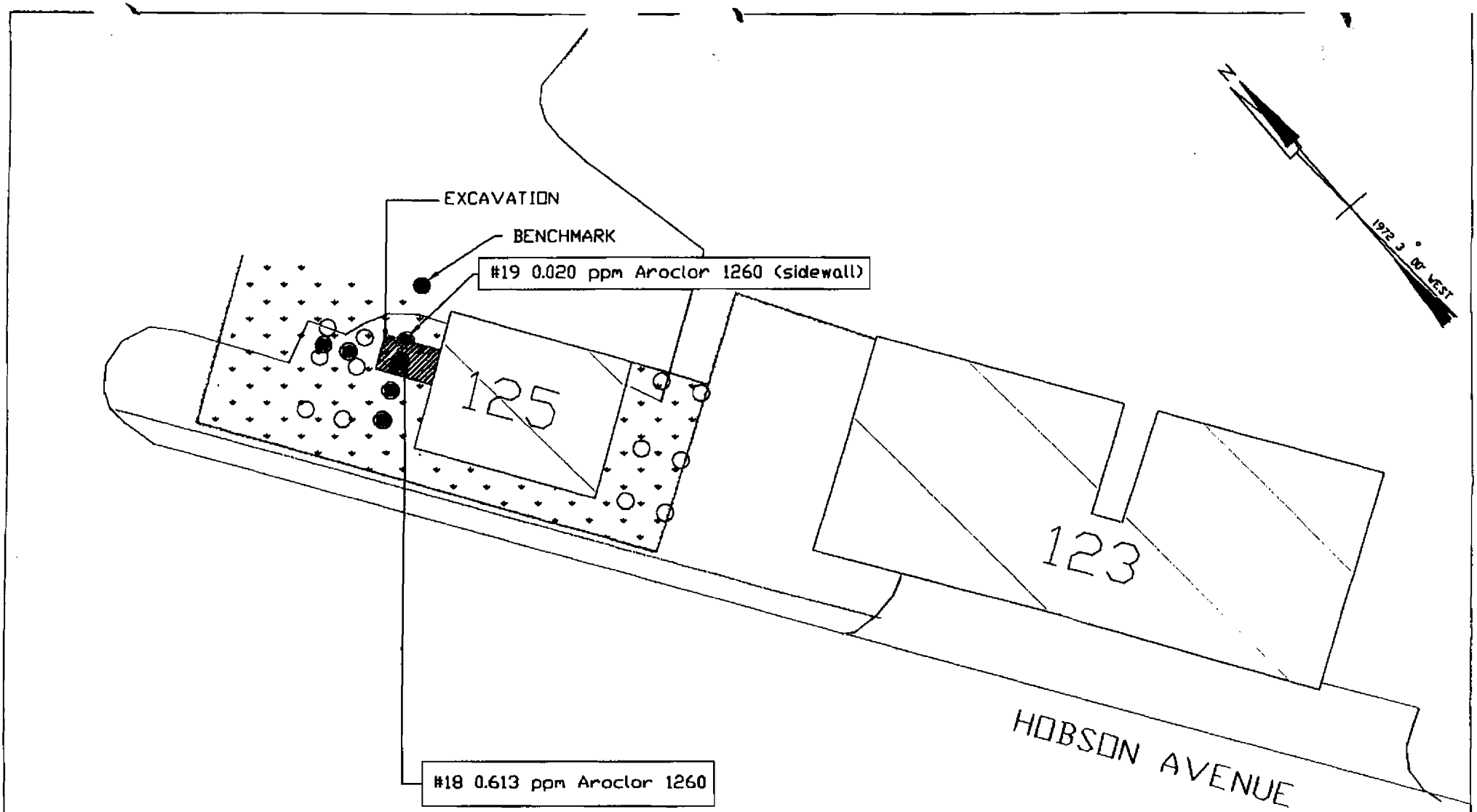
30' 0 30'

APPENDIX A-2

SPORTENVDETCHASN
1899 North Hobson Ave.
North Charleston, SC
29405-2108
P (803) 743-6777

Figure 2 INITIAL CONFIRMATION SAMPLES
AOC 643 (INITIAL EXCAVATION)
SUBSTATION BUILDING 125
ZONE G
Naval Base Charleston, SC

DWG DATE:21 SEP 99 | DWG NAME: 25_2



LEGEND

- PROPOSED PCB EXCAVATION AREA
- GRASSY AREA
- FINAL CONFIRMATION SAMPLE
- CONFIRMATION SAMPLE
- DELINEATION SAMPLE LOCATION

GRAPHIC SCALE

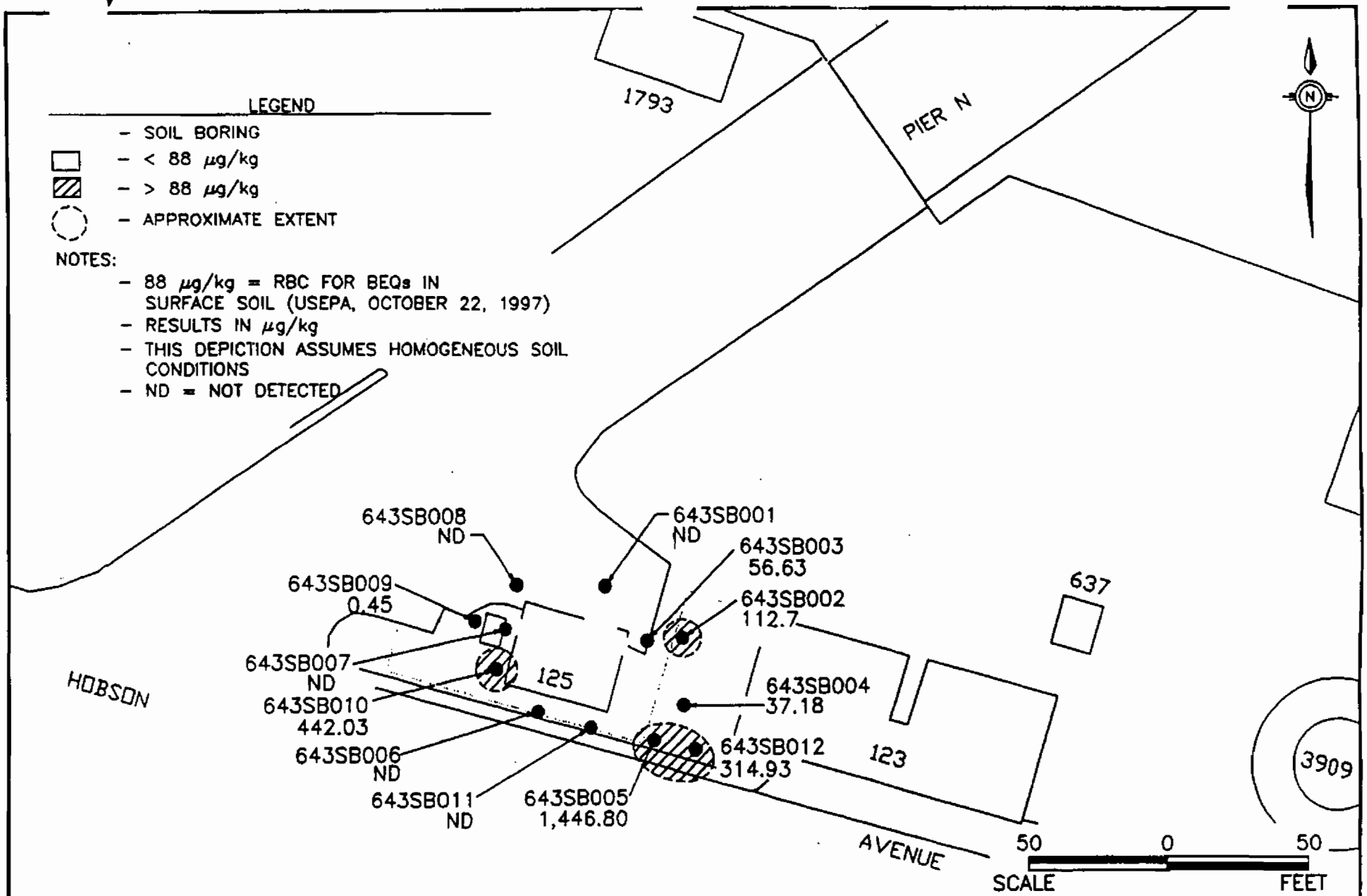
30' 0 30'

APPENDIX A-3

SPORTENVDETCHASN
1899 North Hobson Ave.
North Charleston, SC
29405-2106
Ph. (803) 743-6777

Figure 3 FINAL CONFIRMATION SAMPLES
AOC 643 (FINAL EXCAVATION)
SUBSTATION BUILDING 125
ZONE G
Naval Base Charleston, SC

DWG DATE:21 SEP 99 | DWG NAME: B-125_3

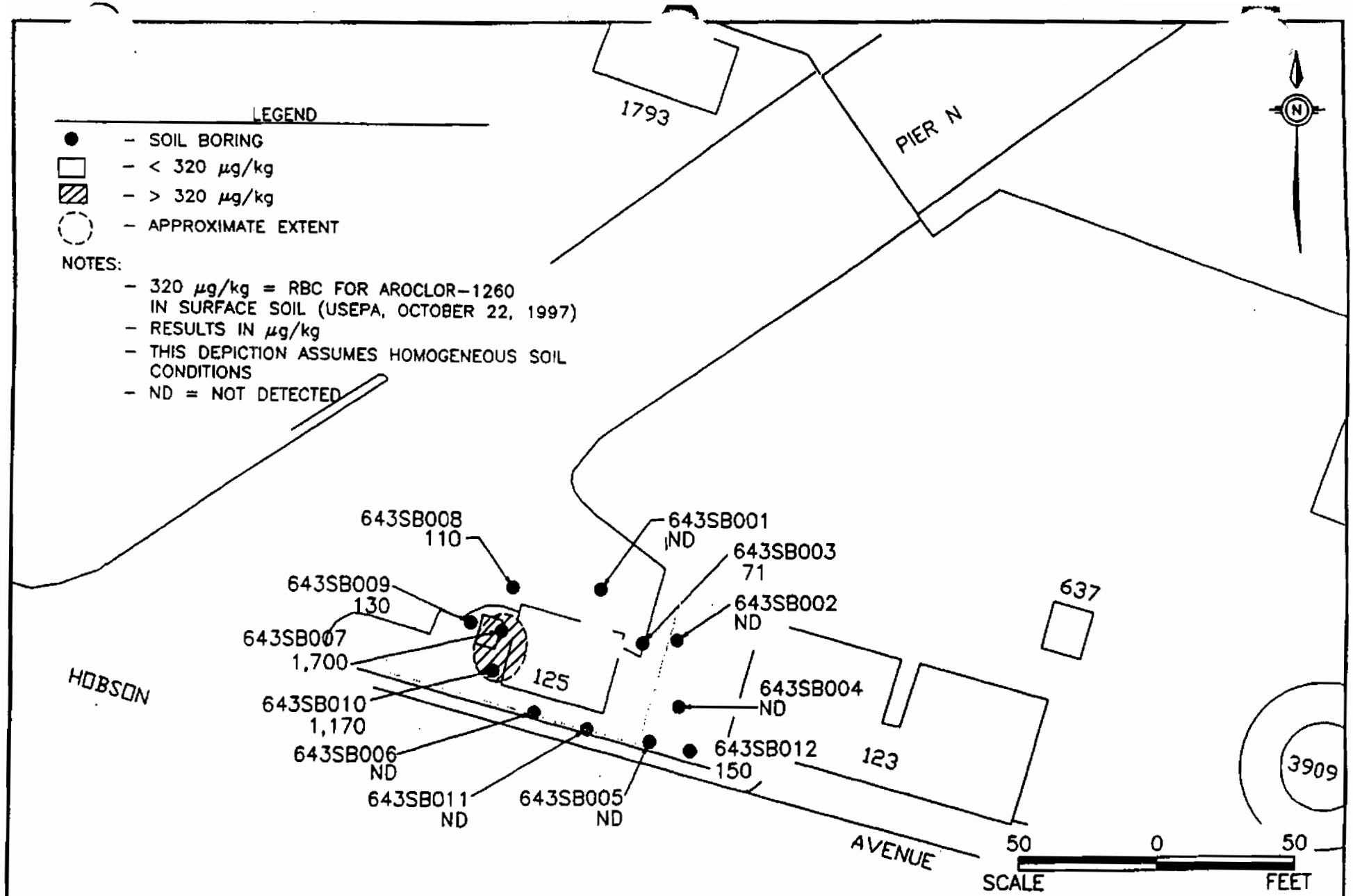


APPENDIX A-4

ZONE G
RCRA FACILITY
INVESTIGATION REPORT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.

FIGURE 10.10-2
BEQs IN SURFACE SOIL
AOC #643
SUBSTATION,
BUILDING 125

DWG DATE: 01/29/98 | DWG NAME: 2907M014

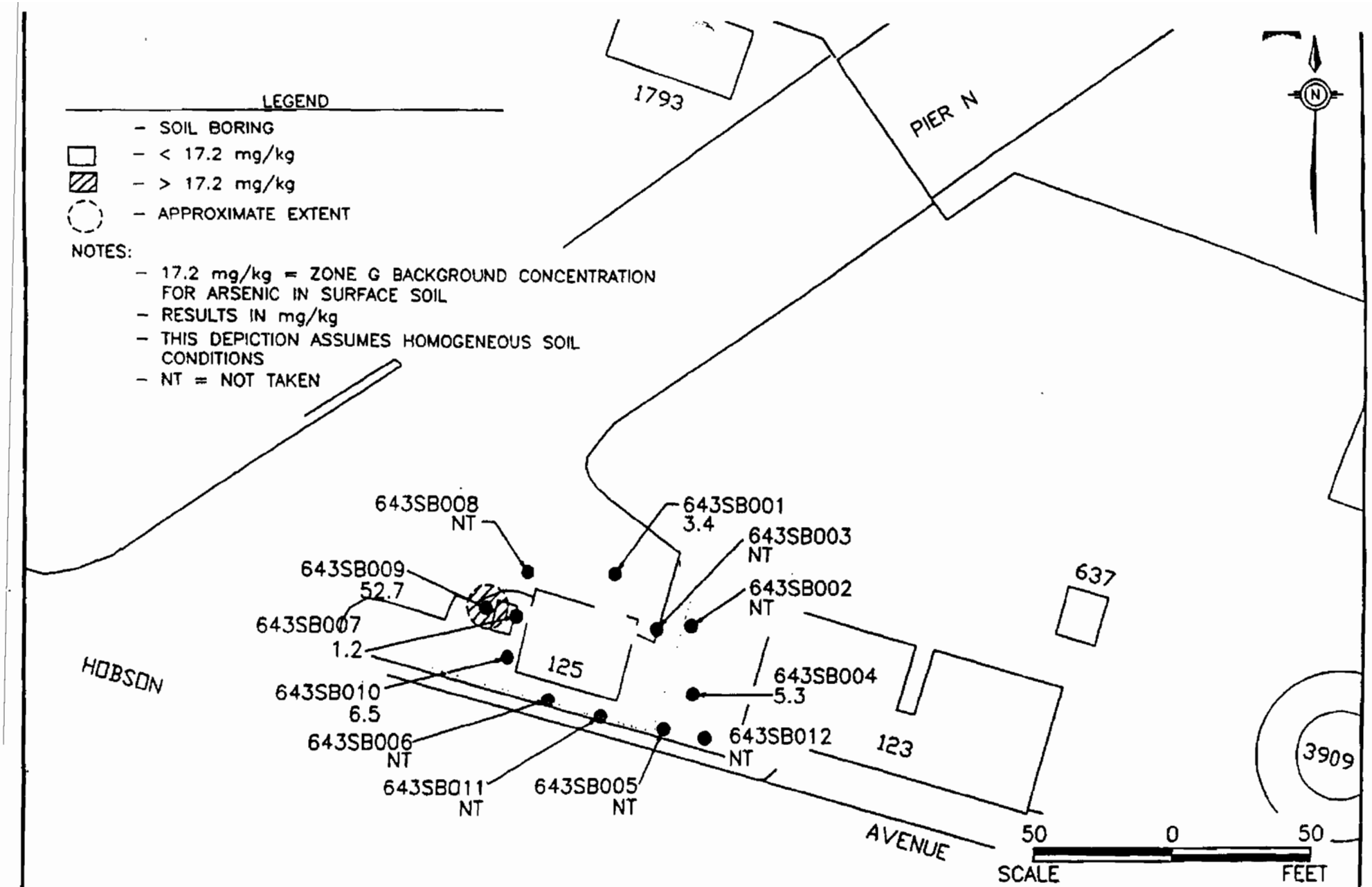


APPENDIX A-5

ZONE G
RCRA FACILITY
INVESTIGATION REPORT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.

FIGURE 10.10-3
AROCLOR-1260 IN SURFACE SOIL
AOC #643
SUBSTATION,
BUILDING 125

DWG DATE: 01/29/98 | DWG NAME: 2907M015

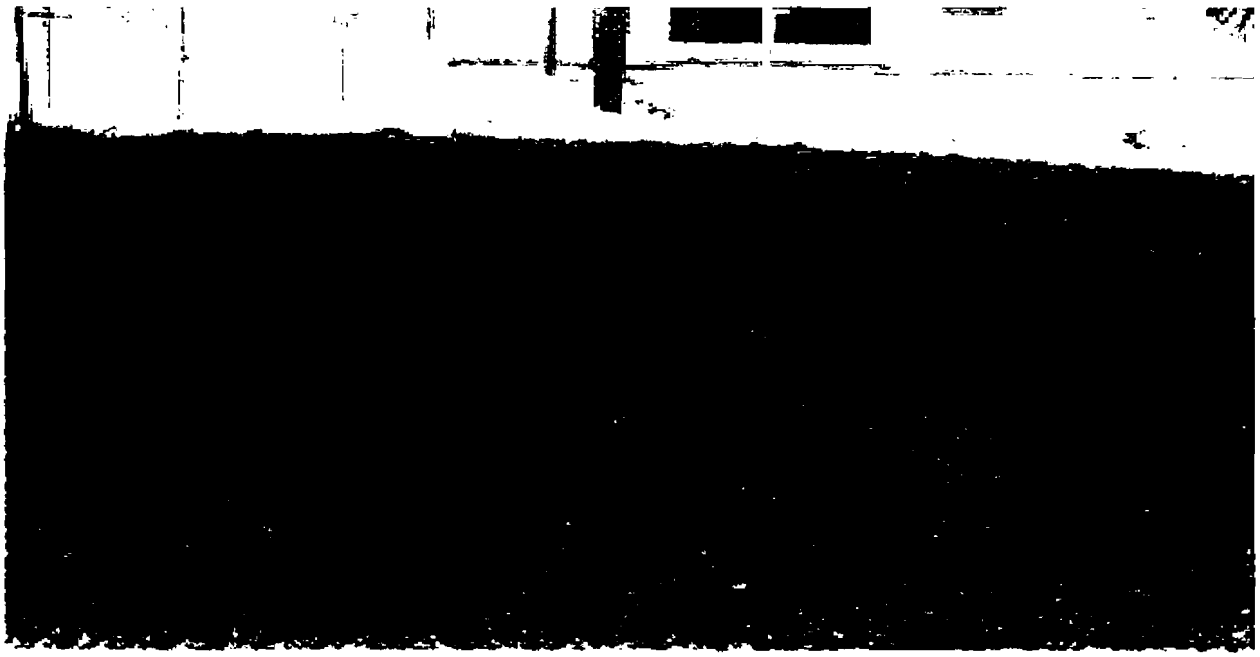


APPENDIX A-6

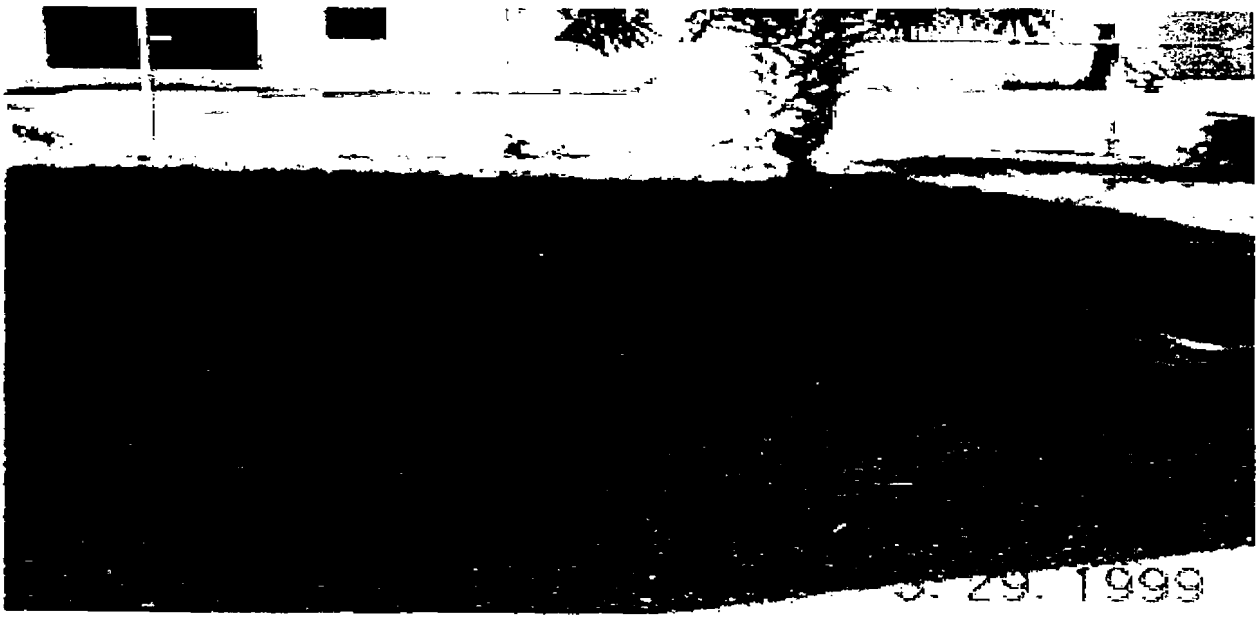
ZONE G
RCRA FACILITY
INVESTIGATION REPORT
NAVAL BASE CHARLESTON
CHARLESTON, S.C.

FIGURE 10.10-5
ARSENIC IN SURFACE SOIL
AOC #643
SUBSTATION,
BUILDING 125

DWG DATE: 02/04/98 | DWG NAME: 2907M017



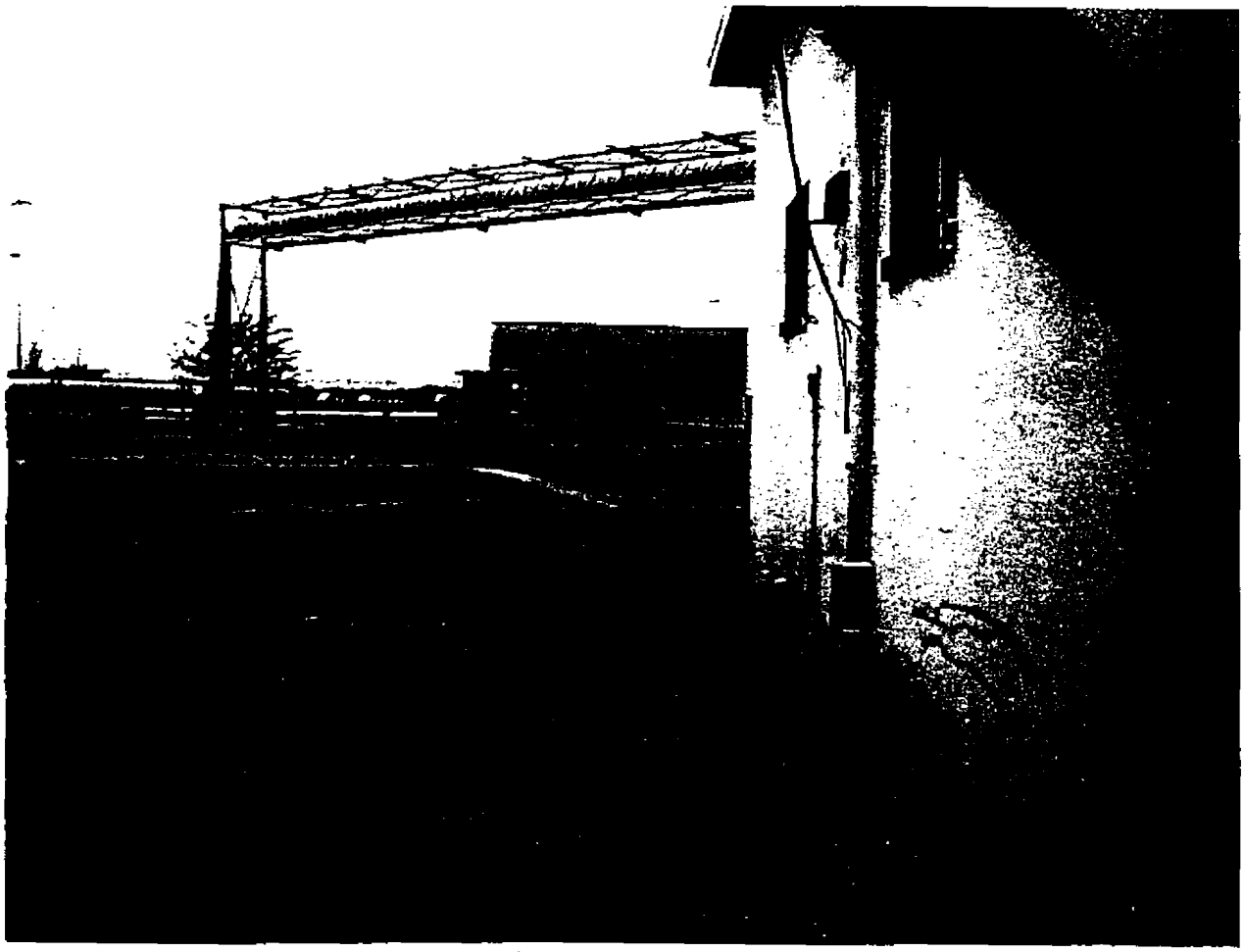
AOC 643 Prior to excavation looking west with Hobson Avenue and Building X10 in the background



AOC 643 Prior to excavation looking west with Hobson Avenue in the background

Excavated area after initial soil removal with building 125 in the background looking southwest

Excavated area after initial soil removal with Building 125 in the background looking southwest



Excavation area after additional soil removal looking northeast

Backfilled area with grass restoration

	StationID	G643SB009		G643SB010		G643SB013	
	SampleID	643CB00901 (0-1ft)		643CB01001 (0-1ft)		643SB01302 (3-5ft)	
	DateCollected	01/08/1997		01/08/1997		07/29/1999	
	DateAnalyzed	1/14/97		1/14/97			
	SDGNumber	28114		28114		39715	
Parameter	**Units**						
Aluminum, SPLP	ug/L						
Antimony, SPLP	ug/L						
Arsenic,SPLP	ug/L						
Barium, SPLP	ug/L						
Beryllium, SPLP	ug/L						
Cadmium, SPLP	ug/L						
Calcium, SPLP	ug/L						
Cobalt, SPLP	ug/L						
Copper, SPLP	ug/L						
Iron, SPLP	ug/L						
Lead, SPLP	ug/L						
Magnesium, SPLP	ug/L						
Manganese, SPLP	ug/L						
Mercury, SPLP	ug/L						
Nickel, SPLP	ug/L						
Potassium, SPLP	ug/L						
Selenium, SPLP	ug/L						
Silver, SPLP	ug/L						
Sodium, SPLP	ug/L						
Thallium, SPLP	ug/L						
Tin (Sn), SPLP	ug/L						
Vanadium, SPLP	ug/L						
Zinc, SPLP	ug/L						
Aluminum	mg/Kg	5210	=	6290	=	5050	=
Antimony	mg/Kg	0.34	U	0.86	J	0.62	J
Arsenic	mg/Kg	52.7	=	6.5	=	7.9	=
Barium	mg/Kg	11.1	=	130	=	14.8	=
Beryllium	mg/Kg	0.2	J	0.37	=	0.6	J
Cadmium	mg/Kg	0.14	J	0.69	=	0.36	J
Calcium	mg/Kg	12700	=	106000	=	28900	=
Chromium, Total	mg/Kg	8.8	=	52.3	=	16.4	=
Chromium, Total	ug/L						

	StationID	G643SB013		G643SB015		G643SB015	
	SampleID	643SB01302 (3-5ft)		643SB01501 (0-1ft)		643SB01502 (3-5ft)	
	DateCollected	07/29/1999		12/17/1999		12/17/1999	
	DateAnalyzed	8/4/99		1/6/00		1/6/00	
	SDGNumber	39715		EN037		EN037	
Parameter	**Units**						
Aluminum, SPLP	ug/L	216	=				
Antimony, SPLP	ug/L	5	U				
Arsenic,SPLP	ug/L	3.3	U				
Barium, SPLP	ug/L	8	J				
Beryllium, SPLP	ug/L	0.3	U				
Cadmium, SPLP	ug/L	0.3	U				
Calcium, SPLP	ug/L	2800	=				
Cobalt, SPLP	ug/L	1.7	U				
Copper, SPLP	ug/L	5.1	J				
Iron, SPLP	ug/L	462	=				
Lead, SPLP	ug/L	4.5	J				
Magnesium, SPLP	ug/L	325	=				
Manganese, SPLP	ug/L	4.3	J				
Mercury, SPLP	ug/L	1.2	J				
Nickel, SPLP	ug/L	1	J				
Potassium, SPLP	ug/L	353	U				
Selenium, SPLP	ug/L	2.9	U				
Silver, SPLP	ug/L	2	U				
Sodium, SPLP	ug/L	8330	=				
Thallium, SPLP	ug/L	2.3	U				
Tin (Sn), SPLP	ug/L	29.5	U				
Vanadium, SPLP	ug/L	2.2	J				
Zinc, SPLP	ug/L	19.5	U				
Aluminum	mg/Kg			5890	J	6340	J
Antimony	mg/Kg			0.64	UJ	0.62	UJ
Arsenic	mg/Kg			9.3	=	5.3	=
Barium	mg/Kg			21.2	J	16.3	J
Beryllium	mg/Kg			0.47	J	0.53	=
Cadmium	mg/Kg			0.08	U	0.03	U
Calcium	mg/Kg			20900	J	17700	J
Chromium, Total	mg/Kg			14.2	J	16.1	J
Chromium, Total	ug/L	0.68	J				

	StationID	G643SB016		G643SB016		G643SB017	
	SampleID	643SB01601 (0-1ft)		643SB01602 (3-5ft)		643SB01701 (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	1/6/00		1/6/00		1/6/00	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Aluminum, SPLP	ug/L						
Antimony, SPLP	ug/L						
Arsenic,SPLP	ug/L						
Barium, SPLP	ug/L						
Beryllium, SPLP	ug/L						
Cadmium, SPLP	ug/L						
Calcium, SPLP	ug/L						
Cobalt, SPLP	ug/L						
Copper, SPLP	ug/L						
Iron, SPLP	ug/L						
Lead, SPLP	ug/L						
Magnesium, SPLP	ug/L						
Manganese, SPLP	ug/L						
Mercury, SPLP	ug/L						
Nickel, SPLP	ug/L						
Potassium, SPLP	ug/L						
Selenium, SPLP	ug/L						
Silver, SPLP	ug/L						
Sodium, SPLP	ug/L						
Thallium, SPLP	ug/L						
Tin (Sn), SPLP	ug/L						
Vanadium, SPLP	ug/L						
Zinc, SPLP	ug/L						
Aluminum	mg/Kg	6690	J	6650	J	4790	J
Antimony	mg/Kg	1.3	UJ	0.98	UJ	0.34	UJ
Arsenic	mg/Kg	3.7	=	14.7	=	1.7	=
Barium	mg/Kg	14.8	J	21	J	13.3	J
Beryllium	mg/Kg	0.49	=	0.31	J	0.21	J
Cadmium	mg/Kg	0.51	U	0.14	U	0.13	U
Calcium	mg/Kg	5830	J	3840	J	24600	J
Chromium, Total	mg/Kg	30.3	J	37.7	J	9	J
Chromium, Total	ug/L						

	StationID	G643SB017		G643SB018		G643SB018	
	SampleID	643SB01702 (3-5ft)		643SB01801 (0-1ft)		643SB01802 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	1/6/00		1/17/00		1/6/00	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Aluminum, SPLP	ug/L						
Antimony, SPLP	ug/L						
Arsenic,SPLP	ug/L						
Barium, SPLP	ug/L						
Beryllium, SPLP	ug/L						
Cadmium, SPLP	ug/L						
Calcium, SPLP	ug/L						
Cobalt, SPLP	ug/L						
Copper, SPLP	ug/L						
Iron, SPLP	ug/L						
Lead, SPLP	ug/L						
Magnesium, SPLP	ug/L						
Manganese, SPLP	ug/L						
Mercury, SPLP	ug/L						
Nickel, SPLP	ug/L						
Potassium, SPLP	ug/L						
Selenium, SPLP	ug/L						
Silver, SPLP	ug/L						
Sodium, SPLP	ug/L						
Thallium, SPLP	ug/L						
Tin (Sn), SPLP	ug/L						
Vanadium, SPLP	ug/L						
Zinc, SPLP	ug/L						
Aluminum	mg/Kg	3880	J	5550	J	2230	J
Antimony	mg/Kg	0.31	UJ	1.5	UJ	0.47	UJ
Arsenic	mg/Kg	3.7	=	7.1	=	2.6	=
Barium	mg/Kg	9.3	J	27.3	J	5.9	J
Beryllium	mg/Kg	0.34	J	0.4	J	0.29	J
Cadmium	mg/Kg	0.03	U	0.23	U	0.2	U
Calcium	mg/Kg	9060	J	13600	J	4570	J
Chromium, Total	mg/Kg	9.2	J	22.5	J	7	J
Chromium, Total	ug/L						

	StationID	G643SB019		G643SB019		G643SB020	
	SampleID	643SB01901 (0-1ft)		643SB01902 (3-5ft)		643SB02001 (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	1/6/00		1/6/00		1/6/00	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Aluminum, SPLP	ug/L						
Antimony, SPLP	ug/L						
Arsenic,SPLP	ug/L						
Barium, SPLP	ug/L						
Beryllium, SPLP	ug/L						
Cadmium, SPLP	ug/L						
Calcium, SPLP	ug/L						
Cobalt, SPLP	ug/L						
Copper, SPLP	ug/L						
Iron, SPLP	ug/L						
Lead, SPLP	ug/L						
Magnesium, SPLP	ug/L						
Manganese, SPLP	ug/L						
Mercury, SPLP	ug/L						
Nickel, SPLP	ug/L						
Potassium, SPLP	ug/L						
Selenium, SPLP	ug/L						
Silver, SPLP	ug/L						
Sodium, SPLP	ug/L						
Thallium, SPLP	ug/L						
Tin (Sn), SPLP	ug/L						
Vanadium, SPLP	ug/L						
Zinc, SPLP	ug/L						
Aluminum	mg/Kg	5430	J	3660	J	3540	J
Antimony	mg/Kg	1.5	UJ	0.45	UJ	0.6	UJ
Arsenic	mg/Kg	19	=	3	=	14	=
Barium	mg/Kg	198	J	10.4	J	11.4	J
Beryllium	mg/Kg	0.46	=	0.33	J	0.32	J
Cadmium	mg/Kg	0.42	U	0.03	U	0.08	U
Calcium	mg/Kg	41300	J	4580	J	13100	J
Chromium, Total	mg/Kg	37.3	J	9.3	J	9.5	J
Chromium, Total	ug/L						

	StationID	G643SB020		G643SB021		G643SB021	
	SampleID	643SB02002 (3-5ft)		643SB02101 (0-1ft)		643SB02102 (3-5ft)	
	DateCollected	12/17/1999		01/25/2000		01/25/2000	
	DateAnalyzed	1/6/00		1/31/00		1/31/00	
	SDGNumber	EN037		41852		41852	
Parameter	**Units**						
Aluminum, SPLP	ug/L						
Antimony, SPLP	ug/L						
Arsenic,SPLP	ug/L						
Barium, SPLP	ug/L						
Beryllium, SPLP	ug/L						
Cadmium, SPLP	ug/L						
Calcium, SPLP	ug/L						
Cobalt, SPLP	ug/L						
Copper, SPLP	ug/L						
Iron, SPLP	ug/L						
Lead, SPLP	ug/L						
Magnesium, SPLP	ug/L						
Manganese, SPLP	ug/L						
Mercury, SPLP	ug/L						
Nickel, SPLP	ug/L						
Potassium, SPLP	ug/L						
Selenium, SPLP	ug/L						
Silver, SPLP	ug/L						
Sodium, SPLP	ug/L						
Thallium, SPLP	ug/L						
Tin (Sn), SPLP	ug/L						
Vanadium, SPLP	ug/L						
Zinc, SPLP	ug/L						
Aluminum	mg/Kg	5080	J	5150	=	3670	=
Antimony	mg/Kg	0.43	UJ	0.33	UJ	0.32	UJ
Arsenic	mg/Kg	5.6	=	1.8	J	1.5	J
Barium	mg/Kg	8.1	J	13.4	=	10.9	=
Beryllium	mg/Kg	0.47	J	0.26	J	0.23	J
Cadmium	mg/Kg	0.03	U	0.32	U	0.21	U
Calcium	mg/Kg	5840	J	13100	=	23200	=
Chromium, Total	mg/Kg	12.1	J	10.4	=	10.9	=
Chromium, Total	ug/L						

	StationID	G643SB022		G643SB022		G643SB023	
	SampleID	643SB02201 (0-1ft)		643SB02202 (3-5ft)		643SB02301 (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	1/6/00		1/6/00		1/6/00	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Aluminum, SPLP	ug/L						
Antimony, SPLP	ug/L						
Arsenic,SPLP	ug/L						
Barium, SPLP	ug/L						
Beryllium, SPLP	ug/L						
Cadmium, SPLP	ug/L						
Calcium, SPLP	ug/L						
Cobalt, SPLP	ug/L						
Copper, SPLP	ug/L						
Iron, SPLP	ug/L						
Lead, SPLP	ug/L						
Magnesium, SPLP	ug/L						
Manganese, SPLP	ug/L						
Mercury, SPLP	ug/L						
Nickel, SPLP	ug/L						
Potassium, SPLP	ug/L						
Selenium, SPLP	ug/L						
Silver, SPLP	ug/L						
Sodium, SPLP	ug/L						
Thallium, SPLP	ug/L						
Tin (Sn), SPLP	ug/L						
Vanadium, SPLP	ug/L						
Zinc, SPLP	ug/L						
Aluminum	mg/Kg	9980	J	6780	J	7870	J
Antimony	mg/Kg	0.93	UJ	0.8	UJ	0.87	UJ
Arsenic	mg/Kg	9.6	=	5.1	=	24.3	=
Barium	mg/Kg	25.1	J	9.3	J	21.1	J
Beryllium	mg/Kg	0.61	=	0.37	J	0.65	=
Cadmium	mg/Kg	0.27	U	0.29	U	0.41	U
Calcium	mg/Kg	44600	J	93100	J	35600	J
Chromium, Total	mg/Kg	21.8	J	23.4	J	22.9	J
Chromium, Total	ug/L						

	StationID	G643SB023		G643SB024		G643SB024	
	SampleID	643SB02302 (3-5ft)		643SB024S1 (0-1ft)		643SB024S2 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	1/6/00		1/4/00		1/4/00	
	SDGNumber	EN037		EN035		EN035	
Parameter	**Units**						
Aluminum, SPLP	ug/L			2050	=	2190	=
Antimony, SPLP	ug/L			2.4	U	2.4	U
Arsenic,SPLP	ug/L			7	J	3.9	J
Barium, SPLP	ug/L			519	=	302	=
Beryllium, SPLP	ug/L			0.9	J	0.9	J
Cadmium, SPLP	ug/L			3.1	U	2.3	U
Calcium, SPLP	ug/L			12400	=	11600	=
Cobalt, SPLP	ug/L			0.5	UJ	0.5	UJ
Copper, SPLP	ug/L			3.8	J	1.1	J
Iron, SPLP	ug/L			1820	=	2360	=
Lead, SPLP	ug/L			6.6	J	2.1	U
Magnesium, SPLP	ug/L			613	J	593	J
Manganese, SPLP	ug/L			6.2	J	8.4	J
Mercury, SPLP	ug/L			0.2	U	0.2	U
Nickel, SPLP	ug/L			2.8	J	1.9	J
Potassium, SPLP	ug/L			156	J	174	J
Selenium, SPLP	ug/L			1.7	UJ	1.7	UJ
Silver, SPLP	ug/L			0.5	U	0.5	U
Sodium, SPLP	ug/L			4460	J	4320	J
Thallium, SPLP	ug/L			2.4	UJ	2.4	UJ
Tin (Sn), SPLP	ug/L			2.7	U	2.7	U
Vanadium, SPLP	ug/L			154	=	8.7	J
Zinc, SPLP	ug/L			33.1	=	22.2	=
Aluminum	mg/Kg	6780	J				
Antimony	mg/Kg	0.65	UJ				
Arsenic	mg/Kg	8.5	=				
Barium	mg/Kg	11	J				
Beryllium	mg/Kg	0.48	J				
Cadmium	mg/Kg	0.03	U				
Calcium	mg/Kg	20300	J				
Chromium, Total	mg/Kg	18.1	J				
Chromium, Total	ug/L			4.6	J	4.6	J

	StationID	G643SB024		G643SB024		G643SB025	
	SampleID	643SB024T1 (0-1ft)		643SB024T2 (3-5ft)		643SB02501 (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		01/25/2000	
	DateAnalyzed	1/6/00		1/6/00		1/31/00	
	SDGNumber	EN037		EN037		41852	
Parameter	**Units**						
Aluminum, SPLP	ug/L						
Antimony, SPLP	ug/L						
Arsenic,SPLP	ug/L						
Barium, SPLP	ug/L						
Beryllium, SPLP	ug/L						
Cadmium, SPLP	ug/L						
Calcium, SPLP	ug/L						
Cobalt, SPLP	ug/L						
Copper, SPLP	ug/L						
Iron, SPLP	ug/L						
Lead, SPLP	ug/L						
Magnesium, SPLP	ug/L						
Manganese, SPLP	ug/L						
Mercury, SPLP	ug/L						
Nickel, SPLP	ug/L						
Potassium, SPLP	ug/L						
Selenium, SPLP	ug/L						
Silver, SPLP	ug/L						
Sodium, SPLP	ug/L						
Thallium, SPLP	ug/L						
Tin (Sn), SPLP	ug/L						
Vanadium, SPLP	ug/L						
Zinc, SPLP	ug/L						
Aluminum	mg/Kg	5030	J	4860	J	4490	=
Antimony	mg/Kg	0.71	UJ	0.57	UJ	0.31	UJ
Arsenic	mg/Kg	4.9	=	3.8	=	3.8	=
Barium	mg/Kg	18.8	J	9.6	J	43.3	=
Beryllium	mg/Kg	0.43	J	0.38	J	0.31	J
Cadmium	mg/Kg	0.03	U	0.03	U	1.1	J
Calcium	mg/Kg	7940	J	8520	J	27100	=
Chromium, Total	mg/Kg	16.3	J	12.1	J	28.6	=
Chromium, Total	ug/L						

	StationID	G643SB025		G643SB026		G643SB026	
	SampleID	643SB02502 (3-5ft)		643SB02601 (0-1ft)		643SB02602 (3-5ft)	
	DateCollected	01/25/2000		01/25/2000		01/25/2000	
	DateAnalyzed	1/31/00		1/31/00		1/31/00	
	SDGNumber	41852		41852		41852	
Parameter	**Units**						
Aluminum, SPLP	ug/L						
Antimony, SPLP	ug/L						
Arsenic,SPLP	ug/L						
Barium, SPLP	ug/L						
Beryllium, SPLP	ug/L						
Cadmium, SPLP	ug/L						
Calcium, SPLP	ug/L						
Cobalt, SPLP	ug/L						
Copper, SPLP	ug/L						
Iron, SPLP	ug/L						
Lead, SPLP	ug/L						
Magnesium, SPLP	ug/L						
Manganese, SPLP	ug/L						
Mercury, SPLP	ug/L						
Nickel, SPLP	ug/L						
Potassium, SPLP	ug/L						
Selenium, SPLP	ug/L						
Silver, SPLP	ug/L						
Sodium, SPLP	ug/L						
Thallium, SPLP	ug/L						
Tin (Sn), SPLP	ug/L						
Vanadium, SPLP	ug/L						
Zinc, SPLP	ug/L						
Aluminum	mg/Kg	26400	=	4530	=	2860	=
Antimony	mg/Kg	0.46	UJ	0.33	UJ	0.33	UJ
Arsenic	mg/Kg	13	=	1.6	J	3.1	=
Barium	mg/Kg	29.2	=	12.3	=	8	=
Beryllium	mg/Kg	1.4	=	0.24	J	0.23	J
Cadmium	mg/Kg	1.2	J	0.27	U	0.25	U
Calcium	mg/Kg	7620	=	13700	=	24200	=
Chromium, Total	mg/Kg	45	=	7.5	=	9.5	=
Chromium, Total	ug/L						

	StationID	G643SB027		G643SB027	
	SampleID	643SB02701 (0-1ft)		643SB02702 (3-5ft)	
	DateCollected	01/25/2000		01/25/2000	
	DateAnalyzed	1/31/00		1/31/00	
	SDGNumber	41852		41852	
Parameter	**Units**				
Aluminum, SPLP	ug/L				
Antimony, SPLP	ug/L				
Arsenic,SPLP	ug/L				
Barium, SPLP	ug/L				
Beryllium, SPLP	ug/L				
Cadmium, SPLP	ug/L				
Calcium, SPLP	ug/L				
Cobalt, SPLP	ug/L				
Copper, SPLP	ug/L				
Iron, SPLP	ug/L				
Lead, SPLP	ug/L				
Magnesium, SPLP	ug/L				
Manganese, SPLP	ug/L				
Mercury, SPLP	ug/L				
Nickel, SPLP	ug/L				
Potassium, SPLP	ug/L				
Selenium, SPLP	ug/L				
Silver, SPLP	ug/L				
Sodium, SPLP	ug/L				
Thallium, SPLP	ug/L				
Tin (Sn), SPLP	ug/L				
Vanadium, SPLP	ug/L				
Zinc, SPLP	ug/L				
Aluminum	mg/Kg	4020	=	5020	=
Antimony	mg/Kg	0.32	UJ	0.38	UJ
Arsenic	mg/Kg	3.3	=	4.8	=
Barium	mg/Kg	10.1	=	8.9	=
Beryllium	mg/Kg	0.29	J	0.39	J
Cadmium	mg/Kg	0.31	U	0.42	U
Calcium	mg/Kg	27000	=	6160	=
Chromium, Total	mg/Kg	12.4	=	12.2	=
Chromium, Total	ug/L				

	StationID	G643SB009		G643SB010		G643SB013	
	SampleID	643CB00901 (0-1ft)		643CB01001 (0-1ft)		643SB01302 (3-5ft)	
	DateCollected	01/08/1997		01/08/1997		07/29/1999	
	DateAnalyzed	1/14/97		1/14/97			
	SDGNumber	28114		28114		39715	
Parameter	**Units**						
Cobalt	mg/Kg	0.73	J	1.5	J	2.2	J
Copper	mg/Kg	5.5	=	22.5	=	59.5	=
Iron	mg/Kg	4140	=	5530	=	10100	=
Lead	mg/Kg	9.1	=	94.6	=	76.6	=
Magnesium	mg/Kg	664	=	2860	=	1760	=
Manganese	mg/Kg	30.9	=	184	=	113	=
Mercury	mg/Kg	0.09	=	0.14	=	0.03	J
Nickel	mg/Kg	3.6	J	16.8	=	8	=
Potassium	mg/Kg	260	J	761	=	520	=
Selenium	mg/Kg	0.34	U	0.86	=	0.53	U
Silver	mg/Kg	0.22	U	0.21	U	0.19	U
Sodium	mg/Kg	266	=	623	=	614	=
Thallium	mg/Kg	0.39	U	0.38	U	0.6	J
Tin (Sn)	mg/Kg	0.92	J	2.4	J	16.6	J
Vanadium	mg/Kg	12.2	=	51.5	=	18.4	=
Zinc	mg/Kg	24.1	=	155	=	195	=

	StationID	G643SB013		G643SB015		G643SB015	
	SampleID	643SB01302 (3-5ft)		643SB01501 (0-1ft)		643SB01502 (3-5ft)	
	DateCollected	07/29/1999		12/17/1999		12/17/1999	
	DateAnalyzed	8/4/99		1/6/00		1/6/00	
	SDGNumber	39715		EN037		EN037	
Parameter	**Units**						
Cobalt	mg/Kg			2.2	J	2.3	J
Copper	mg/Kg			11	J	8.7	J
Iron	mg/Kg			8590	J	8050	J
Lead	mg/Kg			16.3	J	13.1	J
Magnesium	mg/Kg			1130	J	1240	J
Manganese	mg/Kg			74.2	J	67.2	J
Mercury	mg/Kg			0.04	U	0.05	U
Nickel	mg/Kg			6.6	J	5.4	J
Potassium	mg/Kg			595	=	707	=
Selenium	mg/Kg			0.8	J	0.69	J
Silver	mg/Kg			0.05	U	0.05	U
Sodium	mg/Kg			196	J	215	J
Thallium	mg/Kg			0.23	U	0.23	U
Tin (Sn)	mg/Kg			3.5	U	3.3	U
Vanadium	mg/Kg			20.4	J	18.3	J
Zinc	mg/Kg			34	J	32.4	J

	StationID	G643SB016		G643SB016		G643SB017	
	SampleID	643SB01601 (0-1ft)		643SB01602 (3-5ft)		643SB01701 (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	1/6/00		1/6/00		1/6/00	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Cobalt	mg/Kg	1.5	J	1.3	J	9.9	=
Copper	mg/Kg	27.4	J	25.4	J	3.7	J
Iron	mg/Kg	4310	J	6660	J	3140	J
Lead	mg/Kg	77.6	J	34.5	J	10.7	J
Magnesium	mg/Kg	693	J	933	J	735	J
Manganese	mg/Kg	42.9	J	53.8	J	28.9	J
Mercury	mg/Kg	0.72	=	0.07	=	0.05	U
Nickel	mg/Kg	27	J	8	J	3.6	J
Potassium	mg/Kg	260	J	229	J	321	J
Selenium	mg/Kg	0.6	J	0.65	J	0.37	J
Silver	mg/Kg	0.04	U	0.05	U	0.04	U
Sodium	mg/Kg	115	J	127	J	250	J
Thallium	mg/Kg	0.2	U	0.23	U	0.21	U
Tin (Sn)	mg/Kg	4.2	U	3.3	U	3.1	U
Vanadium	mg/Kg	185	J	63.9	J	8.9	J
Zinc	mg/Kg	118	J	101	J	20.7	J

	StationID	G643SB017		G643SB018		G643SB018	
	SampleID	643SB01702 (3-5ft)		643SB01801 (0-1ft)		643SB01802 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	1/6/00		1/17/00		1/6/00	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Cobalt	mg/Kg	3.6	J	2.1	J	0.69	J
Copper	mg/Kg	2	J	37.4	J	2.2	J
Iron	mg/Kg	6000	J	8300	J	3510	J
Lead	mg/Kg	5	J	272	J	10.2	J
Magnesium	mg/Kg	933	J	1210	J	431	J
Manganese	mg/Kg	60.3	J	73.3	J	17.1	J
Mercury	mg/Kg	0.05	U	0.13	=	0.04	U
Nickel	mg/Kg	2.8	J	15.4	J	2.1	J
Potassium	mg/Kg	487	J	491	=	187	J
Selenium	mg/Kg	0.62	J	1.1	=	0.42	J
Silver	mg/Kg	0.05	U	0.05	U	0.05	U
Sodium	mg/Kg	219	J	215	J	94.4	J
Thallium	mg/Kg	0.25	U	0.22	U	0.23	U
Tin (Sn)	mg/Kg	3.2	U	11.1	U	3	U
Vanadium	mg/Kg	10.1	J	74.4	J	8.4	J
Zinc	mg/Kg	13.7	J	146	J	17.9	J

	StationID	G643SB019		G643SB019		G643SB020	
	SampleID	643SB01901 (0-1ft)		643SB01902 (3-5ft)		643SB02001 (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	1/6/00		1/6/00		1/6/00	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Cobalt	mg/Kg	1.7	J	1.3	J	11.5	=
Copper	mg/Kg	18.3	J	1.4	J	4.9	J
Iron	mg/Kg	5690	J	5120	J	4440	J
Lead	mg/Kg	70.4	J	4.7	J	10	J
Magnesium	mg/Kg	1540	J	633	J	722	J
Manganese	mg/Kg	180	J	35	J	35.3	J
Mercury	mg/Kg	0.06	=	0.06	U	0.05	U
Nickel	mg/Kg	11.4	J	3.1	J	4	J
Potassium	mg/Kg	628	=	346	J	332	J
Selenium	mg/Kg	0.81	J	0.53	J	0.46	J
Silver	mg/Kg	0.04	U	0.06	U	0.05	U
Sodium	mg/Kg	492	=	134	J	155	J
Thallium	mg/Kg	0.21	U	0.27	U	0.24	U
Tin (Sn)	mg/Kg	3.8	U	3.6	U	3.2	U
Vanadium	mg/Kg	36.9	J	10.3	J	10	J
Zinc	mg/Kg	71.5	J	11.2	J	17.7	J

	StationID	G643SB020		G643SB021		G643SB021	
	SampleID	643SB02002 (3-5ft)		643SB02101 (0-1ft)		643SB02102 (3-5ft)	
	DateCollected	12/17/1999		01/25/2000		01/25/2000	
	DateAnalyzed	1/6/00		1/31/00		1/31/00	
	SDGNumber	EN037		41852		41852	
Parameter	**Units**						
Cobalt	mg/Kg	2	J	32.7	=	20.4	=
Copper	mg/Kg	2.1	J	10.5	=	4.8	J
Iron	mg/Kg	8290	J	3930	=	2850	=
Lead	mg/Kg	4.9	J	19.4	=	8.9	=
Magnesium	mg/Kg	1410	J	611	=	835	=
Manganese	mg/Kg	73.8	J	31.5	=	30.5	=
Mercury	mg/Kg	0.05	U	0.02	UJ	0.02	UJ
Nickel	mg/Kg	3.4	J	4.4	J	3.5	J
Potassium	mg/Kg	708	=	290	J	311	=
Selenium	mg/Kg	0.72	J	0.59	J	0.39	U
Silver	mg/Kg	0.05	U	0.6	U	0.49	U
Sodium	mg/Kg	182	J	385	=	458	=
Thallium	mg/Kg	0.25	U	0.41	U	0.41	U
Tin (Sn)	mg/Kg	3.3	U	9.7	U	4.6	U
Vanadium	mg/Kg	14.2	J	15	=	8.2	=
Zinc	mg/Kg	14.2	J	37.2	J	21.8	J

	StationID	G643SB022		G643SB022		G643SB023	
	SampleID	643SB02201 (0-1ft)		643SB02202 (3-5ft)		643SB02301 (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	1/6/00		1/6/00		1/6/00	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Cobalt	mg/Kg	2.8	J	1.7	J	2.5	J
Copper	mg/Kg	6.3	J	5.5	J	67.5	J
Iron	mg/Kg	9450	J	6450	J	8010	J
Lead	mg/Kg	6.3	J	4	J	65.7	J
Magnesium	mg/Kg	1520	J	2400	J	2230	J
Manganese	mg/Kg	123	J	89.4	J	62.5	J
Mercury	mg/Kg	0.05	U	0.05	U	0.04	=
Nickel	mg/Kg	9.1	J	9.2	J	13.7	J
Potassium	mg/Kg	858	=	880	=	891	=
Selenium	mg/Kg	0.92	J	0.89	J	0.8	J
Silver	mg/Kg	0.05	U	0.05	U	0.05	U
Sodium	mg/Kg	764	=	548	=	491	=
Thallium	mg/Kg	0.23	U	0.26	U	0.23	U
Tin (Sn)	mg/Kg	3.3	U	3.7	U	7.2	U
Vanadium	mg/Kg	23.5	J	17.5	J	112	J
Zinc	mg/Kg	24.4	J	25.5	J	84.5	J

	StationID	G643SB023		G643SB024		G643SB024	
	SampleID	643SB02302 (3-5ft)		643SB024S1 (0-1ft)		643SB024S2 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	1/6/00		1/4/00		1/4/00	
	SDGNumber	EN037		EN035		EN035	
Parameter	**Units**						
Cobalt	mg/Kg	2	J				
Copper	mg/Kg	6.8	J				
Iron	mg/Kg	9920	J				
Lead	mg/Kg	9.7	J				
Magnesium	mg/Kg	1530	J				
Manganese	mg/Kg	48.2	J				
Mercury	mg/Kg	0.05	U				
Nickel	mg/Kg	6.2	J				
Potassium	mg/Kg	781	=				
Selenium	mg/Kg	0.76	J				
Silver	mg/Kg	0.05	U				
Sodium	mg/Kg	224	J				
Thallium	mg/Kg	0.24	U				
Tin (Sn)	mg/Kg	3.9	U				
Vanadium	mg/Kg	26.6	J				
Zinc	mg/Kg	46.8	J				

	StationID	G643SB024		G643SB024		G643SB025	
	SampleID	643SB024T1 (0-1ft)		643SB024T2 (3-5ft)		643SB02501 (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		01/25/2000	
	DateAnalyzed	1/6/00		1/6/00		1/31/00	
	SDGNumber	EN037		EN037		41852	
Parameter	**Units**						
Cobalt	mg/Kg	2.2	J	1.5	J	2	J
Copper	mg/Kg	18.6	J	4.9	J	61.4	=
Iron	mg/Kg	8930	J	6230	J	6680	=
Lead	mg/Kg	92.8	J	13.3	J	307	=
Magnesium	mg/Kg	828	J	886	J	1080	=
Manganese	mg/Kg	58	J	44.3	J	76.4	=
Mercury	mg/Kg	0.04	=	0.04	U	0.07	J
Nickel	mg/Kg	8.9	J	5.9	J	13.2	=
Potassium	mg/Kg	395	J	397	J	292	=
Selenium	mg/Kg	0.79	J	0.67	J	0.38	U
Silver	mg/Kg	0.05	U	0.05	U	0.32	U
Sodium	mg/Kg	154	J	151	J	323	J
Thallium	mg/Kg	0.22	U	0.24	U	0.39	U
Tin (Sn)	mg/Kg	4.4	U	3.3	U	7.2	U
Vanadium	mg/Kg	38.6	J	20.2	J	28.9	=
Zinc	mg/Kg	42.9	J	22.1	J	183	J

	StationID	G643SB025		G643SB026		G643SB026	
	SampleID	643SB02502 (3-5ft)		643SB02601 (0-1ft)		643SB02602 (3-5ft)	
	DateCollected	01/25/2000		01/25/2000		01/25/2000	
	DateAnalyzed	1/31/00		1/31/00		1/31/00	
	SDGNumber	41852		41852		41852	
Parameter	**Units**						
Cobalt	mg/Kg	5.7	=	12.7	=	1	J
Copper	mg/Kg	7	J	5.3	J	4.6	J
Iron	mg/Kg	26100	=	3530	=	3200	=
Lead	mg/Kg	11.6	=	14.2	=	10.8	=
Magnesium	mg/Kg	4200	=	480	=	1000	=
Manganese	mg/Kg	188	=	32.9	=	38.9	=
Mercury	mg/Kg	0.03	UJ	0.02	UJ	0.02	UJ
Nickel	mg/Kg	12.5	=	4.3	J	3.9	J
Potassium	mg/Kg	2050	=	190	J	297	J
Selenium	mg/Kg	0.56	U	0.41	U	0.4	U
Silver	mg/Kg	0.2	U	0.59	U	0.19	U
Sodium	mg/Kg	656	=	338	J	457	=
Thallium	mg/Kg	1	J	0.42	U	0.41	U
Tin (Sn)	mg/Kg	7.1	U	4.7	U	4.5	U
Vanadium	mg/Kg	50.4	=	17.2	=	7.3	=
Zinc	mg/Kg	43.9	J	17.9	J	25.6	J

	StationID	G643SB027		G643SB027	
	SampleID	643SB02701 (0-1ft)		643SB02702 (3-5ft)	
	DateCollected	01/25/2000		01/25/2000	
	DateAnalyzed	1/31/00		1/31/00	
	SDGNumber	41852		41852	
Parameter	**Units**				
Cobalt	mg/Kg	7.9	=	3	J
Copper	mg/Kg	6.1	=	2.3	J
Iron	mg/Kg	4420	=	7250	=
Lead	mg/Kg	12.6	=	4.5	=
Magnesium	mg/Kg	930	=	1210	=
Manganese	mg/Kg	47	=	59.9	=
Mercury	mg/Kg	0.02	UJ	0.02	UJ
Nickel	mg/Kg	4	J	3.2	J
Potassium	mg/Kg	327	=	571	=
Selenium	mg/Kg	0.4	U	0.47	U
Silver	mg/Kg	0.26	U	0.33	U
Sodium	mg/Kg	449	=	493	=
Thallium	mg/Kg	0.41	U	0.48	U
Tin (Sn)	mg/Kg	4.6	U	6.2	U
Vanadium	mg/Kg	10.7	=	12.3	=
Zinc	mg/Kg	24.3	J	16.7	J

	StationID	G643SB007		G643SB007		G643SB007	
	SampleID	643SB007P1 (0-1ft)		643SB007P1 (0-1ft)		643SB007P1 (0-1ft)	
	DateCollected	01/28/1997		01/28/1997		01/28/1997	
	DateAnalyzed	2/5/97		2/14/97		2/22/97	
	SDGNumber	28298		28298		28298	
Parameter	**Units**						
Cation Exchange Capacity	MEQ/1					29.4	=
Chromium (Hexavalent)	mg/Kg						
pH	SU			8.05	=		
Total Organic Carbon	%, DR						
Total Organic Carbon	mg/Kg	2980	=				

	StationID	G643SB009		G643SB010		G643SB013	
	SampleID	643CB00901 (0-1ft)		643CB01001 (0-1ft)		643SB01302 (3-5ft)	
	DateCollected	01/08/1997		01/08/1997		07/29/1999	
	DateAnalyzed	1/10/97		1/10/97		9/27/99	
	SDGNumber	28114		28114		39715	
Parameter	**Units**						
Cation Exchange Capacity	MEQ/1						
Chromium (Hexavalent)	mg/Kg	0.286	U	0.282	U		
pH	SU						
Total Organic Carbon	%, DR						
Total Organic Carbon	mg/Kg					17200	=

	StationID	G643SB015		G643SB015		G643SB016	
	SampleID	643SB01501 (0-1ft)		643SB01502 (3-5ft)		643SB01601 (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	1/14/00		1/14/00		1/14/00	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Cation Exchange Capacity	MEQ/1						
Chromium (Hexavalent)	mg/Kg						
pH	SU						
Total Organic Carbon	%, DR	0.4	J	1.7	J	1.1	J
Total Organic Carbon	mg/Kg						

	StationID	G643SB016		G643SB017		G643SB017	
	SampleID	643SB01602 (3-5ft)		643SB01701 (0-1ft)		643SB01702 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	1/14/00		1/14/00		1/14/00	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Cation Exchange Capacity	MEQ/1						
Chromium (Hexavalent)	mg/Kg						
pH	SU						
Total Organic Carbon	%, DR	0.7	J	0.7	J	0.9	J
Total Organic Carbon	mg/Kg						

	StationID	G643SB018		G643SB018		G643SB019	
	SampleID	643SB01801 (0-1ft)		643SB01802 (3-5ft)		643SB01901 (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	1/14/00		1/14/00		1/14/00	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Cation Exchange Capacity	MEQ/1						
Chromium (Hexavalent)	mg/Kg						
pH	SU						
Total Organic Carbon	%, DR	2	J	1.5	J	2.2	J
Total Organic Carbon	mg/Kg						

	StationID	G643SB019		G643SB020		G643SB020	
	SampleID	643SB01902 (3-5ft)		643SB02001 (0-1ft)		643SB02002 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	1/14/00		1/14/00		1/14/00	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Cation Exchange Capacity	MEQ/1						
Chromium (Hexavalent)	mg/Kg						
pH	SU						
Total Organic Carbon	%, DR	0.8	J	1.1	J	0.8	J
Total Organic Carbon	mg/Kg						

	StationID	G643SB022		G643SB022		G643SB023	
	SampleID	643SB02201 (0-1ft)		643SB02202 (3-5ft)		643SB02301 (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	1/14/00		1/14/00		1/14/00	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Cation Exchange Capacity	MEQ/1						
Chromium (Hexavalent)	mg/Kg						
pH	SU						
Total Organic Carbon	%, DR	0.6	J	0.6	J	1.9	J
Total Organic Carbon	mg/Kg						

	StationID	G643SB023		G643SB024		G643SB024	
	SampleID	643SB02302 (3-5ft)		643SB02401 (0-1ft)		643SB02402 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	1/14/00		1/14/00		1/14/00	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Cation Exchange Capacity	MEQ/1						
Chromium (Hexavalent)	mg/Kg						
pH	SU						
Total Organic Carbon	%, DR	1	J	1.6	J	0.4	J
Total Organic Carbon	mg/Kg						

	StationID	G643SB008		G643SB008		G643SB008	
	SampleID	643SB00801 (0-1ft)		643SB00801DL (0-1ft)		643SB00802 (3-5ft)	
	DateCollected	01/10/1997		01/10/1997		01/10/1997	
	DateAnalyzed	1/22/97		1/22/97		1/22/97	
	SDGNumber	28146		28146		28146	
Parameter	**Units**						
PCB-1016 (Arochlor 1016), SPLP	ug/L						
PCB-1221 (Arochlor 1221), SPLP	ug/L						
PCB-1232 (Arochlor 1232), SPLP	ug/L						
PCB-1242 (Arochlor 1242), SPLP	ug/L						
PCB-1248 (Arochlor 1248), SPLP	ug/L						
PCB-1254 (Arochlor 1254), SPLP	ug/L						
PCB-1260 (Arochlor 1260), SPLP	ug/L						
PCB-1016 (Arochlor 1016)	ug/Kg	38	U	190	R	49	U
PCB-1221 (Arochlor 1221)	ug/Kg	38	U	190	R	49	U
PCB-1232 (Arochlor 1232)	ug/Kg	38	U	190	R	49	U
PCB-1242 (Arochlor 1242)	ug/Kg	38	U	190	R	49	U
PCB-1248 (Arochlor 1248)	ug/Kg	38	U	190	R	49	U
PCB-1254 (Arochlor 1254)	ug/Kg	78	U	390	R	100	U
PCB-1260 (Arochlor 1260)	ug/Kg	110	=	130	R	100	U

	StationID	G643SB009		G643SB009		G643SB009	
	SampleID	643CB00901 (0-1ft)		643CB00901DL (0-1ft)		643SB00901 (0-1ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/21/97		1/22/97		1/21/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
PCB-1016 (Arochlor 1016), SPLP	ug/L						
PCB-1221 (Arochlor 1221), SPLP	ug/L						
PCB-1232 (Arochlor 1232), SPLP	ug/L						
PCB-1242 (Arochlor 1242), SPLP	ug/L						
PCB-1248 (Arochlor 1248), SPLP	ug/L						
PCB-1254 (Arochlor 1254), SPLP	ug/L						
PCB-1260 (Arochlor 1260), SPLP	ug/L						
PCB-1016 (Arochlor 1016)	ug/Kg	38	U	190	R	37	U
PCB-1221 (Arochlor 1221)	ug/Kg	38	U	190	R	37	U
PCB-1232 (Arochlor 1232)	ug/Kg	38	U	190	R	37	U
PCB-1242 (Arochlor 1242)	ug/Kg	38	U	190	R	37	U
PCB-1248 (Arochlor 1248)	ug/Kg	38	U	190	R	37	U
PCB-1254 (Arochlor 1254)	ug/Kg	76	U	380	R	74	U
PCB-1260 (Arochlor 1260)	ug/Kg	140	J	130	R	120	=

	StationID	G643SB009		G643SB009		G643SB010	
	SampleID	643SB00901DL (0-1ft)		643SB00902 (3-5ft)		643CB01001 (0-1ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/21/97		1/21/97		1/21/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
PCB-1016 (Arochlor 1016), SPLP	ug/L						
PCB-1221 (Arochlor 1221), SPLP	ug/L						
PCB-1232 (Arochlor 1232), SPLP	ug/L						
PCB-1242 (Arochlor 1242), SPLP	ug/L						
PCB-1248 (Arochlor 1248), SPLP	ug/L						
PCB-1254 (Arochlor 1254), SPLP	ug/L						
PCB-1260 (Arochlor 1260), SPLP	ug/L						
PCB-1016 (Arochlor 1016)	ug/Kg	73	R	41	U	37	U
PCB-1221 (Arochlor 1221)	ug/Kg	73	R	41	U	37	U
PCB-1232 (Arochlor 1232)	ug/Kg	73	R	41	U	37	U
PCB-1242 (Arochlor 1242)	ug/Kg	73	R	41	U	37	U
PCB-1248 (Arochlor 1248)	ug/Kg	73	R	41	U	37	U
PCB-1254 (Arochlor 1254)	ug/Kg	150	R	83	U	75	U
PCB-1260 (Arochlor 1260)	ug/Kg	150	R	170	=	140	J

	StationID	G643SB010		G643SB010		G643SB010	
	SampleID	643CB01001DL (0-1ft)		643SB01001 (0-1ft)		643SB01001DL (0-1ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/21/97		1/21/97		1/22/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
PCB-1016 (Arochlor 1016), SPLP	ug/L						
PCB-1221 (Arochlor 1221), SPLP	ug/L						
PCB-1232 (Arochlor 1232), SPLP	ug/L						
PCB-1242 (Arochlor 1242), SPLP	ug/L						
PCB-1248 (Arochlor 1248), SPLP	ug/L						
PCB-1254 (Arochlor 1254), SPLP	ug/L						
PCB-1260 (Arochlor 1260), SPLP	ug/L						
PCB-1016 (Arochlor 1016)	ug/Kg	74	R	38	U	190	R
PCB-1221 (Arochlor 1221)	ug/Kg	74	R	38	U	190	R
PCB-1232 (Arochlor 1232)	ug/Kg	74	R	38	U	190	R
PCB-1242 (Arochlor 1242)	ug/Kg	74	R	38	U	190	R
PCB-1248 (Arochlor 1248)	ug/Kg	74	R	38	U	190	R
PCB-1254 (Arochlor 1254)	ug/Kg	150	R	78	U	390	R
PCB-1260 (Arochlor 1260)	ug/Kg	160	R	2200	J	2200	R

	StationID	G643SB010		G643SB010		G643SB011	
	SampleID	643SB01002 (3-5ft)		643SB01002RE (3-5ft)		643SB01101 (0-1ft)	
	DateCollected	01/08/1997		01/08/1997		01/10/1997	
	DateAnalyzed	1/21/97		1/22/97		1/22/97	
	SDGNumber	28114		28114		28146	
Parameter	**Units**						
PCB-1016 (Arochlor 1016), SPLP	ug/L						
PCB-1221 (Arochlor 1221), SPLP	ug/L						
PCB-1232 (Arochlor 1232), SPLP	ug/L						
PCB-1242 (Arochlor 1242), SPLP	ug/L						
PCB-1248 (Arochlor 1248), SPLP	ug/L						
PCB-1254 (Arochlor 1254), SPLP	ug/L						
PCB-1260 (Arochlor 1260), SPLP	ug/L						
PCB-1016 (Arochlor 1016)	ug/Kg	39	R	39	U	37	U
PCB-1221 (Arochlor 1221)	ug/Kg	39	R	39	U	37	U
PCB-1232 (Arochlor 1232)	ug/Kg	39	R	39	U	37	U
PCB-1242 (Arochlor 1242)	ug/Kg	39	R	39	U	37	U
PCB-1248 (Arochlor 1248)	ug/Kg	39	R	39	U	37	U
PCB-1254 (Arochlor 1254)	ug/Kg	80	R	80	U	75	U
PCB-1260 (Arochlor 1260)	ug/Kg	55	R	7	J	75	U

	StationID	G643SB011		G643SB012		G643SB012	
	SampleID	643SB01102 (3-5ft)		643SB01201 (0-1ft)		643SB01202 (3-5ft)	
	DateCollected	01/10/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/22/97		1/21/97		1/21/97	
	SDGNumber	28146		28114		28114	
Parameter	**Units**						
PCB-1016 (Arochlor 1016), SPLP	ug/L						
PCB-1221 (Arochlor 1221), SPLP	ug/L						
PCB-1232 (Arochlor 1232), SPLP	ug/L						
PCB-1242 (Arochlor 1242), SPLP	ug/L						
PCB-1248 (Arochlor 1248), SPLP	ug/L						
PCB-1254 (Arochlor 1254), SPLP	ug/L						
PCB-1260 (Arochlor 1260), SPLP	ug/L						
PCB-1016 (Arochlor 1016)	ug/Kg	44	U	36	U	41	U
PCB-1221 (Arochlor 1221)	ug/Kg	44	U	36	U	41	U
PCB-1232 (Arochlor 1232)	ug/Kg	44	U	36	U	41	U
PCB-1242 (Arochlor 1242)	ug/Kg	44	U	36	U	41	U
PCB-1248 (Arochlor 1248)	ug/Kg	44	U	36	U	41	U
PCB-1254 (Arochlor 1254)	ug/Kg	90	U	74	U	84	U
PCB-1260 (Arochlor 1260)	ug/Kg	90	U	150	=	84	U

	StationID	G643SB013		G643SB013		G643SB013	
	SampleID	643SB01302 (3-5ft)		643SB01302 (3-5ft)		643SB01302DL (3-5ft)	
	DateCollected	07/29/1999		07/29/1999		07/29/1999	
	DateAnalyzed	8/17/99		9/14/99		8/18/99	
	SDGNumber	39715		39715		39715	
Parameter	**Units**						
PCB-1016 (Arochlor 1016), SPLP	ug/L			1.2	R		
PCB-1221 (Arochlor 1221), SPLP	ug/L			1.2	R		
PCB-1232 (Arochlor 1232), SPLP	ug/L			1.2	R		
PCB-1242 (Arochlor 1242), SPLP	ug/L			1.2	R		
PCB-1248 (Arochlor 1248), SPLP	ug/L			1.2	R		
PCB-1254 (Arochlor 1254), SPLP	ug/L			1.2	R		
PCB-1260 (Arochlor 1260), SPLP	ug/L			1.2	R		
PCB-1016 (Arochlor 1016)	ug/Kg	45	U			45	R
PCB-1221 (Arochlor 1221)	ug/Kg	45	U			45	R
PCB-1232 (Arochlor 1232)	ug/Kg	45	U			45	R
PCB-1242 (Arochlor 1242)	ug/Kg	45	U			45	R
PCB-1248 (Arochlor 1248)	ug/Kg	45	U			45	R
PCB-1254 (Arochlor 1254)	ug/Kg	45	U			45	R
PCB-1260 (Arochlor 1260)	ug/Kg	45	U			45	R

	StationID	G643SB018		G643SB018		G643SB019	
	SampleID	643SB01801 (0-1ft)		643SB01802 (3-5ft)		643SB01901 (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/29/99		12/29/99		12/29/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
PCB-1016 (Arochlor 1016), SPLP	ug/L						
PCB-1221 (Arochlor 1221), SPLP	ug/L						
PCB-1232 (Arochlor 1232), SPLP	ug/L						
PCB-1242 (Arochlor 1242), SPLP	ug/L						
PCB-1248 (Arochlor 1248), SPLP	ug/L						
PCB-1254 (Arochlor 1254), SPLP	ug/L						
PCB-1260 (Arochlor 1260), SPLP	ug/L						
PCB-1016 (Arochlor 1016)	ug/Kg	36	U	38	U	37	U
PCB-1221 (Arochlor 1221)	ug/Kg	73	U	76	U	75	U
PCB-1232 (Arochlor 1232)	ug/Kg	36	U	38	U	37	U
PCB-1242 (Arochlor 1242)	ug/Kg	36	U	38	U	37	U
PCB-1248 (Arochlor 1248)	ug/Kg	36	U	38	U	37	U
PCB-1254 (Arochlor 1254)	ug/Kg	36	U	38	U	37	U
PCB-1260 (Arochlor 1260)	ug/Kg	76	=	38	U	37	U

	StationID	G643SB019		G643SB020		G643SB020	
	SampleID	643SB01902 (3-5ft)		643SB02001 (0-1ft)		643SB02002 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/29/99		12/29/99		12/29/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
PCB-1016 (Arochlor 1016), SPLP	ug/L						
PCB-1221 (Arochlor 1221), SPLP	ug/L						
PCB-1232 (Arochlor 1232), SPLP	ug/L						
PCB-1242 (Arochlor 1242), SPLP	ug/L						
PCB-1248 (Arochlor 1248), SPLP	ug/L						
PCB-1254 (Arochlor 1254), SPLP	ug/L						
PCB-1260 (Arochlor 1260), SPLP	ug/L						
PCB-1016 (Arochlor 1016)	ug/Kg	46	U	38	U	43	U
PCB-1221 (Arochlor 1221)	ug/Kg	93	U	78	U	88	U
PCB-1232 (Arochlor 1232)	ug/Kg	46	U	38	U	43	U
PCB-1242 (Arochlor 1242)	ug/Kg	46	U	38	U	43	U
PCB-1248 (Arochlor 1248)	ug/Kg	46	U	38	U	43	U
PCB-1254 (Arochlor 1254)	ug/Kg	46	U	38	U	43	U
PCB-1260 (Arochlor 1260)	ug/Kg	46	U	38	U	43	U

	StationID	G643SB022		G643SB022		G643SB023	
	SampleID	643SB02201 (0-1ft)		643SB02202 (3-5ft)		643SB02301 (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/30/99		12/30/99		12/30/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
PCB-1016 (Arochlor 1016), SPLP	ug/L						
PCB-1221 (Arochlor 1221), SPLP	ug/L						
PCB-1232 (Arochlor 1232), SPLP	ug/L						
PCB-1242 (Arochlor 1242), SPLP	ug/L						
PCB-1248 (Arochlor 1248), SPLP	ug/L						
PCB-1254 (Arochlor 1254), SPLP	ug/L						
PCB-1260 (Arochlor 1260), SPLP	ug/L						
PCB-1016 (Arochlor 1016)	ug/Kg	40	U	43	U	38	U
PCB-1221 (Arochlor 1221)	ug/Kg	81	U	88	U	77	U
PCB-1232 (Arochlor 1232)	ug/Kg	40	U	43	U	38	U
PCB-1242 (Arochlor 1242)	ug/Kg	40	U	43	U	38	U
PCB-1248 (Arochlor 1248)	ug/Kg	40	U	43	U	38	U
PCB-1254 (Arochlor 1254)	ug/Kg	40	U	43	U	38	U
PCB-1260 (Arochlor 1260)	ug/Kg	40	U	43	U	38	U

	StationID	G643SB023		G643SB023	
	SampleID	643SB02301DL (0-1ft)		643SB02302 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999	
	DateAnalyzed	1/3/00		12/30/99	
	SDGNumber	EN037		EN037	
Parameter	**Units**				
PCB-1016 (Arochlor 1016), SPLP	ug/L				
PCB-1221 (Arochlor 1221), SPLP	ug/L				
PCB-1232 (Arochlor 1232), SPLP	ug/L				
PCB-1242 (Arochlor 1242), SPLP	ug/L				
PCB-1248 (Arochlor 1248), SPLP	ug/L				
PCB-1254 (Arochlor 1254), SPLP	ug/L				
PCB-1260 (Arochlor 1260), SPLP	ug/L				
PCB-1016 (Arochlor 1016)	ug/Kg	150	R	40	U
PCB-1221 (Arochlor 1221)	ug/Kg	310	R	80	U
PCB-1232 (Arochlor 1232)	ug/Kg	150	R	40	U
PCB-1242 (Arochlor 1242)	ug/Kg	150	R	40	U
PCB-1248 (Arochlor 1248)	ug/Kg	150	R	40	U
PCB-1254 (Arochlor 1254)	ug/Kg	150	R	40	U
PCB-1260 (Arochlor 1260)	ug/Kg	150	R	40	U

	StationID	G643SB008		G643SB008		G643SB008	
	SampleID	643SB00801 (0-1ft)		643SB00801DL (0-1ft)		643SB00802 (3-5ft)	
	DateCollected	01/10/1997		01/10/1997		01/10/1997	
	DateAnalyzed	1/22/97		1/22/97		1/22/97	
	SDGNumber	28146		28146		28146	
Parameter	**Units**						
Aldrin, SPLP	ug/L						
Dieldrin, SPLP	ug/L						
Endosulfan I, SPLP	ug/L						
Endosulfan II, SPLP	ug/L						
Endosulfan Sulfate, SPLP	ug/L						
Endrin aldehyde, SPLP	ug/L						
Endrin ketone, SPLP	ug/L						
Endrin, SPLP	ug/L						
Gamma BHC (lindane), SPLP	ug/L						
Gamma-chlordane, SPLP	ug/L						
Heptachlor, SPLP	ug/L						
Heptochlor epoxide, SPLP	ug/L						
Isodrin	ug/Kg						
Methoxychlor, SPLP	ug/L						
p,p'-DDD, SPLP	ug/L						
p,p'-DDE, SPLP	ug/L						
p,p'-DDT, SPLP	ug/L						
Toxaphene, SPLP	ug/L						
Alpha BHC (alpha hexachlorocyclohexane), SPLP	ug/L						
Beta BHC (beta hexachlorocyclohexane), SPLP	ug/L						
Delta BHC (delta hexachlorocyclohexane), SPLP	ug/L						
Alpha-chlordane, SPLP	ug/L						
Alpha BHC (Alpha Hexachlorocyclohexane)	ug/Kg	1.5	U	7.6	R	1.9	U
Gamma BHC (Lindane)	ug/Kg	1.5	U	7.6	R	1.9	U
Beta BHC (Beta Hexachlorocyclohexane)	ug/Kg	1.5	U	7.6	R	1.9	U
Heptachlor	ug/Kg	1.5	U	7.6	R	1.9	U
Delta BHC (Delta Hexachlorocyclohexane)	ug/Kg	1.5	U	7.6	R	1.9	U
Aldrin	ug/Kg	1.5	U	7.6	R	1.9	U
Heptachlor Epoxide	ug/Kg	1.5	U	7.6	R	1.9	U
Gamma-chlordane	ug/Kg	5.6	=	7.6	R	1.9	U
Alpha-chlordane	ug/Kg	1.5	U	7.6	R	1.9	U
Endosulfan I	ug/Kg	1.5	U	7.6	R	1.9	U

	StationID	G643SB009		G643SB009		G643SB009	
	SampleID	643CB00901 (0-1ft)		643CB00901 (0-1ft)		643CB00901DL (0-1ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/20/97		1/21/97		1/22/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
Aldrin, SPLP	ug/L						
Dieldrin, SPLP	ug/L						
Endosulfan I, SPLP	ug/L						
Endosulfan II, SPLP	ug/L						
Endosulfan Sulfate, SPLP	ug/L						
Endrin aldehyde, SPLP	ug/L						
Endrin ketone, SPLP	ug/L						
Endrin, SPLP	ug/L						
Gamma BHC (lindane), SPLP	ug/L						
Gamma-chlordane, SPLP	ug/L						
Heptachlor, SPLP	ug/L						
Heptochlor epoxide, SPLP	ug/L						
Isodrin	ug/Kg	750	U				
Methoxychlor, SPLP	ug/L						
p,p'-DDD, SPLP	ug/L						
p,p'-DDE, SPLP	ug/L						
p,p'-DDT, SPLP	ug/L						
Toxaphene, SPLP	ug/L						
Alpha BHC (alpha hexachlorocyclohexane), SPLP	ug/L						
Beta BHC (beta hexachlorocyclohexane), SPLP	ug/L						
Delta BHC (delta hexachlorocyclohexane), SPLP	ug/L						
Alpha-chlordane, SPLP	ug/L						
Alpha BHC (Alpha Hexachlorocyclohexane)	ug/Kg			1.5	U	7.4	R
Gamma BHC (Lindane)	ug/Kg			1.5	U	7.4	R
Beta BHC (Beta Hexachlorocyclohexane)	ug/Kg			1.5	U	7.4	R
Heptachlor	ug/Kg			1.5	U	7.4	R
Delta BHC (Delta Hexachlorocyclohexane)	ug/Kg			1.5	U	7.4	R
Aldrin	ug/Kg			1.5	U	7.4	R
Heptachlor Epoxide	ug/Kg			1.5	U	7.4	R
Gamma-chlordane	ug/Kg			1.5	UJ	7.4	R
Alpha-chlordane	ug/Kg			1.5	UJ	7.4	R
Endosulfan I	ug/Kg			1.5	U	7.4	R

	StationID	G643SB009		G643SB009		G643SB009	
	SampleID	643SB00901 (0-1ft)		643SB00901DL (0-1ft)		643SB00902 (3-5ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/21/97		1/21/97		1/21/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
Aldrin, SPLP	ug/L						
Dieldrin, SPLP	ug/L						
Endosulfan I, SPLP	ug/L						
Endosulfan II, SPLP	ug/L						
Endosulfan Sulfate, SPLP	ug/L						
Endrin aldehyde, SPLP	ug/L						
Endrin ketone, SPLP	ug/L						
Endrin, SPLP	ug/L						
Gamma BHC (lindane), SPLP	ug/L						
Gamma-chlordane, SPLP	ug/L						
Heptachlor, SPLP	ug/L						
Heptochlor epoxide, SPLP	ug/L						
Isodrin	ug/Kg						
Methoxychlor, SPLP	ug/L						
p,p'-DDD, SPLP	ug/L						
p,p'-DDE, SPLP	ug/L						
p,p'-DDT, SPLP	ug/L						
Toxaphene, SPLP	ug/L						
Alpha BHC (alpha hexachlorocyclohexane), SPLP	ug/L						
Beta BHC (beta hexachlorocyclohexane), SPLP	ug/L						
Delta BHC (delta hexachlorocyclohexane), SPLP	ug/L						
Alpha-chlordane, SPLP	ug/L						
Alpha BHC (Alpha Hexachlorocyclohexane)	ug/Kg	1.4	U	2.9	R	1.6	U
Gamma BHC (Lindane)	ug/Kg	1.4	U	2.9	R	1.6	U
Beta BHC (Beta Hexachlorocyclohexane)	ug/Kg	1.4	U	2.9	R	1.6	U
Heptachlor	ug/Kg	1.4	U	2.9	R	1.6	U
Delta BHC (Delta Hexachlorocyclohexane)	ug/Kg	1.4	U	2.9	R	1.6	U
Aldrin	ug/Kg	1.4	U	2.9	R	1.6	U
Heptachlor Epoxide	ug/Kg	1.4	U	2.9	R	1.6	U
Gamma-chlordane	ug/Kg	1.4	U	2.9	R	1.6	U
Alpha-chlordane	ug/Kg	1.4	U	2.9	R	1.6	U
Endosulfan I	ug/Kg	1.4	U	2.9	R	1.6	U

	StationID	G643SB010		G643SB010		G643SB010	
	SampleID	643CB01001 (0-1ft)		643CB01001 (0-1ft)		643CB01001DL (0-1ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/20/97		1/21/97		1/21/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
Aldrin, SPLP	ug/L						
Dieldrin, SPLP	ug/L						
Endosulfan I, SPLP	ug/L						
Endosulfan II, SPLP	ug/L						
Endosulfan Sulfate, SPLP	ug/L						
Endrin aldehyde, SPLP	ug/L						
Endrin ketone, SPLP	ug/L						
Endrin, SPLP	ug/L						
Gamma BHC (lindane), SPLP	ug/L						
Gamma-chlordane, SPLP	ug/L						
Heptachlor, SPLP	ug/L						
Heptochlor epoxide, SPLP	ug/L						
Isodrin	ug/Kg	740	U				
Methoxychlor, SPLP	ug/L						
p,p'-DDD, SPLP	ug/L						
p,p'-DDE, SPLP	ug/L						
p,p'-DDT, SPLP	ug/L						
Toxaphene, SPLP	ug/L						
Alpha BHC (alpha hexachlorocyclohexane), SPLP	ug/L						
Beta BHC (beta hexachlorocyclohexane), SPLP	ug/L						
Delta BHC (delta hexachlorocyclohexane), SPLP	ug/L						
Alpha-chlordane, SPLP	ug/L						
Alpha BHC (Alpha Hexachlorocyclohexane)	ug/Kg			1.5	U	2.9	R
Gamma BHC (Lindane)	ug/Kg			1.5	U	2.9	R
Beta BHC (Beta Hexachlorocyclohexane)	ug/Kg			1.5	U	2.9	R
Heptachlor	ug/Kg			1.5	U	2.9	R
Delta BHC (Delta Hexachlorocyclohexane)	ug/Kg			1.5	U	2.9	R
Aldrin	ug/Kg			1.5	U	2.9	R
Heptachlor Epoxide	ug/Kg			1.5	U	2.9	R
Gamma-chlordane	ug/Kg			1.5	UJ	2.9	R
Alpha-chlordane	ug/Kg			1.5	UJ	2.9	R
Endosulfan I	ug/Kg			1.5	U	2.9	R

	StationID	G643SB010		G643SB010		G643SB010	
	SampleID	643SB01001 (0-1ft)		643SB01001DL (0-1ft)		643SB01002 (3-5ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/21/97		1/22/97		1/21/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
Aldrin, SPLP	ug/L						
Dieldrin, SPLP	ug/L						
Endosulfan I, SPLP	ug/L						
Endosulfan II, SPLP	ug/L						
Endosulfan Sulfate, SPLP	ug/L						
Endrin aldehyde, SPLP	ug/L						
Endrin ketone, SPLP	ug/L						
Endrin, SPLP	ug/L						
Gamma BHC (lindane), SPLP	ug/L						
Gamma-chlordane, SPLP	ug/L						
Heptachlor, SPLP	ug/L						
Heptochlor epoxide, SPLP	ug/L						
Isodrin	ug/Kg						
Methoxychlor, SPLP	ug/L						
p,p'-DDD, SPLP	ug/L						
p,p'-DDE, SPLP	ug/L						
p,p'-DDT, SPLP	ug/L						
Toxaphene, SPLP	ug/L						
Alpha BHC (alpha hexachlorocyclohexane), SPLP	ug/L						
Beta BHC (beta hexachlorocyclohexane), SPLP	ug/L						
Delta BHC (delta hexachlorocyclohexane), SPLP	ug/L						
Alpha-chlordane, SPLP	ug/L						
Alpha BHC (Alpha Hexachlorocyclohexane)	ug/Kg	1.5	U	7.6	R	1.5	R
Gamma BHC (Lindane)	ug/Kg	1.5	U	7.6	R	1.5	R
Beta BHC (Beta Hexachlorocyclohexane)	ug/Kg	1.5	U	7.6	R	1.5	R
Heptachlor	ug/Kg	1.5	U	7.6	R	1.5	R
Delta BHC (Delta Hexachlorocyclohexane)	ug/Kg	1.5	U	7.6	R	1.5	R
Aldrin	ug/Kg	1.5	U	7.6	R	1.5	R
Heptachlor Epoxide	ug/Kg	3.6	U	7.6	R	1.5	R
Gamma-chlordane	ug/Kg	17	J	16	R	1.5	R
Alpha-chlordane	ug/Kg	6.5	J	9.2	R	1.5	R
Endosulfan I	ug/Kg	1.5	U	7.6	R	1.5	R

	StationID	G643SB010		G643SB011		G643SB011	
	SampleID	643SB01002RE (3-5ft)		643SB01101 (0-1ft)		643SB01102 (3-5ft)	
	DateCollected	01/08/1997		01/10/1997		01/10/1997	
	DateAnalyzed	1/22/97		1/22/97		1/22/97	
	SDGNumber	28114		28146		28146	
Parameter	**Units**						
Aldrin, SPLP	ug/L						
Dieldrin, SPLP	ug/L						
Endosulfan I, SPLP	ug/L						
Endosulfan II, SPLP	ug/L						
Endosulfan Sulfate, SPLP	ug/L						
Endrin aldehyde, SPLP	ug/L						
Endrin ketone, SPLP	ug/L						
Endrin, SPLP	ug/L						
Gamma BHC (lindane), SPLP	ug/L						
Gamma-chlordane, SPLP	ug/L						
Heptachlor, SPLP	ug/L						
Heptochlor epoxide, SPLP	ug/L						
Isodrin	ug/Kg						
Methoxychlor, SPLP	ug/L						
p,p'-DDD, SPLP	ug/L						
p,p'-DDE, SPLP	ug/L						
p,p'-DDT, SPLP	ug/L						
Toxaphene, SPLP	ug/L						
Alpha BHC (alpha hexachlorocyclohexane), SPLP	ug/L						
Beta BHC (beta hexachlorocyclohexane), SPLP	ug/L						
Delta BHC (delta hexachlorocyclohexane), SPLP	ug/L						
Alpha-chlordane, SPLP	ug/L						
Alpha BHC (Alpha Hexachlorocyclohexane)	ug/Kg	1.5	U	1.5	U	1.8	U
Gamma BHC (Lindane)	ug/Kg	1.5	U	1.5	U	1.8	U
Beta BHC (Beta Hexachlorocyclohexane)	ug/Kg	1.5	U	1.5	U	1.8	U
Heptachlor	ug/Kg	1.5	U	1.5	U	1.8	U
Delta BHC (Delta Hexachlorocyclohexane)	ug/Kg	1.5	U	1.5	U	1.8	U
Aldrin	ug/Kg	1.5	U	1.5	U	1.8	U
Heptachlor Epoxide	ug/Kg	1.5	U	1.5	U	1.8	U
Gamma-chlordane	ug/Kg	1.5	U	1.5	U	1.8	U
Alpha-chlordane	ug/Kg	1.5	U	1.5	U	1.8	U
Endosulfan I	ug/Kg	1.5	U	1.5	U	1.8	U

	StationID	G643SB012		G643SB012		G643SB013	
	SampleID	643SB01201 (0-1ft)		643SB01202 (3-5ft)		643SB01302 (3-5ft)	
	DateCollected	01/08/1997		01/08/1997		07/29/1999	
	DateAnalyzed	1/21/97		1/21/97		8/17/99	
	SDGNumber	28114		28114		39715	
Parameter	**Units**						
Aldrin, SPLP	ug/L						
Dieldrin, SPLP	ug/L						
Endosulfan I, SPLP	ug/L						
Endosulfan II, SPLP	ug/L						
Endosulfan Sulfate, SPLP	ug/L						
Endrin aldehyde, SPLP	ug/L						
Endrin ketone, SPLP	ug/L						
Endrin, SPLP	ug/L						
Gamma BHC (lindane), SPLP	ug/L						
Gamma-chlordane, SPLP	ug/L						
Heptachlor, SPLP	ug/L						
Heptochlor epoxide, SPLP	ug/L						
Isodrin	ug/Kg						
Methoxychlor, SPLP	ug/L						
p,p'-DDD, SPLP	ug/L						
p,p'-DDE, SPLP	ug/L						
p,p'-DDT, SPLP	ug/L						
Toxaphene, SPLP	ug/L						
Alpha BHC (alpha hexachlorocyclohexane), SPLP	ug/L						
Beta BHC (beta hexachlorocyclohexane), SPLP	ug/L						
Delta BHC (delta hexachlorocyclohexane), SPLP	ug/L						
Alpha-chlordane, SPLP	ug/L						
Alpha BHC (Alpha Hexachlorocyclohexane)	ug/Kg	1.4	U	1.6	U	1.8	U
Gamma BHC (Lindane)	ug/Kg	1.4	U	1.6	U	1.8	U
Beta BHC (Beta Hexachlorocyclohexane)	ug/Kg	1.4	U	1.6	U	1.8	U
Heptachlor	ug/Kg	1.4	U	1.6	U	1.8	U
Delta BHC (Delta Hexachlorocyclohexane)	ug/Kg	1.4	U	1.6	U	1.8	U
Aldrin	ug/Kg	1.4	U	1.6	U	1.8	U
Heptachlor Epoxide	ug/Kg	1.4	U	1.6	U	1.8	U
Gamma-chlordane	ug/Kg	18	=	1.6	U	4.6	=
Alpha-chlordane	ug/Kg	13	=	1.6	U	1.8	U
Endosulfan I	ug/Kg	1.4	U	1.6	U	1.8	U

	StationID	G643SB013		G643SB013		G643SB014	
	SampleID	643SB01302 (3-5ft)		643SB01302DL (3-5ft)		643SB01401b (0-1ft)	
	DateCollected	07/29/1999		07/29/1999		12/17/1999	
	DateAnalyzed	9/14/99		8/18/99		1/3/00	
	SDGNumber	39715		39715		EN037	
Parameter	**Units**						
Aldrin, SPLP	ug/L	0.053	R				
Dieldrin, SPLP	ug/L	0.11	R				
Endosulfan I, SPLP	ug/L	0.053	R				
Endosulfan II, SPLP	ug/L	0.11	R				
Endosulfan Sulfate, SPLP	ug/L	0.11	R				
Endrin aldehyde, SPLP	ug/L	0.11	R				
Endrin ketone, SPLP	ug/L	0.11	R				
Endrin, SPLP	ug/L	0.11	R				
Gamma BHC (lindane), SPLP	ug/L	0.053	R				
Gamma-chlordane, SPLP	ug/L	0.053	R				
Heptachlor, SPLP	ug/L	0.053	R				
Heptochlor epoxide, SPLP	ug/L	0.053	R				
Isodrin	ug/Kg						
Methoxychlor, SPLP	ug/L	0.51	R				
p,p'-DDD, SPLP	ug/L	0.11	R				
p,p'-DDE, SPLP	ug/L	0.11	R				
p,p'-DDT, SPLP	ug/L	0.11	R				
Toxaphene, SPLP	ug/L	3.3	R				
Alpha BHC (alpha hexachlorocyclohexane), SPLP	ug/L	0.053	R				
Beta BHC (beta hexachlorocyclohexane), SPLP	ug/L	0.053	R				
Delta BHC (delta hexachlorocyclohexane), SPLP	ug/L	0.053	R				
Alpha-chlordane, SPLP	ug/L	0.053	R				
Alpha BHC (Alpha Hexachlorocyclohexane)	ug/Kg			18	R	1.9	U
Gamma BHC (Lindane)	ug/Kg			18	R	1.9	U
Beta BHC (Beta Hexachlorocyclohexane)	ug/Kg			18	R	1.9	U
Heptachlor	ug/Kg			18	R	1.9	U
Delta BHC (Delta Hexachlorocyclohexane)	ug/Kg			18	R	1.9	U
Aldrin	ug/Kg			18	R	1.9	U
Heptachlor Epoxide	ug/Kg			18	R	3	=
Gamma-chlordane	ug/Kg			18	R	28	J
Alpha-chlordane	ug/Kg			18	R	1.9	U
Endosulfan I	ug/Kg			18	R	1.9	U

	StationID	G643SB014		G643SB023		G643SB023	
	SampleID	643SB01401bDL (0-1ft)		643SB02301 (0-1ft)		643SB02301DL (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	1/4/00		12/30/99		1/3/00	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Aldrin, SPLP	ug/L						
Dieldrin, SPLP	ug/L						
Endosulfan I, SPLP	ug/L						
Endosulfan II, SPLP	ug/L						
Endosulfan Sulfate, SPLP	ug/L						
Endrin aldehyde, SPLP	ug/L						
Endrin ketone, SPLP	ug/L						
Endrin, SPLP	ug/L						
Gamma BHC (lindane), SPLP	ug/L						
Gamma-chlordane, SPLP	ug/L						
Heptachlor, SPLP	ug/L						
Heptochlor epoxide, SPLP	ug/L						
Isodrin	ug/Kg						
Methoxychlor, SPLP	ug/L						
p,p'-DDD, SPLP	ug/L						
p,p'-DDE, SPLP	ug/L						
p,p'-DDT, SPLP	ug/L						
Toxaphene, SPLP	ug/L						
Alpha BHC (alpha hexachlorocyclohexane), SPLP	ug/L						
Beta BHC (beta hexachlorocyclohexane), SPLP	ug/L						
Delta BHC (delta hexachlorocyclohexane), SPLP	ug/L						
Alpha-chlordane, SPLP	ug/L						
Alpha BHC (Alpha Hexachlorocyclohexane)	ug/Kg	190	R	2	U	7.9	R
Gamma BHC (Lindane)	ug/Kg	190	R	2	U	7.9	R
Beta BHC (Beta Hexachlorocyclohexane)	ug/Kg	190	R	2	U	7.9	R
Heptachlor	ug/Kg	190	R	2	U	7.9	R
Delta BHC (Delta Hexachlorocyclohexane)	ug/Kg	190	R	2	U	7.9	R
Aldrin	ug/Kg	190	R	2	U	7.9	R
Heptachlor Epoxide	ug/Kg	190	R	2	U	7.9	R
Gamma-chlordane	ug/Kg	190	R	2	U	7.9	R
Alpha-chlordane	ug/Kg	190	R	2	U	7.9	R
Endosulfan I	ug/Kg	190	R	2	U	7.9	R

	StationID	G643SB023	
	SampleID	643SB02302 (3-5ft)	
	DateCollected	12/17/1999	
	DateAnalyzed	12/30/99	
	SDGNumber	EN037	
Parameter	**Units**		
Aldrin, SPLP	ug/L		
Dieldrin, SPLP	ug/L		
Endosulfan I, SPLP	ug/L		
Endosulfan II, SPLP	ug/L		
Endosulfan Sulfate, SPLP	ug/L		
Endrin aldehyde, SPLP	ug/L		
Endrin ketone, SPLP	ug/L		
Endrin, SPLP	ug/L		
Gamma BHC (lindane), SPLP	ug/L		
Gamma-chlordane, SPLP	ug/L		
Heptachlor, SPLP	ug/L		
Heptochlor epoxide, SPLP	ug/L		
Isodrin	ug/Kg		
Methoxychlor, SPLP	ug/L		
p,p'-DDD, SPLP	ug/L		
p,p'-DDE, SPLP	ug/L		
p,p'-DDT, SPLP	ug/L		
Toxaphene, SPLP	ug/L		
Alpha BHC (alpha hexachlorocyclohexane), SPLP	ug/L		
Beta BHC (beta hexachlorocyclohexane), SPLP	ug/L		
Delta BHC (delta hexachlorocyclohexane), SPLP	ug/L		
Alpha-chlordane, SPLP	ug/L		
Alpha BHC (Alpha Hexachlorocyclohexane)	ug/Kg	2.1	U
Gamma BHC (Lindane)	ug/Kg	2.1	U
Beta BHC (Beta Hexachlorocyclohexane)	ug/Kg	2.1	U
Heptachlor	ug/Kg	2.1	U
Delta BHC (Delta Hexachlorocyclohexane)	ug/Kg	2.1	U
Aldrin	ug/Kg	2.1	U
Heptachlor Epoxide	ug/Kg	2.1	U
Gamma-chlordane	ug/Kg	6.2	J
Alpha-chlordane	ug/Kg	2.1	U
Endosulfan I	ug/Kg	2.1	U

	StationID	G643SB008		G643SB008		G643SB008	
	SampleID	643SB00801 (0-1ft)		643SB00801DL (0-1ft)		643SB00802 (3-5ft)	
	DateCollected	01/10/1997		01/10/1997		01/10/1997	
	DateAnalyzed	1/22/97		1/22/97		1/22/97	
	SDGNumber	28146		28146		28146	
Parameter	**Units**						
p,p'-DDE	ug/Kg	100	=	100	R	3.7	U
Dieldrin	ug/Kg	2.9	U	14	R	3.7	U
Endrin	ug/Kg	2.9	U	14	R	3.7	U
p,p'-DDD	ug/Kg	2.9	U	14	R	3.7	U
Endosulfan II	ug/Kg	2.9	U	14	R	3.7	U
p,p'-DDT	ug/Kg	24	=	22	R	3.7	U
Endrin Aldehyde	ug/Kg	2.9	U	14	R	3.7	U
Endosulfan Sulfate	ug/Kg	2.9	U	14	R	3.7	U
Methoxychlor	ug/Kg	15	U	76	R	19	U
Endrin Ketone	ug/Kg	2.9	U	14	R	3.7	U
Toxaphene	ug/Kg	96	U	480	R	120	U
Chlordane	ug/Kg						

	StationID	G643SB009		G643SB009		G643SB009	
	SampleID	643CB00901 (0-1ft)		643CB00901 (0-1ft)		643CB00901DL (0-1ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/20/97		1/21/97		1/22/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
p,p'-DDE	ug/Kg			100	=	100	R
Dieldrin	ug/Kg			2.8	U	14	R
Endrin	ug/Kg			2.8	U	14	R
p,p'-DDD	ug/Kg			3.2	U	14	R
Endosulfan II	ug/Kg			2.8	U	14	R
p,p'-DDT	ug/Kg			26	J	31	R
Endrin Aldehyde	ug/Kg			2.8	UJ	14	R
Endosulfan Sulfate	ug/Kg			2.8	U	14	R
Methoxychlor	ug/Kg			15	U	74	R
Endrin Ketone	ug/Kg			2.8	U	14	R
Toxaphene	ug/Kg			94	U	470	R
Chlordane	ug/Kg						

	StationID	G643SB009		G643SB009		G643SB009	
	SampleID	643SB00901 (0-1ft)		643SB00901DL (0-1ft)		643SB00902 (3-5ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/21/97		1/21/97		1/21/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
p,p'-DDE	ug/Kg	70	=	70	R	4.9	=
Dieldrin	ug/Kg	2.8	U	5.6	R	3.1	U
Endrin	ug/Kg	2.8	U	5.6	R	3.1	U
p,p'-DDD	ug/Kg	2.8	U	5.6	R	3.1	U
Endosulfan II	ug/Kg	2.8	U	5.6	R	3.1	U
p,p'-DDT	ug/Kg	32	=	24	R	11	=
Endrin Aldehyde	ug/Kg	2.8	U	5.6	R	3.1	U
Endosulfan Sulfate	ug/Kg	2.8	U	5.6	R	3.1	U
Methoxychlor	ug/Kg	14	U	29	R	16	U
Endrin Ketone	ug/Kg	2.8	U	5.6	R	3.1	U
Toxaphene	ug/Kg	92	U	180	R	100	U
Chlordane	ug/Kg						

	StationID	G643SB010		G643SB010		G643SB010	
	SampleID	643CB01001 (0-1ft)		643CB01001 (0-1ft)		643CB01001DL (0-1ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/20/97		1/21/97		1/21/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
p,p'-DDE	ug/Kg			59	=	59	R
Dieldrin	ug/Kg			2.8	U	5.6	R
Endrin	ug/Kg			2.8	U	5.6	R
p,p'-DDD	ug/Kg			2.8	UJ	5.6	R
Endosulfan II	ug/Kg			2.8	U	5.6	R
p,p'-DDT	ug/Kg			18	J	21	R
Endrin Aldehyde	ug/Kg			2.8	UJ	5.6	R
Endosulfan Sulfate	ug/Kg			2.8	U	5.6	R
Methoxychlor	ug/Kg			15	U	29	R
Endrin Ketone	ug/Kg			2.8	U	5.6	R
Toxaphene	ug/Kg			93	U	190	R
Chlordane	ug/Kg						

	StationID	G643SB010		G643SB010		G643SB010	
	SampleID	643SB01001 (0-1ft)		643SB01001DL (0-1ft)		643SB01002 (3-5ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/21/97		1/22/97		1/21/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
p,p'-DDE	ug/Kg	64	=	64	R	3	R
Dieldrin	ug/Kg	2.9	U	14	R	3	R
Endrin	ug/Kg	12	U	14	R	3	R
p,p'-DDD	ug/Kg	24	J	14	R	3	R
Endosulfan II	ug/Kg	2.9	U	14	R	3	R
p,p'-DDT	ug/Kg	250	J	250	R	5.2	R
Endrin Aldehyde	ug/Kg	120	J	120	R	3	R
Endosulfan Sulfate	ug/Kg	2.9	U	14	R	3	R
Methoxychlor	ug/Kg	15	U	76	R	15	R
Endrin Ketone	ug/Kg	2.9	U	14	R	3	R
Toxaphene	ug/Kg	96	U	480	R	99	R
Chlordane	ug/Kg						

	StationID	G643SB010		G643SB011		G643SB011	
	SampleID	643SB01002RE (3-5ft)		643SB01101 (0-1ft)		643SB01102 (3-5ft)	
	DateCollected	01/08/1997		01/10/1997		01/10/1997	
	DateAnalyzed	1/22/97		1/22/97		1/22/97	
	SDGNumber	28114		28146		28146	
Parameter	**Units**						
p,p'-DDE	ug/Kg	3	U	12	=	3.4	U
Dieldrin	ug/Kg	3	U	2.8	U	3.4	U
Endrin	ug/Kg	3	U	2.8	U	3.4	U
p,p'-DDD	ug/Kg	3	U	2.8	U	3.4	U
Endosulfan II	ug/Kg	3	U	2.8	U	3.4	U
p,p'-DDT	ug/Kg	3	U	2.8	U	3.4	U
Endrin Aldehyde	ug/Kg	3	U	2.8	U	3.4	U
Endosulfan Sulfate	ug/Kg	3	U	2.8	U	3.4	U
Methoxychlor	ug/Kg	15	U	15	U	18	U
Endrin Ketone	ug/Kg	3	U	2.8	U	3.4	U
Toxaphene	ug/Kg	99	U	93	U	110	U
Chlordane	ug/Kg						

	StationID	G643SB012		G643SB012		G643SB013	
	SampleID	643SB01201 (0-1ft)		643SB01202 (3-5ft)		643SB01302 (3-5ft)	
	DateCollected	01/08/1997		01/08/1997		07/29/1999	
	DateAnalyzed	1/21/97		1/21/97		8/17/99	
	SDGNumber	28114		28114		39715	
Parameter	**Units**						
p,p'-DDE	ug/Kg	9.8	=	7.3	=	200	=
Dieldrin	ug/Kg	2.7	U	3.1	U	3.4	U
Endrin	ug/Kg	2.7	U	3.1	U	3.4	U
p,p'-DDD	ug/Kg	3.9	U	3.1	U	6.8	=
Endosulfan II	ug/Kg	2.7	U	3.1	U	3.4	U
p,p'-DDT	ug/Kg	26	=	3.1	U	32	=
Endrin Aldehyde	ug/Kg	4.4	U	3.1	U	3.4	U
Endosulfan Sulfate	ug/Kg	2.7	U	3.1	U	3.4	U
Methoxychlor	ug/Kg	14	U	16	U	18	U
Endrin Ketone	ug/Kg	2.7	U	3.1	U	3	U
Toxaphene	ug/Kg	91	U	100	U	110	U
Chlordane	ug/Kg						

	StationID	G643SB013		G643SB013		G643SB014	
	SampleID	643SB01302 (3-5ft)		643SB01302DL (3-5ft)		643SB01401b (0-1ft)	
	DateCollected	07/29/1999		07/29/1999		12/17/1999	
	DateAnalyzed	9/14/99		8/18/99		1/3/00	
	SDGNumber	39715		39715		EN037	
Parameter	**Units**						
p,p'-DDE	ug/Kg			200	R	4300	=
Dieldrin	ug/Kg			34	R	3.8	U
Endrin	ug/Kg			57	R	3.8	U
p,p'-DDD	ug/Kg			34	R	670	=
Endosulfan II	ug/Kg			34	R	3.8	U
p,p'-DDT	ug/Kg			88	R	39	=
Endrin Aldehyde	ug/Kg			34	R	3.8	U
Endosulfan Sulfate	ug/Kg			34	R	3.8	U
Methoxychlor	ug/Kg			180	R	19	U
Endrin Ketone	ug/Kg			34	R	3.8	U
Toxaphene	ug/Kg			1100	R	190	U
Chlordane	ug/Kg					380	U

	StationID	G643SB014		G643SB023		G643SB023	
	SampleID	643SB01401bDL (0-1ft)		643SB02301 (0-1ft)		643SB02301DL (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	1/4/00		12/30/99		1/3/00	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
p,p'-DDE	ug/Kg	4300	R	170	=	170	R
Dieldrin	ug/Kg	380	R	3.8	U	15	R
Endrin	ug/Kg	380	R	3.8	U	15	R
p,p'-DDD	ug/Kg	670	R	3.8	U	15	R
Endosulfan II	ug/Kg	380	R	3.8	U	15	R
p,p'-DDT	ug/Kg	380	R	96	=	96	R
Endrin Aldehyde	ug/Kg	380	R	3.8	U	15	R
Endosulfan Sulfate	ug/Kg	380	R	3.8	U	15	R
Methoxychlor	ug/Kg	1900	R	20	U	79	R
Endrin Ketone	ug/Kg	380	R	3.8	U	15	R
Toxaphene	ug/Kg	19000	R	200	U	790	R
Chlordane	ug/Kg	38000	R	380	U	1500	R

	StationID	G643SB023	
	SampleID	643SB02302 (3-5ft)	
	DateCollected	12/17/1999	
	DateAnalyzed	12/30/99	
	SDGNumber	EN037	
Parameter	**Units**		
p,p'-DDE	ug/Kg	12	=
Dieldrin	ug/Kg	4	U
Endrin	ug/Kg	4	U
p,p'-DDD	ug/Kg	4	U
Endosulfan II	ug/Kg	4	U
p,p'-DDT	ug/Kg	18	=
Endrin Aldehyde	ug/Kg	4	U
Endosulfan Sulfate	ug/Kg	4	U
Methoxychlor	ug/Kg	21	U
Endrin Ketone	ug/Kg	4	U
Toxaphene	ug/Kg	210	U
Chlordane	ug/Kg	400	U

	StationID	G643SB008		G643SB008		G643SB009	
	SampleID	643SB00801 (0-1ft)		643SB00802 (3-5ft)		643CB00901 (0-1ft)	
	DateCollected	01/10/1997		01/10/1997		01/08/1997	
	DateAnalyzed	1/23/97		1/22/97		1/14/97	
	SDGNumber	28146		28146		28114	
Parameter	**Units**						
1,2,3-Trichloropropane	ug/Kg					6	U
1,2,4,5-Tetrachlorobenzene	ug/Kg						
1,3,5-Trinitrobenzene	ug/Kg						
1,3-Dinitrobenzene	ug/Kg						
1,4-Naphthoquinone	ug/Kg						
1-Naphthylamine	ug/Kg						
2,2'-Oxybis(1-chloro)propane	ug/Kg	380	U	490	U		
2,3,4,6-Tetrachlorophenol	ug/Kg						
2,6-Dichlorophenol	ug/Kg						
2-Methylnaphthalene	ug/Kg	380	U	490	U		
2-Methylphenol (o-Cresol)	ug/Kg	380	U	490	U		
2-Naphthylamine	ug/Kg						
2-Picoline	ug/Kg						
3,3-Dimethylbenzidine	ug/Kg						
3-Methyl cholanthrene	ug/Kg						
3-Methylphenol (m-Cresol)	ug/Kg						
4-Aminobiphenyl	ug/Kg						
4-Nitroquinoline 1-oxide	ug/Kg						
5-Nitro-o-toluidine	ug/Kg						
7,12-Dimethylbenz(a)anthracene	ug/Kg						
a,a-Dimethylphenethylamine	ug/Kg						
Acetamidofluorene	ug/Kg						
Acetophenone	ug/Kg						
Aniline	ug/Kg						
Aramite	ug/Kg						
Carbazole	ug/Kg						
Chlorobenzilate	ug/Kg						
Diphenylamine	ug/Kg						
Ethyl methacrylate	ug/Kg					6	U
Ethyl methanesulfonate	ug/Kg						
Hexachlorophene	ug/Kg						
Hexachloropropene	ug/Kg						

	StationID	G643SB009		G643SB009		G643SB009	
	SampleID	643CB00901 (0-1ft)		643SB00901 (0-1ft)		643SB00902 (3-5ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/20/97		1/15/97		1/15/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
1,2,3-Trichloropropane	ug/Kg						
1,2,4,5-Tetrachlorobenzene	ug/Kg	380	UJ				
1,3,5-Trinitrobenzene	ug/Kg	380	U				
1,3-Dinitrobenzene	ug/Kg	380	U				
1,4-Naphthoquinone	ug/Kg	380	U				
1-Naphthylamine	ug/Kg	380	UJ				
2,2'-Oxybis(1-chloro)propane	ug/Kg	380	U	370	U	410	U
2,3,4,6-Tetrachlorophenol	ug/Kg	380	U				
2,6-Dichlorophenol	ug/Kg	380	U				
2-Methylnaphthalene	ug/Kg	380	U	370	U	410	U
2-Methylphenol (o-Cresol)	ug/Kg	380	U	370	U	410	U
2-Naphthylamine	ug/Kg	380	U				
2-Picoline	ug/Kg	380	U				
3,3-Dimethylbenzidine	ug/Kg	380	U				
3-Methyl cholanthrene	ug/Kg	380	R				
3-Methylphenol (m-Cresol)	ug/Kg	380	U				
4-Aminobiphenyl	ug/Kg	380	UJ				
4-Nitroquinoline 1-oxide	ug/Kg	1800	U				
5-Nitro-o-toluidine	ug/Kg	380	UJ				
7,12-Dimethylbenz(a)anthracene	ug/Kg	1800	U				
a,a-Dimethylphenethylamine	ug/Kg	380	U				
Acetamidofluorene	ug/Kg	380	U				
Acetophenone	ug/Kg	380	U				
Aniline	ug/Kg	380	U				
Aramite	ug/Kg	1800	R				
Carbazole	ug/Kg	380	R				
Chlorobenzilate	ug/Kg	380	U				
Diphenylamine	ug/Kg	380	UJ				
Ethyl methacrylate	ug/Kg						
Ethyl methanesulfonate	ug/Kg	380	U				
Hexachlorophene	ug/Kg	7500	R				
Hexachloropropene	ug/Kg	380	U				

	StationID	G643SB010		G643SB010		G643SB010	
	SampleID	643CB01001 (0-1ft)		643CB01001 (0-1ft)		643SB01001 (0-1ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/13/97		1/20/97		1/15/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
1,2,3-Trichloropropane	ug/Kg	6	U				
1,2,4,5-Tetrachlorobenzene	ug/Kg			370	UJ		
1,3,5-Trinitrobenzene	ug/Kg			370	U		
1,3-Dinitrobenzene	ug/Kg			370	U		
1,4-Naphthoquinone	ug/Kg			370	U		
1-Naphthylamine	ug/Kg			370	UJ		
2,2'-Oxybis(1-chloro)propane	ug/Kg			370	U	380	U
2,3,4,6-Tetrachlorophenol	ug/Kg			370	U		
2,6-Dichlorophenol	ug/Kg			370	U		
2-Methylnaphthalene	ug/Kg			370	U	380	U
2-Methylphenol (o-Cresol)	ug/Kg			370	U	380	U
2-Naphthylamine	ug/Kg			370	U		
2-Picoline	ug/Kg			370	U		
3,3-Dimethylbenzidine	ug/Kg			370	U		
3-Methyl cholanthrene	ug/Kg			370	R		
3-Methylphenol (m-Cresol)	ug/Kg			370	U		
4-Aminobiphenyl	ug/Kg			370	UJ		
4-Nitroquinoline 1-oxide	ug/Kg			1800	U		
5-Nitro-o-toluidine	ug/Kg			370	UJ		
7,12-Dimethylbenz(a)anthracene	ug/Kg			1800	U		
a,a-Dimethylphenethylamine	ug/Kg			370	U		
Acetamidofluorene	ug/Kg			370	U		
Acetophenone	ug/Kg			370	U		
Aniline	ug/Kg			370	U		
Aramite	ug/Kg			1800	R		
Carbazole	ug/Kg			370	R		
Chlorobenzilate	ug/Kg			370	U		
Diphenylamine	ug/Kg			370	UJ		
Ethyl methacrylate	ug/Kg	6	U				
Ethyl methanesulfonate	ug/Kg			370	U		
Hexachlorophene	ug/Kg			7400	R		
Hexachloropropene	ug/Kg			370	U		

	StationID	G643SB010		G643SB011		G643SB011	
	SampleID	643SB01002 (3-5ft)		643SB01101 (0-1ft)		643SB01102 (3-5ft)	
	DateCollected	01/08/1997		01/10/1997		01/10/1997	
	DateAnalyzed	1/15/97		1/17/97		1/22/97	
	SDGNumber	28114		28146		28146	
Parameter	**Units**						
1,2,3-Trichloropropane	ug/Kg						
1,2,4,5-Tetrachlorobenzene	ug/Kg						
1,3,5-Trinitrobenzene	ug/Kg						
1,3-Dinitrobenzene	ug/Kg						
1,4-Naphthoquinone	ug/Kg						
1-Naphthylamine	ug/Kg						
2,2'-Oxybis(1-chloro)propane	ug/Kg	390	U	370	U	440	U
2,3,4,6-Tetrachlorophenol	ug/Kg						
2,6-Dichlorophenol	ug/Kg						
2-Methylnaphthalene	ug/Kg	390	U	370	U	440	U
2-Methylphenol (o-Cresol)	ug/Kg	390	U	370	U	440	U
2-Naphthylamine	ug/Kg						
2-Picoline	ug/Kg						
3,3-Dimethylbenzidine	ug/Kg						
3-Methyl cholanthrene	ug/Kg						
3-Methylphenol (m-Cresol)	ug/Kg						
4-Aminobiphenyl	ug/Kg						
4-Nitroquinoline 1-oxide	ug/Kg						
5-Nitro-o-toluidine	ug/Kg						
7,12-Dimethylbenz(a)anthracene	ug/Kg						
a,a-Dimethylphenethylamine	ug/Kg						
Acetamidofluorene	ug/Kg						
Acetophenone	ug/Kg						
Aniline	ug/Kg						
Aramite	ug/Kg						
Carbazole	ug/Kg						
Chlorobenzilate	ug/Kg						
Diphenylamine	ug/Kg						
Ethyl methacrylate	ug/Kg						
Ethyl methanesulfonate	ug/Kg						
Hexachlorophene	ug/Kg						
Hexachloropropene	ug/Kg						

	StationID	G643SB012		G643SB012		G643SB014	
	SampleID	643SB01201 (0-1ft)		643SB01202 (3-5ft)		643SB01401a (0-1ft)	
	DateCollected	01/08/1997		01/08/1997		01/25/2000	
	DateAnalyzed	1/15/97		1/15/97		2/2/00	
	SDGNumber	28114		28114		41852	
Parameter	**Units**						
1,2,3-Trichloropropane	ug/Kg						
1,2,4,5-Tetrachlorobenzene	ug/Kg						
1,3,5-Trinitrobenzene	ug/Kg						
1,3-Dinitrobenzene	ug/Kg						
1,4-Naphthoquinone	ug/Kg						
1-Naphthylamine	ug/Kg						
2,2'-Oxybis(1-chloro)propane	ug/Kg	360	U	410	U	390	U
2,3,4,6-Tetrachlorophenol	ug/Kg						
2,6-Dichlorophenol	ug/Kg						
2-Methylnaphthalene	ug/Kg	360	U	410	U	390	U
2-Methylphenol (o-Cresol)	ug/Kg	360	U	410	U	390	U
2-Naphthylamine	ug/Kg						
2-Picoline	ug/Kg						
3,3-Dimethylbenzidine	ug/Kg						
3-Methyl cholanthrene	ug/Kg						
3-Methylphenol (m-Cresol)	ug/Kg						
4-Aminobiphenyl	ug/Kg						
4-Nitroquinoline 1-oxide	ug/Kg						
5-Nitro-o-toluidine	ug/Kg						
7,12-Dimethylbenz(a)anthracene	ug/Kg						
a,a-Dimethylphenethylamine	ug/Kg						
Acetamidofluorene	ug/Kg						
Acetophenone	ug/Kg						
Aniline	ug/Kg						
Aramite	ug/Kg						
Carbazole	ug/Kg						
Chlorobenzilate	ug/Kg						
Diphenylamine	ug/Kg						
Ethyl methacrylate	ug/Kg						
Ethyl methanesulfonate	ug/Kg						
Hexachlorophene	ug/Kg						
Hexachloropropene	ug/Kg						

	StationID	G643SB015		G643SB015		G643SB015	
	SampleID	643SB01501 (0-1ft)		643SB01501DL (0-1ft)		643SB01502 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/29/99		12/28/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
1,2,3-Trichloropropane	ug/Kg						
1,2,4,5-Tetrachlorobenzene	ug/Kg						
1,3,5-Trinitrobenzene	ug/Kg						
1,3-Dinitrobenzene	ug/Kg						
1,4-Naphthoquinone	ug/Kg						
1-Naphthylamine	ug/Kg						
2,2'-Oxybis(1-chloro)propane	ug/Kg						
2,3,4,6-Tetrachlorophenol	ug/Kg						
2,6-Dichlorophenol	ug/Kg						
2-Methylnaphthalene	ug/Kg	38	U	77	R	41	U
2-Methylphenol (o-Cresol)	ug/Kg						
2-Naphthylamine	ug/Kg						
2-Picoline	ug/Kg						
3,3-Dimethylbenzidine	ug/Kg						
3-Methyl cholanthrene	ug/Kg						
3-Methylphenol (m-Cresol)	ug/Kg						
4-Aminobiphenyl	ug/Kg						
4-Nitroquinoline 1-oxide	ug/Kg						
5-Nitro-o-toluidine	ug/Kg						
7,12-Dimethylbenz(a)anthracene	ug/Kg						
a,a-Dimethylphenethylamine	ug/Kg						
Acetamidofluorene	ug/Kg						
Acetophenone	ug/Kg						
Aniline	ug/Kg						
Aramite	ug/Kg						
Carbazole	ug/Kg						
Chlorobenzilate	ug/Kg						
Diphenylamine	ug/Kg						
Ethyl methacrylate	ug/Kg						
Ethyl methanesulfonate	ug/Kg						
Hexachlorophene	ug/Kg						
Hexachloropropene	ug/Kg						

	StationID	G643SB015		G643SB016		G643SB016	
	SampleID	643SB01502DL (3-5ft)		643SB01601 (0-1ft)		643SB01601DL (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/29/99		12/28/99		12/29/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
1,2,3-Trichloropropane	ug/Kg						
1,2,4,5-Tetrachlorobenzene	ug/Kg						
1,3,5-Trinitrobenzene	ug/Kg						
1,3-Dinitrobenzene	ug/Kg						
1,4-Naphthoquinone	ug/Kg						
1-Naphthylamine	ug/Kg						
2,2'-Oxybis(1-chloro)propane	ug/Kg						
2,3,4,6-Tetrachlorophenol	ug/Kg						
2,6-Dichlorophenol	ug/Kg						
2-Methylnaphthalene	ug/Kg	81	R	37	U	73	R
2-Methylphenol (o-Cresol)	ug/Kg						
2-Naphthylamine	ug/Kg						
2-Picoline	ug/Kg						
3,3-Dimethylbenzidine	ug/Kg						
3-Methyl cholanthrene	ug/Kg						
3-Methylphenol (m-Cresol)	ug/Kg						
4-Aminobiphenyl	ug/Kg						
4-Nitroquinoline 1-oxide	ug/Kg						
5-Nitro-o-toluidine	ug/Kg						
7,12-Dimethylbenz(a)anthracene	ug/Kg						
a,a-Dimethylphenethylamine	ug/Kg						
Acetamidofluorene	ug/Kg						
Acetophenone	ug/Kg						
Aniline	ug/Kg						
Aramite	ug/Kg						
Carbazole	ug/Kg						
Chlorobenzilate	ug/Kg						
Diphenylamine	ug/Kg						
Ethyl methacrylate	ug/Kg						
Ethyl methanesulfonate	ug/Kg						
Hexachlorophene	ug/Kg						
Hexachloropropene	ug/Kg						

	StationID	G643SB016		G643SB016		G643SB017	
	SampleID	643SB01602 (3-5ft)		643SB01602DL (3-5ft)		643SB01701 (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/29/99		12/28/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
1,2,3-Trichloropropane	ug/Kg						
1,2,4,5-Tetrachlorobenzene	ug/Kg						
1,3,5-Trinitrobenzene	ug/Kg						
1,3-Dinitrobenzene	ug/Kg						
1,4-Naphthoquinone	ug/Kg						
1-Naphthylamine	ug/Kg						
2,2'-Oxybis(1-chloro)propane	ug/Kg						
2,3,4,6-Tetrachlorophenol	ug/Kg						
2,6-Dichlorophenol	ug/Kg						
2-Methylnaphthalene	ug/Kg	39	U	78	R	75	U
2-Methylphenol (o-Cresol)	ug/Kg						
2-Naphthylamine	ug/Kg						
2-Picoline	ug/Kg						
3,3-Dimethylbenzidine	ug/Kg						
3-Methyl cholanthrene	ug/Kg						
3-Methylphenol (m-Cresol)	ug/Kg						
4-Aminobiphenyl	ug/Kg						
4-Nitroquinoline 1-oxide	ug/Kg						
5-Nitro-o-toluidine	ug/Kg						
7,12-Dimethylbenz(a)anthracene	ug/Kg						
a,a-Dimethylphenethylamine	ug/Kg						
Acetamidofluorene	ug/Kg						
Acetophenone	ug/Kg						
Aniline	ug/Kg						
Aramite	ug/Kg						
Carbazole	ug/Kg						
Chlorobenzilate	ug/Kg						
Diphenylamine	ug/Kg						
Ethyl methacrylate	ug/Kg						
Ethyl methanesulfonate	ug/Kg						
Hexachlorophene	ug/Kg						
Hexachloropropene	ug/Kg						

	StationID	G643SB017		G643SB018		G643SB018	
	SampleID	643SB01702 (3-5ft)		643SB01801 (0-1ft)		643SB01801DL (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/28/99		12/29/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
1,2,3-Trichloropropane	ug/Kg						
1,2,4,5-Tetrachlorobenzene	ug/Kg						
1,3,5-Trinitrobenzene	ug/Kg						
1,3-Dinitrobenzene	ug/Kg						
1,4-Naphthoquinone	ug/Kg						
1-Naphthylamine	ug/Kg						
2,2'-Oxybis(1-chloro)propane	ug/Kg						
2,3,4,6-Tetrachlorophenol	ug/Kg						
2,6-Dichlorophenol	ug/Kg						
2-Methylnaphthalene	ug/Kg	43	U	36	U	72	R
2-Methylphenol (o-Cresol)	ug/Kg						
2-Naphthylamine	ug/Kg						
2-Picoline	ug/Kg						
3,3-Dimethylbenzidine	ug/Kg						
3-Methyl cholanthrene	ug/Kg						
3-Methylphenol (m-Cresol)	ug/Kg						
4-Aminobiphenyl	ug/Kg						
4-Nitroquinoline 1-oxide	ug/Kg						
5-Nitro-o-toluidine	ug/Kg						
7,12-Dimethylbenz(a)anthracene	ug/Kg						
a,a-Dimethylphenethylamine	ug/Kg						
Acetamidofluorene	ug/Kg						
Acetophenone	ug/Kg						
Aniline	ug/Kg						
Aramite	ug/Kg						
Carbazole	ug/Kg						
Chlorobenzilate	ug/Kg						
Diphenylamine	ug/Kg						
Ethyl methacrylate	ug/Kg						
Ethyl methanesulfonate	ug/Kg						
Hexachlorophene	ug/Kg						
Hexachloropropene	ug/Kg						

	StationID	G643SB018		G643SB019		G643SB019	
	SampleID	643SB01802 (3-5ft)		643SB01901 (0-1ft)		643SB01901DL (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		1/3/00		1/3/00	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
1,2,3-Trichloropropane	ug/Kg						
1,2,4,5-Tetrachlorobenzene	ug/Kg						
1,3,5-Trinitrobenzene	ug/Kg						
1,3-Dinitrobenzene	ug/Kg						
1,4-Naphthoquinone	ug/Kg						
1-Naphthylamine	ug/Kg						
2,2'-Oxybis(1-chloro)propane	ug/Kg						
2,3,4,6-Tetrachlorophenol	ug/Kg						
2,6-Dichlorophenol	ug/Kg						
2-Methylnaphthalene	ug/Kg	38	U	560	U	1100	R
2-Methylphenol (o-Cresol)	ug/Kg						
2-Naphthylamine	ug/Kg						
2-Picoline	ug/Kg						
3,3-Dimethylbenzidine	ug/Kg						
3-Methyl cholanthrene	ug/Kg						
3-Methylphenol (m-Cresol)	ug/Kg						
4-Aminobiphenyl	ug/Kg						
4-Nitroquinoline 1-oxide	ug/Kg						
5-Nitro-o-toluidine	ug/Kg						
7,12-Dimethylbenz(a)anthracene	ug/Kg						
a,a-Dimethylphenethylamine	ug/Kg						
Acetamidofluorene	ug/Kg						
Acetophenone	ug/Kg						
Aniline	ug/Kg						
Aramite	ug/Kg						
Carbazole	ug/Kg						
Chlorobenzilate	ug/Kg						
Diphenylamine	ug/Kg						
Ethyl methacrylate	ug/Kg						
Ethyl methanesulfonate	ug/Kg						
Hexachlorophene	ug/Kg						
Hexachloropropene	ug/Kg						

	StationID	G643SB019		G643SB020		G643SB020	
	SampleID	643SB01902 (3-5ft)		643SB02001 (0-1ft)		643SB02002 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/28/99		12/28/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
1,2,3-Trichloropropane	ug/Kg						
1,2,4,5-Tetrachlorobenzene	ug/Kg						
1,3,5-Trinitrobenzene	ug/Kg						
1,3-Dinitrobenzene	ug/Kg						
1,4-Naphthoquinone	ug/Kg						
1-Naphthylamine	ug/Kg						
2,2'-Oxybis(1-chloro)propane	ug/Kg						
2,3,4,6-Tetrachlorophenol	ug/Kg						
2,6-Dichlorophenol	ug/Kg						
2-Methylnaphthalene	ug/Kg	46	U	39	U	44	U
2-Methylphenol (o-Cresol)	ug/Kg						
2-Naphthylamine	ug/Kg						
2-Picoline	ug/Kg						
3,3-Dimethylbenzidine	ug/Kg						
3-Methyl cholanthrene	ug/Kg						
3-Methylphenol (m-Cresol)	ug/Kg						
4-Aminobiphenyl	ug/Kg						
4-Nitroquinoline 1-oxide	ug/Kg						
5-Nitro-o-toluidine	ug/Kg						
7,12-Dimethylbenz(a)anthracene	ug/Kg						
a,a-Dimethylphenethylamine	ug/Kg						
Acetamidofluorene	ug/Kg						
Acetophenone	ug/Kg						
Aniline	ug/Kg						
Aramite	ug/Kg						
Carbazole	ug/Kg						
Chlorobenzilate	ug/Kg						
Diphenylamine	ug/Kg						
Ethyl methacrylate	ug/Kg						
Ethyl methanesulfonate	ug/Kg						
Hexachlorophene	ug/Kg						
Hexachloropropene	ug/Kg						

	StationID	G643SB021		G643SB021		G643SB022	
	SampleID	643SB02101 (0-1ft)		643SB02102 (3-5ft)		643SB02201 (0-1ft)	
	DateCollected	01/25/2000		01/25/2000		12/17/1999	
	DateAnalyzed	2/2/00		2/3/00		12/28/99	
	SDGNumber	41852		41852		EN037	
Parameter	**Units**						
1,2,3-Trichloropropane	ug/Kg						
1,2,4,5-Tetrachlorobenzene	ug/Kg						
1,3,5-Trinitrobenzene	ug/Kg						
1,3-Dinitrobenzene	ug/Kg						
1,4-Naphthoquinone	ug/Kg						
1-Naphthylamine	ug/Kg						
2,2'-Oxybis(1-chloro)propane	ug/Kg	410	U	410	U		
2,3,4,6-Tetrachlorophenol	ug/Kg						
2,6-Dichlorophenol	ug/Kg						
2-Methylnaphthalene	ug/Kg	41	J	410	U	40	U
2-Methylphenol (o-Cresol)	ug/Kg	410	U	410	U		
2-Naphthylamine	ug/Kg						
2-Picoline	ug/Kg						
3,3-Dimethylbenzidine	ug/Kg						
3-Methyl cholanthrene	ug/Kg						
3-Methylphenol (m-Cresol)	ug/Kg						
4-Aminobiphenyl	ug/Kg						
4-Nitroquinoline 1-oxide	ug/Kg						
5-Nitro-o-toluidine	ug/Kg						
7,12-Dimethylbenz(a)anthracene	ug/Kg						
a,a-Dimethylphenethylamine	ug/Kg						
Acetamidofluorene	ug/Kg						
Acetophenone	ug/Kg						
Aniline	ug/Kg						
Aramite	ug/Kg						
Carbazole	ug/Kg						
Chlorobenzilate	ug/Kg						
Diphenylamine	ug/Kg						
Ethyl methacrylate	ug/Kg						
Ethyl methanesulfonate	ug/Kg						
Hexachlorophene	ug/Kg						
Hexachloropropene	ug/Kg						

	StationID	G643SB022		G643SB023		G643SB023	
	SampleID	643SB02202 (3-5ft)		643SB02301 (0-1ft)		643SB02302 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/29/99		12/29/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
1,2,3-Trichloropropane	ug/Kg						
1,2,4,5-Tetrachlorobenzene	ug/Kg						
1,3,5-Trinitrobenzene	ug/Kg						
1,3-Dinitrobenzene	ug/Kg						
1,4-Naphthoquinone	ug/Kg						
1-Naphthylamine	ug/Kg						
2,2'-Oxybis(1-chloro)propane	ug/Kg						
2,3,4,6-Tetrachlorophenol	ug/Kg						
2,6-Dichlorophenol	ug/Kg						
2-Methylnaphthalene	ug/Kg	44	U	39	U	41	U
2-Methylphenol (o-Cresol)	ug/Kg						
2-Naphthylamine	ug/Kg						
2-Picoline	ug/Kg						
3,3-Dimethylbenzidine	ug/Kg						
3-Methyl cholanthrene	ug/Kg						
3-Methylphenol (m-Cresol)	ug/Kg						
4-Aminobiphenyl	ug/Kg						
4-Nitroquinoline 1-oxide	ug/Kg						
5-Nitro-o-toluidine	ug/Kg						
7,12-Dimethylbenz(a)anthracene	ug/Kg						
a,a-Dimethylphenethylamine	ug/Kg						
Acetamidofluorene	ug/Kg						
Acetophenone	ug/Kg						
Aniline	ug/Kg						
Aramite	ug/Kg						
Carbazole	ug/Kg						
Chlorobenzilate	ug/Kg						
Diphenylamine	ug/Kg						
Ethyl methacrylate	ug/Kg						
Ethyl methanesulfonate	ug/Kg						
Hexachlorophene	ug/Kg						
Hexachloropropene	ug/Kg						

	StationID	G643SB025		G643SB025		G643SB025	
	SampleID	643SB02501 (0-1ft)		643SB02501DL (0-1ft)		643SB02502 (3-5ft)	
	DateCollected	01/25/2000		01/25/2000		01/25/2000	
	DateAnalyzed	2/4/00		2/4/00		2/3/00	
	SDGNumber	41852		41852		41852	
Parameter	**Units**						
1,2,3-Trichloropropane	ug/Kg						
1,2,4,5-Tetrachlorobenzene	ug/Kg						
1,3,5-Trinitrobenzene	ug/Kg						
1,3-Dinitrobenzene	ug/Kg						
1,4-Naphthoquinone	ug/Kg						
1-Naphthylamine	ug/Kg						
2,2'-Oxybis(1-chloro)propane	ug/Kg	4000	U	7900	R	560	U
2,3,4,6-Tetrachlorophenol	ug/Kg						
2,6-Dichlorophenol	ug/Kg						
2-Methylnaphthalene	ug/Kg	1100	J	980	R	560	U
2-Methylphenol (o-Cresol)	ug/Kg	4000	U	7900	R	560	U
2-Naphthylamine	ug/Kg						
2-Picoline	ug/Kg						
3,3-Dimethylbenzidine	ug/Kg						
3-Methyl cholanthrene	ug/Kg						
3-Methylphenol (m-Cresol)	ug/Kg						
4-Aminobiphenyl	ug/Kg						
4-Nitroquinoline 1-oxide	ug/Kg						
5-Nitro-o-toluidine	ug/Kg						
7,12-Dimethylbenz(a)anthracene	ug/Kg						
a,a-Dimethylphenethylamine	ug/Kg						
Acetamidofluorene	ug/Kg						
Acetophenone	ug/Kg						
Aniline	ug/Kg						
Aramite	ug/Kg						
Carbazole	ug/Kg						
Chlorobenzilate	ug/Kg						
Diphenylamine	ug/Kg						
Ethyl methacrylate	ug/Kg						
Ethyl methanesulfonate	ug/Kg						
Hexachlorophene	ug/Kg						
Hexachloropropene	ug/Kg						

	StationID	G643SB026		G643SB026		G643SB027	
	SampleID	643SB02601 (0-1ft)		643SB02602 (3-5ft)		643SB02701 (0-1ft)	
	DateCollected	01/25/2000		01/25/2000		01/25/2000	
	DateAnalyzed	2/4/00		2/3/00		2/3/00	
	SDGNumber	41852		41852		41852	
Parameter	**Units**						
1,2,3-Trichloropropane	ug/Kg						
1,2,4,5-Tetrachlorobenzene	ug/Kg						
1,3,5-Trinitrobenzene	ug/Kg						
1,3-Dinitrobenzene	ug/Kg						
1,4-Naphthoquinone	ug/Kg						
1-Naphthylamine	ug/Kg						
2,2'-Oxybis(1-chloro)propane	ug/Kg	830	U	400	U	400	U
2,3,4,6-Tetrachlorophenol	ug/Kg						
2,6-Dichlorophenol	ug/Kg						
2-Methylnaphthalene	ug/Kg	830	U	400	U	400	U
2-Methylphenol (o-Cresol)	ug/Kg	830	U	400	U	400	U
2-Naphthylamine	ug/Kg						
2-Picoline	ug/Kg						
3,3-Dimethylbenzidine	ug/Kg						
3-Methyl cholanthrene	ug/Kg						
3-Methylphenol (m-Cresol)	ug/Kg						
4-Aminobiphenyl	ug/Kg						
4-Nitroquinoline 1-oxide	ug/Kg						
5-Nitro-o-toluidine	ug/Kg						
7,12-Dimethylbenz(a)anthracene	ug/Kg						
a,a-Dimethylphenethylamine	ug/Kg						
Acetamidofluorene	ug/Kg						
Acetophenone	ug/Kg						
Aniline	ug/Kg						
Aramite	ug/Kg						
Carbazole	ug/Kg						
Chlorobenzilate	ug/Kg						
Diphenylamine	ug/Kg						
Ethyl methacrylate	ug/Kg						
Ethyl methanesulfonate	ug/Kg						
Hexachlorophene	ug/Kg						
Hexachloropropene	ug/Kg						

	StationID	G643SB027	
	SampleID	643SB02702 (3-5ft)	
	DateCollected	01/25/2000	
	DateAnalyzed	2/2/00	
	SDGNumber	41852	
Parameter	**Units**		
1,2,3-Trichloropropane	ug/Kg		
1,2,4,5-Tetrachlorobenzene	ug/Kg		
1,3,5-Trinitrobenzene	ug/Kg		
1,3-Dinitrobenzene	ug/Kg		
1,4-Naphthoquinone	ug/Kg		
1-Naphthylamine	ug/Kg		
2,2'-Oxybis(1-chloro)propane	ug/Kg	480	U
2,3,4,6-Tetrachlorophenol	ug/Kg		
2,6-Dichlorophenol	ug/Kg		
2-Methylnaphthalene	ug/Kg	480	U
2-Methylphenol (o-Cresol)	ug/Kg	480	U
2-Naphthylamine	ug/Kg		
2-Picoline	ug/Kg		
3,3-Dimethylbenzidine	ug/Kg		
3-Methyl cholanthrene	ug/Kg		
3-Methylphenol (m-Cresol)	ug/Kg		
4-Aminobiphenyl	ug/Kg		
4-Nitroquinoline 1-oxide	ug/Kg		
5-Nitro-o-toluidine	ug/Kg		
7,12-Dimethylbenz(a)anthracene	ug/Kg		
a,a-Dimethylphenethylamine	ug/Kg		
Acetamidofluorene	ug/Kg		
Acetophenone	ug/Kg		
Aniline	ug/Kg		
Aramite	ug/Kg		
Carbazole	ug/Kg		
Chlorobenzilate	ug/Kg		
Diphenylamine	ug/Kg		
Ethyl methacrylate	ug/Kg		
Ethyl methanesulfonate	ug/Kg		
Hexachlorophene	ug/Kg		
Hexachloropropene	ug/Kg		

	StationID	G643SB008		G643SB008		G643SB009	
	SampleID	643SB00801 (0-1ft)		643SB00802 (3-5ft)		643CB00901 (0-1ft)	
	DateCollected	01/10/1997		01/10/1997		01/08/1997	
	DateAnalyzed	1/23/97		1/22/97		1/14/97	
	SDGNumber	28146		28146		28114	
Parameter	**Units**						
Isosafrole	ug/Kg						
Methapyrilene	ug/Kg						
Methyl methacrylate	ug/Kg					6	U
Methyl methanesulfonate	ug/Kg						
N-Nitroso-di-n-butylamine	ug/Kg						
N-Nitrosodiethylamine	ug/Kg						
N-Nitrosodimethylamine	ug/Kg						
N-Nitrosomethylethylamine	ug/Kg						
N-Nitrosomorpholine	ug/Kg						
o-Toluidine	ug/Kg						
p-(Dimethylamino)azobenzene	ug/Kg						
p-Phenylenediamine	ug/Kg						
Pentachlorobenzene	ug/Kg						
Pentachloroethane	ug/Kg					6	U
Pentachloronitrobenzene	ug/Kg						
Phenacetin	ug/Kg						
Pronamide	ug/Kg						
Pyridine	ug/Kg						
Safrole	ug/Kg						
Phenol	ug/Kg	380	U	490	U		
Acenaphthylene	ug/Kg	380	U	490	U		
bis(2-Chloroethyl) ether (2-Chloroethyl Ether)	ug/Kg	380	U	490	U		
2-Chlorophenol	ug/Kg	380	U	490	U		
Acenaphthene	ug/Kg	380	U	490	U		
1,3-Dichlorobenzene	ug/Kg	380	U	490	U		
Fluorene	ug/Kg	380	U	490	U		
1,4--Dichlorobenzene	ug/Kg	380	U	490	U		
Phenanthrene	ug/Kg	380	U	490	U		
Anthracene	ug/Kg	380	U	490	U		
Benzyl alcohol	ug/Kg	380	U	490	U		
Flouranthene	ug/Kg	380	U	490	U		
1,2-Dichlorobenzene	ug/Kg	380	U	490	U		

	StationID	G643SB009		G643SB009		G643SB009	
	SampleID	643CB00901 (0-1ft)		643SB00901 (0-1ft)		643SB00902 (3-5ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/20/97		1/15/97		1/15/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
Isosafrole	ug/Kg	380	UJ				
Methapyrilene	ug/Kg	750	U				
Methyl methacrylate	ug/Kg						
Methyl methanesulfonate	ug/Kg	1800	U				
N-Nitroso-di-n-butylamine	ug/Kg	380	U				
N-Nitrosodiethylamine	ug/Kg	380	U				
N-Nitrosodimethylamine	ug/Kg	380	U				
N-Nitrosomethylethylamine	ug/Kg	380	U				
N-Nitrosomorpholine	ug/Kg	380	U				
o-Toluidine	ug/Kg	380	U				
p-(Dimethylamino)azobenzene	ug/Kg	380	U				
p-Phenylenediamine	ug/Kg	1800	U				
Pentachlorobenzene	ug/Kg	380	UJ				
Pentachloroethane	ug/Kg						
Pentachloronitrobenzene	ug/Kg	1800	UJ				
Phenacetin	ug/Kg	380	U				
Pronamide	ug/Kg	380	UJ				
Pyridine	ug/Kg	380	U				
Safrole	ug/Kg	380	UJ				
Phenol	ug/Kg	380	U	370	U	410	U
Acenaphthylene	ug/Kg	380	U	370	U	410	U
bis(2-Chloroethyl) ether (2-Chloroethyl Ether)	ug/Kg	380	U	370	U	410	U
2-Chlorophenol	ug/Kg	380	U	370	U	410	U
Acenaphthene	ug/Kg	380	U	370	U	410	U
1,3-Dichlorobenzene	ug/Kg	380	U	370	U	410	U
Fluorene	ug/Kg	380	U	370	U	410	U
1,4--Dichlorobenzene	ug/Kg	380	U	370	U	410	U
Phenanthrene	ug/Kg	380	U	370	U	410	U
Anthracene	ug/Kg	380	U	370	U	410	U
Benzyl alcohol	ug/Kg	380	U	370	U	410	U
Flouranthene	ug/Kg	41	J	370	U	410	U
1,2-Dichlorobenzene	ug/Kg	380	U	370	U	410	U

	StationID	G643SB010		G643SB010		G643SB010	
	SampleID	643CB01001 (0-1ft)		643CB01001 (0-1ft)		643SB01001 (0-1ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/13/97		1/20/97		1/15/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
Isosafrole	ug/Kg			370	UJ		
Methapyrilene	ug/Kg			740	U		
Methyl methacrylate	ug/Kg	6	U				
Methyl methanesulfonate	ug/Kg			1800	U		
N-Nitroso-di-n-butylamine	ug/Kg			370	U		
N-Nitrosodiethylamine	ug/Kg			370	U		
N-Nitrosodimethylamine	ug/Kg			370	U		
N-Nitrosomethylethylamine	ug/Kg			370	U		
N-Nitrosomorpholine	ug/Kg			370	U		
o-Toluidine	ug/Kg			370	U		
p-(Dimethylamino)azobenzene	ug/Kg			370	U		
p-Phenylenediamine	ug/Kg			1800	U		
Pentachlorobenzene	ug/Kg			370	UJ		
Pentachloroethane	ug/Kg	6	U				
Pentachloronitrobenzene	ug/Kg			1800	UJ		
Phenacetin	ug/Kg			370	U		
Pronamide	ug/Kg			370	UJ		
Pyridine	ug/Kg			370	U		
Safrole	ug/Kg			370	UJ		
Phenol	ug/Kg			370	U	380	U
Acenaphthylene	ug/Kg			370	U	380	U
bis(2-Chloroethyl) ether (2-Chloroethyl Ether)	ug/Kg			370	U	380	U
2-Chlorophenol	ug/Kg			370	U	380	U
Acenaphthene	ug/Kg			370	U	380	U
1,3-Dichlorobenzene	ug/Kg			370	U	380	U
Fluorene	ug/Kg			370	U	380	U
1,4--Dichlorobenzene	ug/Kg			370	U	380	U
Phenanthrene	ug/Kg			370	U	270	J
Anthracene	ug/Kg			370	U	72	J
Benzyl alcohol	ug/Kg			370	U	380	U
Flouranthene	ug/Kg			370	U	500	=
1,2-Dichlorobenzene	ug/Kg			370	U	380	U

	StationID	G643SB010		G643SB011		G643SB011	
	SampleID	643SB01002 (3-5ft)		643SB01101 (0-1ft)		643SB01102 (3-5ft)	
	DateCollected	01/08/1997		01/10/1997		01/10/1997	
	DateAnalyzed	1/15/97		1/17/97		1/22/97	
	SDGNumber	28114		28146		28146	
Parameter	**Units**						
Isosafrole	ug/Kg						
Methapyrilene	ug/Kg						
Methyl methacrylate	ug/Kg						
Methyl methanesulfonate	ug/Kg						
N-Nitroso-di-n-butylamine	ug/Kg						
N-Nitrosodiethylamine	ug/Kg						
N-Nitrosodimethylamine	ug/Kg						
N-Nitrosomethylethylamine	ug/Kg						
N-Nitrosomorpholine	ug/Kg						
o-Toluidine	ug/Kg						
p-(Dimethylamino)azobenzene	ug/Kg						
p-Phenylenediamine	ug/Kg						
Pentachlorobenzene	ug/Kg						
Pentachloroethane	ug/Kg						
Pentachloronitrobenzene	ug/Kg						
Phenacetin	ug/Kg						
Pronamide	ug/Kg						
Pyridine	ug/Kg						
Safrole	ug/Kg						
Phenol	ug/Kg	390	U	370	U	440	U
Acenaphthylene	ug/Kg	390	U	370	U	440	U
bis(2-Chloroethyl) ether (2-Chloroethyl Ether)	ug/Kg	390	U	370	U	440	U
2-Chlorophenol	ug/Kg	390	U	370	U	440	U
Acenaphthene	ug/Kg	390	U	370	U	440	U
1,3-Dichlorobenzene	ug/Kg	390	U	370	U	440	U
Fluorene	ug/Kg	390	U	370	U	440	U
1,4--Dichlorobenzene	ug/Kg	390	U	370	U	440	U
Phenanthrene	ug/Kg	390	U	370	U	440	U
Anthracene	ug/Kg	390	U	370	U	440	U
Benzyl alcohol	ug/Kg	390	U	370	U	440	U
Flouranthene	ug/Kg	390	U	370	U	440	U
1,2-Dichlorobenzene	ug/Kg	390	U	370	U	440	U

	StationID	G643SB012		G643SB012		G643SB014	
	SampleID	643SB01201 (0-1ft)		643SB01202 (3-5ft)		643SB01401a (0-1ft)	
	DateCollected	01/08/1997		01/08/1997		01/25/2000	
	DateAnalyzed	1/15/97		1/15/97		2/2/00	
	SDGNumber	28114		28114		41852	
Parameter	**Units**						
Isosafrole	ug/Kg						
Methapyrilene	ug/Kg						
Methyl methacrylate	ug/Kg						
Methyl methanesulfonate	ug/Kg						
N-Nitroso-di-n-butylamine	ug/Kg						
N-Nitrosodiethylamine	ug/Kg						
N-Nitrosodimethylamine	ug/Kg						
N-Nitrosomethylethylamine	ug/Kg						
N-Nitrosomorpholine	ug/Kg						
o-Toluidine	ug/Kg						
p-(Dimethylamino)azobenzene	ug/Kg						
p-Phenylenediamine	ug/Kg						
Pentachlorobenzene	ug/Kg						
Pentachloroethane	ug/Kg						
Pentachloronitrobenzene	ug/Kg						
Phenacetin	ug/Kg						
Pronamide	ug/Kg						
Pyridine	ug/Kg						
Safrole	ug/Kg						
Phenol	ug/Kg	360	U	410	U	390	U
Acenaphthylene	ug/Kg	360	U	410	U	390	U
bis(2-Chloroethyl) ether (2-Chloroethyl Ether)	ug/Kg	360	U	410	U	390	U
2-Chlorophenol	ug/Kg	360	U	410	U	390	U
Acenaphthene	ug/Kg	360	U	410	U	390	U
1,3-Dichlorobenzene	ug/Kg	360	U	410	U	390	U
Fluorene	ug/Kg	360	U	410	U	390	U
1,4--Dichlorobenzene	ug/Kg	360	U	410	U	390	U
Phenanthrene	ug/Kg	190	J	410	U	61	J
Anthracene	ug/Kg	48	J	410	U	22	J
Benzyl alcohol	ug/Kg	360	U	410	U	390	U
Flouranthene	ug/Kg	380	=	410	U	140	J
1,2-Dichlorobenzene	ug/Kg	360	U	410	U	390	U

	StationID	G643SB015		G643SB015		G643SB015	
	SampleID	643SB01501 (0-1ft)		643SB01501DL (0-1ft)		643SB01502 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/29/99		12/28/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Isosafrole	ug/Kg						
Methapyrilene	ug/Kg						
Methyl methacrylate	ug/Kg						
Methyl methanesulfonate	ug/Kg						
N-Nitroso-di-n-butylamine	ug/Kg						
N-Nitrosodiethylamine	ug/Kg						
N-Nitrosodimethylamine	ug/Kg						
N-Nitrosomethylethylamine	ug/Kg						
N-Nitrosomorpholine	ug/Kg						
o-Toluidine	ug/Kg						
p-(Dimethylamino)azobenzene	ug/Kg						
p-Phenylenediamine	ug/Kg						
Pentachlorobenzene	ug/Kg						
Pentachloroethane	ug/Kg						
Pentachloronitrobenzene	ug/Kg						
Phenacetin	ug/Kg						
Pronamide	ug/Kg						
Pyridine	ug/Kg						
Safrole	ug/Kg						
Phenol	ug/Kg						
Acenaphthylene	ug/Kg	190	=	180	R	41	U
bis(2-Chloroethyl) ether (2-Chloroethyl Ether)	ug/Kg						
2-Chlorophenol	ug/Kg						
Acenaphthene	ug/Kg	20	J	77	R	41	U
1,3-Dichlorobenzene	ug/Kg						
Fluorene	ug/Kg	38	U	77	R	41	U
1,4--Dichlorobenzene	ug/Kg						
Phenanthrene	ug/Kg	36	J	43	R	22	J
Anthracene	ug/Kg	100	=	86	R	41	U
Benzyl alcohol	ug/Kg						
Flouranthene	ug/Kg	1100	=	1200	R	43	=
1,2-Dichlorobenzene	ug/Kg						

	StationID	G643SB015		G643SB016		G643SB016	
	SampleID	643SB01502DL (3-5ft)		643SB01601 (0-1ft)		643SB01601DL (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/29/99		12/28/99		12/29/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Isosafrole	ug/Kg						
Methapyrilene	ug/Kg						
Methyl methacrylate	ug/Kg						
Methyl methanesulfonate	ug/Kg						
N-Nitroso-di-n-butylamine	ug/Kg						
N-Nitrosodiethylamine	ug/Kg						
N-Nitrosodimethylamine	ug/Kg						
N-Nitrosomethylethylamine	ug/Kg						
N-Nitrosomorpholine	ug/Kg						
o-Toluidine	ug/Kg						
p-(Dimethylamino)azobenzene	ug/Kg						
p-Phenylenediamine	ug/Kg						
Pentachlorobenzene	ug/Kg						
Pentachloroethane	ug/Kg						
Pentachloronitrobenzene	ug/Kg						
Phenacetin	ug/Kg						
Pronamide	ug/Kg						
Pyridine	ug/Kg						
Safrole	ug/Kg						
Phenol	ug/Kg						
Acenaphthylene	ug/Kg	81	R	37	U	73	R
bis(2-Chloroethyl) ether (2-Chloroethyl Ether)	ug/Kg						
2-Chlorophenol	ug/Kg						
Acenaphthene	ug/Kg	81	R	37	U	73	R
1,3-Dichlorobenzene	ug/Kg						
Fluorene	ug/Kg	81	R	37	U	73	R
1,4--Dichlorobenzene	ug/Kg						
Phenanthrene	ug/Kg	81	R	58	=	64	R
Anthracene	ug/Kg	81	R	37	U	73	R
Benzyl alcohol	ug/Kg						
Flouranthene	ug/Kg	49	R	110	=	130	R
1,2-Dichlorobenzene	ug/Kg						

	StationID	G643SB016		G643SB016		G643SB017	
	SampleID	643SB01602 (3-5ft)		643SB01602DL (3-5ft)		643SB01701 (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/29/99		12/28/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Isosafrole	ug/Kg						
Methapyrilene	ug/Kg						
Methyl methacrylate	ug/Kg						
Methyl methanesulfonate	ug/Kg						
N-Nitroso-di-n-butylamine	ug/Kg						
N-Nitrosodiethylamine	ug/Kg						
N-Nitrosodimethylamine	ug/Kg						
N-Nitrosomethylethylamine	ug/Kg						
N-Nitrosomorpholine	ug/Kg						
o-Toluidine	ug/Kg						
p-(Dimethylamino)azobenzene	ug/Kg						
p-Phenylenediamine	ug/Kg						
Pentachlorobenzene	ug/Kg						
Pentachloroethane	ug/Kg						
Pentachloronitrobenzene	ug/Kg						
Phenacetin	ug/Kg						
Pronamide	ug/Kg						
Pyridine	ug/Kg						
Safrole	ug/Kg						
Phenol	ug/Kg						
Acenaphthylene	ug/Kg	39	U	78	R	75	U
bis(2-Chloroethyl) ether (2-Chloroethyl Ether)	ug/Kg						
2-Chlorophenol	ug/Kg						
Acenaphthene	ug/Kg	39	U	78	R	75	U
1,3-Dichlorobenzene	ug/Kg						
Fluorene	ug/Kg	39	U	78	R	75	U
1,4--Dichlorobenzene	ug/Kg						
Phenanthrene	ug/Kg	51	=	53	R	75	U
Anthracene	ug/Kg	39	U	78	R	75	U
Benzyl alcohol	ug/Kg						
Flouranthene	ug/Kg	92	=	110	R	75	U
1,2-Dichlorobenzene	ug/Kg						

	StationID	G643SB017		G643SB018		G643SB018	
	SampleID	643SB01702 (3-5ft)		643SB01801 (0-1ft)		643SB01801DL (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/28/99		12/29/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Isosafrole	ug/Kg						
Methapyrilene	ug/Kg						
Methyl methacrylate	ug/Kg						
Methyl methanesulfonate	ug/Kg						
N-Nitroso-di-n-butylamine	ug/Kg						
N-Nitrosodiethylamine	ug/Kg						
N-Nitrosodimethylamine	ug/Kg						
N-Nitrosomethylethylamine	ug/Kg						
N-Nitrosomorpholine	ug/Kg						
o-Toluidine	ug/Kg						
p-(Dimethylamino)azobenzene	ug/Kg						
p-Phenylenediamine	ug/Kg						
Pentachlorobenzene	ug/Kg						
Pentachloroethane	ug/Kg						
Pentachloronitrobenzene	ug/Kg						
Phenacetin	ug/Kg						
Pronamide	ug/Kg						
Pyridine	ug/Kg						
Safrole	ug/Kg						
Phenol	ug/Kg						
Acenaphthylene	ug/Kg	43	U	36	U	72	R
bis(2-Chloroethyl) ether (2-Chloroethyl Ether)	ug/Kg						
2-Chlorophenol	ug/Kg						
Acenaphthene	ug/Kg	43	U	36	U	72	R
1,3-Dichlorobenzene	ug/Kg						
Fluorene	ug/Kg	43	U	36	U	72	R
1,4--Dichlorobenzene	ug/Kg						
Phenanthrene	ug/Kg	43	U	160	=	160	R
Anthracene	ug/Kg	43	U	29	J	72	R
Benzyl alcohol	ug/Kg						
Flouranthene	ug/Kg	43	U	240	=	240	R
1,2-Dichlorobenzene	ug/Kg						

	StationID	G643SB018		G643SB019		G643SB019	
	SampleID	643SB01802 (3-5ft)		643SB01901 (0-1ft)		643SB01901DL (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		1/3/00		1/3/00	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Isosafrole	ug/Kg						
Methapyrilene	ug/Kg						
Methyl methacrylate	ug/Kg						
Methyl methanesulfonate	ug/Kg						
N-Nitroso-di-n-butylamine	ug/Kg						
N-Nitrosodiethylamine	ug/Kg						
N-Nitrosodimethylamine	ug/Kg						
N-Nitrosomethylethylamine	ug/Kg						
N-Nitrosomorpholine	ug/Kg						
o-Toluidine	ug/Kg						
p-(Dimethylamino)azobenzene	ug/Kg						
p-Phenylenediamine	ug/Kg						
Pentachlorobenzene	ug/Kg						
Pentachloroethane	ug/Kg						
Pentachloronitrobenzene	ug/Kg						
Phenacetin	ug/Kg						
Pronamide	ug/Kg						
Pyridine	ug/Kg						
Safrole	ug/Kg						
Phenol	ug/Kg						
Acenaphthylene	ug/Kg	38	U	560	U	1100	R
bis(2-Chloroethyl) ether (2-Chloroethyl Ether)	ug/Kg						
2-Chlorophenol	ug/Kg						
Acenaphthene	ug/Kg	38	U	560	U	1100	R
1,3-Dichlorobenzene	ug/Kg						
Fluorene	ug/Kg	38	U	560	U	1100	R
1,4--Dichlorobenzene	ug/Kg						
Phenanthrene	ug/Kg	37	J	560	U	1100	R
Anthracene	ug/Kg	38	U	560	U	1100	R
Benzyl alcohol	ug/Kg						
Flouranthene	ug/Kg	89	=	560	U	1100	R
1,2-Dichlorobenzene	ug/Kg						

	StationID	G643SB019		G643SB020		G643SB020	
	SampleID	643SB01902 (3-5ft)		643SB02001 (0-1ft)		643SB02002 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/28/99		12/28/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Isosafrole	ug/Kg						
Methapyrilene	ug/Kg						
Methyl methacrylate	ug/Kg						
Methyl methanesulfonate	ug/Kg						
N-Nitroso-di-n-butylamine	ug/Kg						
N-Nitrosodiethylamine	ug/Kg						
N-Nitrosodimethylamine	ug/Kg						
N-Nitrosomethylethylamine	ug/Kg						
N-Nitrosomorpholine	ug/Kg						
o-Toluidine	ug/Kg						
p-(Dimethylamino)azobenzene	ug/Kg						
p-Phenylenediamine	ug/Kg						
Pentachlorobenzene	ug/Kg						
Pentachloroethane	ug/Kg						
Pentachloronitrobenzene	ug/Kg						
Phenacetin	ug/Kg						
Pronamide	ug/Kg						
Pyridine	ug/Kg						
Safrole	ug/Kg						
Phenol	ug/Kg						
Acenaphthylene	ug/Kg	46	U	39	U	44	U
bis(2-Chloroethyl) ether (2-Chloroethyl Ether)	ug/Kg						
2-Chlorophenol	ug/Kg						
Acenaphthene	ug/Kg	46	U	39	U	44	U
1,3-Dichlorobenzene	ug/Kg						
Fluorene	ug/Kg	46	U	39	U	44	U
1,4--Dichlorobenzene	ug/Kg						
Phenanthrene	ug/Kg	46	U	39	U	44	U
Anthracene	ug/Kg	46	U	39	U	44	U
Benzyl alcohol	ug/Kg						
Flouranthene	ug/Kg	46	U	39	U	44	U
1,2-Dichlorobenzene	ug/Kg						

	StationID	G643SB021		G643SB021		G643SB022	
	SampleID	643SB02101 (0-1ft)		643SB02102 (3-5ft)		643SB02201 (0-1ft)	
	DateCollected	01/25/2000		01/25/2000		12/17/1999	
	DateAnalyzed	2/2/00		2/3/00		12/28/99	
	SDGNumber	41852		41852		EN037	
Parameter	**Units**						
Isosafrole	ug/Kg						
Methapyrilene	ug/Kg						
Methyl methacrylate	ug/Kg						
Methyl methanesulfonate	ug/Kg						
N-Nitroso-di-n-butylamine	ug/Kg						
N-Nitrosodiethylamine	ug/Kg						
N-Nitrosodimethylamine	ug/Kg						
N-Nitrosomethylethylamine	ug/Kg						
N-Nitrosomorpholine	ug/Kg						
o-Toluidine	ug/Kg						
p-(Dimethylamino)azobenzene	ug/Kg						
p-Phenylenediamine	ug/Kg						
Pentachlorobenzene	ug/Kg						
Pentachloroethane	ug/Kg						
Pentachloronitrobenzene	ug/Kg						
Phenacetin	ug/Kg						
Pronamide	ug/Kg						
Pyridine	ug/Kg						
Safrole	ug/Kg						
Phenol	ug/Kg	410	U	410	U		
Acenaphthylene	ug/Kg	25	J	410	U	40	U
bis(2-Chloroethyl) ether (2-Chloroethyl Ether)	ug/Kg	410	U	410	U		
2-Chlorophenol	ug/Kg	410	U	410	U		
Acenaphthene	ug/Kg	220	J	410	U	40	U
1,3-Dichlorobenzene	ug/Kg	410	U	410	U		
Fluorene	ug/Kg	180	J	410	U	40	U
1,4--Dichlorobenzene	ug/Kg	410	U	410	U		
Phenanthrene	ug/Kg	980	J	61	J	40	U
Anthracene	ug/Kg	270	J	22	J	40	U
Benzyl alcohol	ug/Kg	410	U	410	U		
Flouranthene	ug/Kg	1300	J	91	J	40	U
1,2-Dichlorobenzene	ug/Kg	410	U	410	U		

	StationID	G643SB022		G643SB023		G643SB023	
	SampleID	643SB02202 (3-5ft)		643SB02301 (0-1ft)		643SB02302 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/29/99		12/29/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Isosafrole	ug/Kg						
Methapyrilene	ug/Kg						
Methyl methacrylate	ug/Kg						
Methyl methanesulfonate	ug/Kg						
N-Nitroso-di-n-butylamine	ug/Kg						
N-Nitrosodiethylamine	ug/Kg						
N-Nitrosodimethylamine	ug/Kg						
N-Nitrosomethylethylamine	ug/Kg						
N-Nitrosomorpholine	ug/Kg						
o-Toluidine	ug/Kg						
p-(Dimethylamino)azobenzene	ug/Kg						
p-Phenylenediamine	ug/Kg						
Pentachlorobenzene	ug/Kg						
Pentachloroethane	ug/Kg						
Pentachloronitrobenzene	ug/Kg						
Phenacetin	ug/Kg						
Pronamide	ug/Kg						
Pyridine	ug/Kg						
Safrole	ug/Kg						
Phenol	ug/Kg						
Acenaphthylene	ug/Kg	44	U	39	U	58	=
bis(2-Chloroethyl) ether (2-Chloroethyl Ether)	ug/Kg						
2-Chlorophenol	ug/Kg						
Acenaphthene	ug/Kg	44	U	39	U	41	U
1,3-Dichlorobenzene	ug/Kg						
Fluorene	ug/Kg	44	U	39	U	41	U
1,4--Dichlorobenzene	ug/Kg						
Phenanthrene	ug/Kg	44	U	60	=	31	J
Anthracene	ug/Kg	44	U	39	U	160	=
Benzyl alcohol	ug/Kg						
Flouranthene	ug/Kg	44	U	81	=	41	U
1,2-Dichlorobenzene	ug/Kg						

	StationID	G643SB025		G643SB025		G643SB025	
	SampleID	643SB02501 (0-1ft)		643SB02501DL (0-1ft)		643SB02502 (3-5ft)	
	DateCollected	01/25/2000		01/25/2000		01/25/2000	
	DateAnalyzed	2/4/00		2/4/00		2/3/00	
	SDGNumber	41852		41852		41852	
Parameter	**Units**						
Isosafrole	ug/Kg						
Methapyrilene	ug/Kg						
Methyl methacrylate	ug/Kg						
Methyl methanesulfonate	ug/Kg						
N-Nitroso-di-n-butylamine	ug/Kg						
N-Nitrosodiethylamine	ug/Kg						
N-Nitrosodimethylamine	ug/Kg						
N-Nitrosomethylethylamine	ug/Kg						
N-Nitrosomorpholine	ug/Kg						
o-Toluidine	ug/Kg						
p-(Dimethylamino)azobenzene	ug/Kg						
p-Phenylenediamine	ug/Kg						
Pentachlorobenzene	ug/Kg						
Pentachloroethane	ug/Kg						
Pentachloronitrobenzene	ug/Kg						
Phenacetin	ug/Kg						
Pronamide	ug/Kg						
Pyridine	ug/Kg						
Safrole	ug/Kg						
Phenol	ug/Kg	4000	U	7900	R	560	U
Acenaphthylene	ug/Kg	4000	U	7900	R	560	U
bis(2-Chloroethyl) ether (2-Chloroethyl Ether)	ug/Kg	4000	U	7900	R	560	U
2-Chlorophenol	ug/Kg	4000	U	7900	R	560	U
Acenaphthene	ug/Kg	6300	=	6200	R	560	U
1,3-Dichlorobenzene	ug/Kg	4000	U	7900	R	560	U
Fluorene	ug/Kg	4600	=	4700	R	560	U
1,4--Dichlorobenzene	ug/Kg	4000	U	7900	R	560	U
Phenanthrene	ug/Kg	28000	=	26000	R	79	J
Anthracene	ug/Kg	8200	=	7700	R	560	U
Benzyl alcohol	ug/Kg	4000	U	7900	R	560	U
Flouranthene	ug/Kg	33000	J	33000	R	91	J
1,2-Dichlorobenzene	ug/Kg	4000	U	7900	R	560	U

	StationID	G643SB026		G643SB026		G643SB027	
	SampleID	643SB02601 (0-1ft)		643SB02602 (3-5ft)		643SB02701 (0-1ft)	
	DateCollected	01/25/2000		01/25/2000		01/25/2000	
	DateAnalyzed	2/4/00		2/3/00		2/3/00	
	SDGNumber	41852		41852		41852	
Parameter	**Units**						
Isosafrole	ug/Kg						
Methapyrilene	ug/Kg						
Methyl methacrylate	ug/Kg						
Methyl methanesulfonate	ug/Kg						
N-Nitroso-di-n-butylamine	ug/Kg						
N-Nitrosodiethylamine	ug/Kg						
N-Nitrosodimethylamine	ug/Kg						
N-Nitrosomethylethylamine	ug/Kg						
N-Nitrosomorpholine	ug/Kg						
o-Toluidine	ug/Kg						
p-(Dimethylamino)azobenzene	ug/Kg						
p-Phenylenediamine	ug/Kg						
Pentachlorobenzene	ug/Kg						
Pentachloroethane	ug/Kg						
Pentachloronitrobenzene	ug/Kg						
Phenacetin	ug/Kg						
Pronamide	ug/Kg						
Pyridine	ug/Kg						
Safrole	ug/Kg						
Phenol	ug/Kg	830	U	400	U	400	U
Acenaphthylene	ug/Kg	830	U	400	U	400	U
bis(2-Chloroethyl) ether (2-Chloroethyl Ether)	ug/Kg	830	U	400	U	400	U
2-Chlorophenol	ug/Kg	830	U	400	U	400	U
Acenaphthene	ug/Kg	830	U	400	U	400	U
1,3-Dichlorobenzene	ug/Kg	830	U	400	U	400	U
Fluorene	ug/Kg	830	U	400	U	400	U
1,4--Dichlorobenzene	ug/Kg	830	U	400	U	400	U
Phenanthrene	ug/Kg	830	U	400	U	21	J
Anthracene	ug/Kg	830	U	400	U	400	U
Benzyl alcohol	ug/Kg	830	U	400	U	400	U
Flouranthene	ug/Kg	830	U	35	J	41	J
1,2-Dichlorobenzene	ug/Kg	830	U	400	U	400	U

	StationID	G643SB027	
	SampleID	643SB02702 (3-5ft)	
	DateCollected	01/25/2000	
	DateAnalyzed	2/2/00	
	SDGNumber	41852	
Parameter	**Units**		
Isosafrole	ug/Kg		
Methapyrilene	ug/Kg		
Methyl methacrylate	ug/Kg		
Methyl methanesulfonate	ug/Kg		
N-Nitroso-di-n-butylamine	ug/Kg		
N-Nitrosodiethylamine	ug/Kg		
N-Nitrosodimethylamine	ug/Kg		
N-Nitrosomethylethylamine	ug/Kg		
N-Nitrosomorpholine	ug/Kg		
o-Toluidine	ug/Kg		
p-(Dimethylamino)azobenzene	ug/Kg		
p-Phenylenediamine	ug/Kg		
Pentachlorobenzene	ug/Kg		
Pentachloroethane	ug/Kg		
Pentachloronitrobenzene	ug/Kg		
Phenacetin	ug/Kg		
Pronamide	ug/Kg		
Pyridine	ug/Kg		
Safrole	ug/Kg		
Phenol	ug/Kg	480	U
Acenaphthylene	ug/Kg	480	U
bis(2-Chloroethyl) ether (2-Chloroethyl Ether)	ug/Kg	480	U
2-Chlorophenol	ug/Kg	480	U
Acenaphthene	ug/Kg	480	U
1,3-Dichlorobenzene	ug/Kg	480	U
Fluorene	ug/Kg	480	U
1,4--Dichlorobenzene	ug/Kg	480	U
Phenanthrene	ug/Kg	480	U
Anthracene	ug/Kg	480	U
Benzyl alcohol	ug/Kg	480	U
Flouranthene	ug/Kg	480	U
1,2-Dichlorobenzene	ug/Kg	480	U

	StationID	G643SB008		G643SB008		G643SB009	
	SampleID	643SB00801 (0-1ft)		643SB00802 (3-5ft)		643CB00901 (0-1ft)	
	DateCollected	01/10/1997		01/10/1997		01/08/1997	
	DateAnalyzed	1/23/97		1/22/97		1/14/97	
	SDGNumber	28146		28146		28114	
Parameter	**Units**						
Pyrene	ug/Kg	380	U	490	U		
Benzo(a)Anthracene	ug/Kg	380	U	490	U		
Chrysene	ug/Kg	380	U	490	U		
Benzo(b)Fluoranthene	ug/Kg	380	U	490	U		
N-Nitrosodi-n-propylamine	ug/Kg	380	U	490	U		
N-Nitrosopyrrolidine	ug/Kg						
4-Methylphenol (p-Cresol)	ug/Kg	380	U	490	U		
Benzo(k)Fluoranthene	ug/Kg	380	U	490	U		
Benzo(a)Pyrene	ug/Kg	380	U	490	U		
Hexachloroethane	ug/Kg	380	U	490	U		
Indeno(1,2,3-c,d)pyrene	ug/Kg	380	U	490	U		
Nitrobenzene	ug/Kg	380	U	490	U		
Dibenz(a,h)anthracene	ug/Kg	380	U	490	U		
Isophorone	ug/Kg	380	U	490	U		
2-Nitrophenol	ug/Kg	380	U	490	U		
Benzo(g,h,i)Perylene	ug/Kg	380	U	490	U		
2,4-Dimethylphenol	ug/Kg	380	U	490	U		
bis(2-Chloroethoxy) Methane	ug/Kg	380	U	490	U		
Benzoic acid	ug/Kg	1900	UJ	2400	UJ		
2,4-Dichlorophenol	ug/Kg	380	U	490	U		
1,2,4--Trichlorobenzene	ug/Kg	380	U	490	U		
4-Chloroaniline	ug/Kg	380	U	490	U		
Hexachlorobutadiene	ug/Kg	380	U	490	U		
4-Chloro-3-methylphenol	ug/Kg	380	U	490	U		
Hexachlorocyclopentadiene	ug/Kg	380	U	490	U		
2,4,6-Trichlorophenol	ug/Kg	380	U	490	U		
2,4,5-Trichlorophenol	ug/Kg	1900	U	2400	U		
2-Chloronaphthalene	ug/Kg	380	U	490	U		
2-Nitroaniline	ug/Kg	1900	U	2400	U		
2,6-Dinitrotoluene	ug/Kg	380	U	490	U		
3-Nitroaniline	ug/Kg	1900	U	2400	U		
2,4-Dinitrophenol	ug/Kg	1900	U	2400	U		

	StationID	G643SB009		G643SB009		G643SB009	
	SampleID	643CB00901 (0-1ft)		643SB00901 (0-1ft)		643SB00902 (3-5ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/20/97		1/15/97		1/15/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
Pyrene	ug/Kg	380	U	370	U	410	U
Benzo(a)Anthracene	ug/Kg	380	U	370	U	410	U
Chrysene	ug/Kg	380	U	370	U	410	U
Benzo(b)Fluoranthene	ug/Kg	45	J	370	U	410	U
N-Nitrosodi-n-propylamine	ug/Kg	380	U	370	U	410	U
N-Nitrosopyrrolidine	ug/Kg	380	U				
4-Methylphenol (p-Cresol)	ug/Kg	380	U	370	U	410	U
Benzo(k)Fluoranthene	ug/Kg	380	U	370	U	410	U
Benzo(a)Pyrene	ug/Kg	380	U	370	U	410	U
Hexachloroethane	ug/Kg	380	U	370	U	410	U
Indeno(1,2,3-c,d)pyrene	ug/Kg	380	U	370	U	410	U
Nitrobenzene	ug/Kg	380	U	370	U	410	U
Dibenz(a,h)anthracene	ug/Kg	380	U	370	U	410	U
Isophorone	ug/Kg	380	U	370	U	410	U
2-Nitrophenol	ug/Kg	380	U	370	U	410	U
Benzo(g,h,i)Perylene	ug/Kg	380	U	370	U	410	U
2,4-Dimethylphenol	ug/Kg	380	U	370	U	410	U
bis(2-Chloroethoxy) Methane	ug/Kg	380	U	370	U	410	U
Benzoic acid	ug/Kg			1800	U	2000	U
2,4-Dichlorophenol	ug/Kg	380	U	370	U	410	U
1,2,4--Trichlorobenzene	ug/Kg	380	U	370	U	410	U
4-Chloroaniline	ug/Kg	380	U	370	U	410	U
Hexachlorobutadiene	ug/Kg	380	U	370	U	410	U
4-Chloro-3-methylphenol	ug/Kg	380	U	370	U	410	U
Hexachlorocyclopentadiene	ug/Kg	380	U	370	U	410	U
2,4,6-Trichlorophenol	ug/Kg	380	U	370	U	410	U
2,4,5-Trichlorophenol	ug/Kg	1800	U	1800	U	2000	U
2-Chloronaphthalene	ug/Kg	380	U	370	U	410	U
2-Nitroaniline	ug/Kg	1800	U	1800	U	2000	U
2,6-Dinitrotoluene	ug/Kg	380	U	370	U	410	U
3-Nitroaniline	ug/Kg	1800	U	1800	U	2000	U
2,4-Dinitrophenol	ug/Kg	1800	U	1800	U	2000	U

	StationID	G643SB010		G643SB010		G643SB010	
	SampleID	643CB01001 (0-1ft)		643CB01001 (0-1ft)		643SB01001 (0-1ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/13/97		1/20/97		1/15/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
Pyrene	ug/Kg			370	U	440	=
Benzo(a)Anthracene	ug/Kg			370	U	240	J
Chrysene	ug/Kg			370	U	330	J
Benzo(b)Fluoranthene	ug/Kg			370	U	330	J
N-Nitrosodi-n-propylamine	ug/Kg			370	U	380	U
N-Nitrosopyrrolidine	ug/Kg			370	U		
4-Methylphenol (p-Cresol)	ug/Kg			370	U	380	U
Benzo(k)Fluoranthene	ug/Kg			370	U	270	J
Benzo(a)Pyrene	ug/Kg			370	U	270	J
Hexachloroethane	ug/Kg			370	U	380	U
Indeno(1,2,3-c,d)pyrene	ug/Kg			370	U	170	J
Nitrobenzene	ug/Kg			370	U	380	U
Dibenz(a,h)anthracene	ug/Kg			370	U	100	J
Isophorone	ug/Kg			370	U	380	U
2-Nitrophenol	ug/Kg			370	U	380	U
Benzo(g,h,i)Perylene	ug/Kg			370	U	190	J
2,4-Dimethylphenol	ug/Kg			370	U	380	U
bis(2-Chloroethoxy) Methane	ug/Kg			370	U	380	U
Benzoic acid	ug/Kg					1900	U
2,4-Dichlorophenol	ug/Kg			370	U	380	U
1,2,4--Trichlorobenzene	ug/Kg			370	U	380	U
4-Chloroaniline	ug/Kg			370	U	380	U
Hexachlorobutadiene	ug/Kg			370	U	380	U
4-Chloro-3-methylphenol	ug/Kg			370	U	380	U
Hexachlorocyclopentadiene	ug/Kg			370	U	380	U
2,4,6-Trichlorophenol	ug/Kg			370	U	380	U
2,4,5-Trichlorophenol	ug/Kg			1800	U	1900	U
2-Chloronaphthalene	ug/Kg			370	U	380	U
2-Nitroaniline	ug/Kg			1800	U	1900	U
2,6-Dinitrotoluene	ug/Kg			370	U	380	U
3-Nitroaniline	ug/Kg			1800	U	1900	U
2,4-Dinitrophenol	ug/Kg			1800	U	1900	U

	StationID	G643SB010		G643SB011		G643SB011	
	SampleID	643SB01002 (3-5ft)		643SB01101 (0-1ft)		643SB01102 (3-5ft)	
	DateCollected	01/08/1997		01/10/1997		01/10/1997	
	DateAnalyzed	1/15/97		1/17/97		1/22/97	
	SDGNumber	28114		28146		28146	
Parameter	**Units**						
Pyrene	ug/Kg	390	U	370	U	440	U
Benzo(a)Anthracene	ug/Kg	390	U	370	U	440	U
Chrysene	ug/Kg	390	U	370	U	440	U
Benzo(b)Fluoranthene	ug/Kg	390	U	370	U	440	U
N-Nitrosodi-n-propylamine	ug/Kg	390	U	370	U	440	U
N-Nitrosopyrrolidine	ug/Kg						
4-Methylphenol (p-Cresol)	ug/Kg	390	U	370	U	440	U
Benzo(k)Fluoranthene	ug/Kg	390	U	370	U	440	U
Benzo(a)Pyrene	ug/Kg	390	U	370	U	440	U
Hexachloroethane	ug/Kg	390	U	370	U	440	U
Indeno(1,2,3-c,d)pyrene	ug/Kg	390	U	370	U	440	U
Nitrobenzene	ug/Kg	390	U	370	U	440	U
Dibenz(a,h)anthracene	ug/Kg	390	U	370	U	440	U
Isophorone	ug/Kg	390	U	370	U	440	U
2-Nitrophenol	ug/Kg	390	U	370	U	440	U
Benzo(g,h,i)Perylene	ug/Kg	390	U	370	U	440	U
2,4-Dimethylphenol	ug/Kg	390	U	370	U	440	U
bis(2-Chloroethoxy) Methane	ug/Kg	390	U	370	U	440	U
Benzoic acid	ug/Kg	1900	U	1800	U	2200	UJ
2,4-Dichlorophenol	ug/Kg	390	U	370	U	440	U
1,2,4--Trichlorobenzene	ug/Kg	390	U	370	U	440	U
4-Chloroaniline	ug/Kg	390	U	370	U	440	U
Hexachlorobutadiene	ug/Kg	390	U	370	U	440	U
4-Chloro-3-methylphenol	ug/Kg	390	U	370	U	440	U
Hexachlorocyclopentadiene	ug/Kg	390	U	370	UJ	440	U
2,4,6-Trichlorophenol	ug/Kg	390	U	370	U	440	U
2,4,5-Trichlorophenol	ug/Kg	1900	U	1800	U	2200	U
2-Chloronaphthalene	ug/Kg	390	U	370	U	440	U
2-Nitroaniline	ug/Kg	1900	U	1800	U	2200	U
2,6-Dinitrotoluene	ug/Kg	390	U	370	U	440	U
3-Nitroaniline	ug/Kg	1900	U	1800	U	2200	U
2,4-Dinitrophenol	ug/Kg	1900	U	1800	U	2200	U

	StationID	G643SB012		G643SB012		G643SB014	
	SampleID	643SB01201 (0-1ft)		643SB01202 (3-5ft)		643SB01401a (0-1ft)	
	DateCollected	01/08/1997		01/08/1997		01/25/2000	
	DateAnalyzed	1/15/97		1/15/97		2/2/00	
	SDGNumber	28114		28114		41852	
Parameter	**Units**						
Pyrene	ug/Kg	280	J	410	U	110	J
Benzo(a)Anthracene	ug/Kg	180	J	410	U	82	J
Chrysene	ug/Kg	230	J	410	U	87	J
Benzo(b)Fluoranthene	ug/Kg	240	J	410	U	110	J
N-Nitrosodi-n-propylamine	ug/Kg	360	U	410	U	390	U
N-Nitrosopyrrolidine	ug/Kg						
4-Methylphenol (p-Cresol)	ug/Kg	360	U	410	U	390	U
Benzo(k)Fluoranthene	ug/Kg	170	J	410	U	94	J
Benzo(a)Pyrene	ug/Kg	190	J	410	U	87	J
Hexachloroethane	ug/Kg	360	U	410	U	390	U
Indeno(1,2,3-c,d)pyrene	ug/Kg	120	J	410	U	47	J
Nitrobenzene	ug/Kg	360	U	410	U	390	U
Dibenz(a,h)anthracene	ug/Kg	69	J	410	U	390	U
Isophorone	ug/Kg	360	U	410	U	390	U
2-Nitrophenol	ug/Kg	360	U	410	U	390	U
Benzo(g,h,i)Perylene	ug/Kg	150	J	410	U	57	J
2,4-Dimethylphenol	ug/Kg	360	U	410	U	390	U
bis(2-Chloroethoxy) Methane	ug/Kg	360	U	410	U	390	U
Benzoic acid	ug/Kg	1800	U	2000	U	310	J
2,4-Dichlorophenol	ug/Kg	360	U	410	U	390	U
1,2,4--Trichlorobenzene	ug/Kg	360	U	410	U	390	U
4-Chloroaniline	ug/Kg	360	U	410	U	390	U
Hexachlorobutadiene	ug/Kg	360	U	410	U	390	U
4-Chloro-3-methylphenol	ug/Kg	360	U	410	U	390	U
Hexachlorocyclopentadiene	ug/Kg	360	U	410	U	390	U
2,4,6-Trichlorophenol	ug/Kg	360	U	410	U	390	U
2,4,5-Trichlorophenol	ug/Kg	1800	U	2000	U	970	U
2-Chloronaphthalene	ug/Kg	360	U	410	U	390	U
2-Nitroaniline	ug/Kg	1800	U	2000	U	970	U
2,6-Dinitrotoluene	ug/Kg	360	U	410	U	390	U
3-Nitroaniline	ug/Kg	1800	U	2000	U	970	U
2,4-Dinitrophenol	ug/Kg	1800	U	2000	U	970	U

	StationID	G643SB015		G643SB015		G643SB015	
	SampleID	643SB01501 (0-1ft)		643SB01501DL (0-1ft)		643SB01502 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/29/99		12/28/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Pyrene	ug/Kg	1500	=	1500	R	60	=
Benzo(a)Anthracene	ug/Kg	830	=	920	R	24	J
Chrysene	ug/Kg	1200	=	1300	R	30	J
Benzo(b)Fluoranthene	ug/Kg	1600	J	1700	R	62	J
N-Nitrosodi-n-propylamine	ug/Kg						
N-Nitrosopyrrolidine	ug/Kg						
4-Methylphenol (p-Cresol)	ug/Kg						
Benzo(k)Fluoranthene	ug/Kg	1500	J	1400	R	41	UJ
Benzo(a)Pyrene	ug/Kg	1200	J	1300	R	41	UJ
Hexachloroethane	ug/Kg						
Indeno(1,2,3-c,d)pyrene	ug/Kg	480	J	450	R	41	UJ
Nitrobenzene	ug/Kg						
Dibenz(a,h)anthracene	ug/Kg	260	J	270	R	41	UJ
Isophorone	ug/Kg						
2-Nitrophenol	ug/Kg						
Benzo(g,h,i)Perylene	ug/Kg	430	J	380	R	41	UJ
2,4-Dimethylphenol	ug/Kg						
bis(2-Chloroethoxy) Methane	ug/Kg						
Benzoic acid	ug/Kg						
2,4-Dichlorophenol	ug/Kg						
1,2,4--Trichlorobenzene	ug/Kg						
4-Chloroaniline	ug/Kg						
Hexachlorobutadiene	ug/Kg						
4-Chloro-3-methylphenol	ug/Kg						
Hexachlorocyclopentadiene	ug/Kg						
2,4,6-Trichlorophenol	ug/Kg						
2,4,5-Trichlorophenol	ug/Kg						
2-Chloronaphthalene	ug/Kg						
2-Nitroaniline	ug/Kg						
2,6-Dinitrotoluene	ug/Kg						
3-Nitroaniline	ug/Kg						
2,4-Dinitrophenol	ug/Kg						

	StationID	G643SB015		G643SB016		G643SB016	
	SampleID	643SB01502DL (3-5ft)		643SB01601 (0-1ft)		643SB01601DL (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/29/99		12/28/99		12/29/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Pyrene	ug/Kg	53	R	110	=	110	R
Benzo(a)Anthracene	ug/Kg	81	R	60	=	57	R
Chrysene	ug/Kg	81	R	66	=	81	R
Benzo(b)Fluoranthene	ug/Kg	81	R	88	J	71	R
N-Nitrosodi-n-propylamine	ug/Kg						
N-Nitrosopyrrolidine	ug/Kg						
4-Methylphenol (p-Cresol)	ug/Kg						
Benzo(k)Fluoranthene	ug/Kg	81	R	61	J	53	R
Benzo(a)Pyrene	ug/Kg	81	R	37	UJ	73	R
Hexachloroethane	ug/Kg						
Indeno(1,2,3-c,d)pyrene	ug/Kg	81	R	37	UJ	73	R
Nitrobenzene	ug/Kg						
Dibenz(a,h)anthracene	ug/Kg	81	R	37	UJ	73	R
Isophorone	ug/Kg						
2-Nitrophenol	ug/Kg						
Benzo(g,h,i)Perylene	ug/Kg	81	R	37	UJ	73	R
2,4-Dimethylphenol	ug/Kg						
bis(2-Chloroethoxy) Methane	ug/Kg						
Benzoic acid	ug/Kg						
2,4-Dichlorophenol	ug/Kg						
1,2,4--Trichlorobenzene	ug/Kg						
4-Chloroaniline	ug/Kg						
Hexachlorobutadiene	ug/Kg						
4-Chloro-3-methylphenol	ug/Kg						
Hexachlorocyclopentadiene	ug/Kg						
2,4,6-Trichlorophenol	ug/Kg						
2,4,5-Trichlorophenol	ug/Kg						
2-Chloronaphthalene	ug/Kg						
2-Nitroaniline	ug/Kg						
2,6-Dinitrotoluene	ug/Kg						
3-Nitroaniline	ug/Kg						
2,4-Dinitrophenol	ug/Kg						

	StationID	G643SB016		G643SB016		G643SB017	
	SampleID	643SB01602 (3-5ft)		643SB01602DL (3-5ft)		643SB01701 (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/29/99		12/28/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Pyrene	ug/Kg	140	=	120	R	89	=
Benzo(a)Anthracene	ug/Kg	67	=	64	R	75	U
Chrysene	ug/Kg	74	=	69	R	75	U
Benzo(b)Fluoranthene	ug/Kg	59	J	78	R	75	UJ
N-Nitrosodi-n-propylamine	ug/Kg						
N-Nitrosopyrrolidine	ug/Kg						
4-Methylphenol (p-Cresol)	ug/Kg						
Benzo(k)Fluoranthene	ug/Kg	68	J	57	R	75	UJ
Benzo(a)Pyrene	ug/Kg	39	UJ	78	R	75	UJ
Hexachloroethane	ug/Kg						
Indeno(1,2,3-c,d)pyrene	ug/Kg	39	UJ	78	R	75	UJ
Nitrobenzene	ug/Kg						
Dibenz(a,h)anthracene	ug/Kg	39	UJ	78	R	75	UJ
Isophorone	ug/Kg						
2-Nitrophenol	ug/Kg						
Benzo(g,h,i)Perylene	ug/Kg	39	UJ	78	R	75	UJ
2,4-Dimethylphenol	ug/Kg						
bis(2-Chloroethoxy) Methane	ug/Kg						
Benzoic acid	ug/Kg						
2,4-Dichlorophenol	ug/Kg						
1,2,4--Trichlorobenzene	ug/Kg						
4-Chloroaniline	ug/Kg						
Hexachlorobutadiene	ug/Kg						
4-Chloro-3-methylphenol	ug/Kg						
Hexachlorocyclopentadiene	ug/Kg						
2,4,6-Trichlorophenol	ug/Kg						
2,4,5-Trichlorophenol	ug/Kg						
2-Chloronaphthalene	ug/Kg						
2-Nitroaniline	ug/Kg						
2,6-Dinitrotoluene	ug/Kg						
3-Nitroaniline	ug/Kg						
2,4-Dinitrophenol	ug/Kg						

	StationID	G643SB017		G643SB018		G643SB018	
	SampleID	643SB01702 (3-5ft)		643SB01801 (0-1ft)		643SB01801DL (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/28/99		12/29/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Pyrene	ug/Kg	100	=	270	=	230	R
Benzo(a)Anthracene	ug/Kg	43	U	120	=	110	R
Chrysene	ug/Kg	25	J	160	=	140	R
Benzo(b)Fluoranthene	ug/Kg	43	UJ	170	J	160	R
N-Nitrosodi-n-propylamine	ug/Kg						
N-Nitrosopyrrolidine	ug/Kg						
4-Methylphenol (p-Cresol)	ug/Kg						
Benzo(k)Fluoranthene	ug/Kg	43	UJ	95	J	98	R
Benzo(a)Pyrene	ug/Kg	43	UJ	120	J	110	R
Hexachloroethane	ug/Kg						
Indeno(1,2,3-c,d)pyrene	ug/Kg	43	UJ	58	J	60	R
Nitrobenzene	ug/Kg						
Dibenz(a,h)anthracene	ug/Kg	43	UJ	32	J	72	R
Isophorone	ug/Kg						
2-Nitrophenol	ug/Kg						
Benzo(g,h,i)Perylene	ug/Kg	43	UJ	62	J	66	R
2,4-Dimethylphenol	ug/Kg						
bis(2-Chloroethoxy) Methane	ug/Kg						
Benzoic acid	ug/Kg						
2,4-Dichlorophenol	ug/Kg						
1,2,4--Trichlorobenzene	ug/Kg						
4-Chloroaniline	ug/Kg						
Hexachlorobutadiene	ug/Kg						
4-Chloro-3-methylphenol	ug/Kg						
Hexachlorocyclopentadiene	ug/Kg						
2,4,6-Trichlorophenol	ug/Kg						
2,4,5-Trichlorophenol	ug/Kg						
2-Chloronaphthalene	ug/Kg						
2-Nitroaniline	ug/Kg						
2,6-Dinitrotoluene	ug/Kg						
3-Nitroaniline	ug/Kg						
2,4-Dinitrophenol	ug/Kg						

	StationID	G643SB018		G643SB019		G643SB019	
	SampleID	643SB01802 (3-5ft)		643SB01901 (0-1ft)		643SB01901DL (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		1/3/00		1/3/00	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Pyrene	ug/Kg	85	=	560	U	1100	R
Benzo(a)Anthracene	ug/Kg	42	=	560	U	1100	R
Chrysene	ug/Kg	51	=	560	U	1100	R
Benzo(b)Fluoranthene	ug/Kg	49	=	560	UJ	1100	R
N-Nitrosodi-n-propylamine	ug/Kg						
N-Nitrosopyrrolidine	ug/Kg						
4-Methylphenol (p-Cresol)	ug/Kg						
Benzo(k)Fluoranthene	ug/Kg	53	=	560	UJ	1100	R
Benzo(a)Pyrene	ug/Kg	38	U	560	UJ	1100	R
Hexachloroethane	ug/Kg						
Indeno(1,2,3-c,d)pyrene	ug/Kg	38	U	560	UJ	1100	R
Nitrobenzene	ug/Kg						
Dibenz(a,h)anthracene	ug/Kg	38	U	560	UJ	1100	R
Isophorone	ug/Kg						
2-Nitrophenol	ug/Kg						
Benzo(g,h,i)Perylene	ug/Kg	38	U	560	UJ	1100	R
2,4-Dimethylphenol	ug/Kg						
bis(2-Chloroethoxy) Methane	ug/Kg						
Benzoic acid	ug/Kg						
2,4-Dichlorophenol	ug/Kg						
1,2,4--Trichlorobenzene	ug/Kg						
4-Chloroaniline	ug/Kg						
Hexachlorobutadiene	ug/Kg						
4-Chloro-3-methylphenol	ug/Kg						
Hexachlorocyclopentadiene	ug/Kg						
2,4,6-Trichlorophenol	ug/Kg						
2,4,5-Trichlorophenol	ug/Kg						
2-Chloronaphthalene	ug/Kg						
2-Nitroaniline	ug/Kg						
2,6-Dinitrotoluene	ug/Kg						
3-Nitroaniline	ug/Kg						
2,4-Dinitrophenol	ug/Kg						

	StationID	G643SB019		G643SB020		G643SB020	
	SampleID	643SB01902 (3-5ft)		643SB02001 (0-1ft)		643SB02002 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/28/99		12/28/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Pyrene	ug/Kg	46	U	20	J	44	U
Benzo(a)Anthracene	ug/Kg	46	U	39	U	44	U
Chrysene	ug/Kg	46	U	19	J	44	U
Benzo(b)Fluoranthene	ug/Kg	46	U	39	U	44	UJ
N-Nitrosodi-n-propylamine	ug/Kg						
N-Nitrosopyrrolidine	ug/Kg						
4-Methylphenol (p-Cresol)	ug/Kg						
Benzo(k)Fluoranthene	ug/Kg	46	U	39	U	44	UJ
Benzo(a)Pyrene	ug/Kg	46	U	39	U	44	UJ
Hexachloroethane	ug/Kg						
Indeno(1,2,3-c,d)pyrene	ug/Kg	46	U	39	U	44	UJ
Nitrobenzene	ug/Kg						
Dibenz(a,h)anthracene	ug/Kg	46	U	39	U	44	UJ
Isophorone	ug/Kg						
2-Nitrophenol	ug/Kg						
Benzo(g,h,i)Perylene	ug/Kg	46	U	39	U	44	UJ
2,4-Dimethylphenol	ug/Kg						
bis(2-Chloroethoxy) Methane	ug/Kg						
Benzoic acid	ug/Kg						
2,4-Dichlorophenol	ug/Kg						
1,2,4--Trichlorobenzene	ug/Kg						
4-Chloroaniline	ug/Kg						
Hexachlorobutadiene	ug/Kg						
4-Chloro-3-methylphenol	ug/Kg						
Hexachlorocyclopentadiene	ug/Kg						
2,4,6-Trichlorophenol	ug/Kg						
2,4,5-Trichlorophenol	ug/Kg						
2-Chloronaphthalene	ug/Kg						
2-Nitroaniline	ug/Kg						
2,6-Dinitrotoluene	ug/Kg						
3-Nitroaniline	ug/Kg						
2,4-Dinitrophenol	ug/Kg						

	StationID	G643SB021		G643SB021		G643SB022	
	SampleID	643SB02101 (0-1ft)		643SB02102 (3-5ft)		643SB02201 (0-1ft)	
	DateCollected	01/25/2000		01/25/2000		12/17/1999	
	DateAnalyzed	2/2/00		2/3/00		12/28/99	
	SDGNumber	41852		41852		EN037	
Parameter	**Units**						
Pyrene	ug/Kg	720	=	120	J	40	U
Benzo(a)Anthracene	ug/Kg	590	=	60	J	40	U
Chrysene	ug/Kg	580	=	70	J	40	U
Benzo(b)Fluoranthene	ug/Kg	510	=	43	J	40	UJ
N-Nitrosodi-n-propylamine	ug/Kg	410	U	410	U		
N-Nitrosopyrrolidine	ug/Kg						
4-Methylphenol (p-Cresol)	ug/Kg	410	U	410	U		
Benzo(k)Fluoranthene	ug/Kg	370	J	41	J	40	UJ
Benzo(a)Pyrene	ug/Kg	480	=	52	J	40	UJ
Hexachloroethane	ug/Kg	410	U	410	U		
Indeno(1,2,3-c,d)pyrene	ug/Kg	240	J	38	J	40	UJ
Nitrobenzene	ug/Kg	410	U	410	U		
Dibenz(a,h)anthracene	ug/Kg	110	J	410	U	40	UJ
Isophorone	ug/Kg	410	U	410	U		
2-Nitrophenol	ug/Kg	410	U	410	U		
Benzo(g,h,i)Perylene	ug/Kg	290	J	61	J	40	UJ
2,4-Dimethylphenol	ug/Kg	410	U	410	U		
bis(2-Chloroethoxy) Methane	ug/Kg	410	UJ	410	U		
Benzoic acid	ug/Kg	410	UJ	40	J		
2,4-Dichlorophenol	ug/Kg	410	UJ	410	U		
1,2,4--Trichlorobenzene	ug/Kg	410	UJ	410	U		
4-Chloroaniline	ug/Kg	410	UJ	410	U		
Hexachlorobutadiene	ug/Kg	410	UJ	410	U		
4-Chloro-3-methylphenol	ug/Kg	410	UJ	410	U		
Hexachlorocyclopentadiene	ug/Kg	410	UJ	410	U		
2,4,6-Trichlorophenol	ug/Kg	410	UJ	410	U		
2,4,5-Trichlorophenol	ug/Kg	1000	UJ	1000	U		
2-Chloronaphthalene	ug/Kg	410	UJ	410	U		
2-Nitroaniline	ug/Kg	1000	UJ	1000	U		
2,6-Dinitrotoluene	ug/Kg	410	UJ	410	U		
3-Nitroaniline	ug/Kg	1000	UJ	1000	U		
2,4-Dinitrophenol	ug/Kg	1000	UJ	1000	U		

	StationID	G643SB022		G643SB023		G643SB023	
	SampleID	643SB02202 (3-5ft)		643SB02301 (0-1ft)		643SB02302 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/29/99		12/29/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Pyrene	ug/Kg	44	U	74	=	330	=
Benzo(a)Anthracene	ug/Kg	44	U	22	J	130	=
Chrysene	ug/Kg	44	U	55	=	250	=
Benzo(b)Fluoranthene	ug/Kg	44	U	60	=	430	=
N-Nitrosodi-n-propylamine	ug/Kg						
N-Nitrosopyrrolidine	ug/Kg						
4-Methylphenol (p-Cresol)	ug/Kg						
Benzo(k)Fluoranthene	ug/Kg	44	U	40	=	320	=
Benzo(a)Pyrene	ug/Kg	44	U	38	J	260	=
Hexachloroethane	ug/Kg						
Indeno(1,2,3-c,d)pyrene	ug/Kg	44	U	36	J	230	=
Nitrobenzene	ug/Kg						
Dibenz(a,h)anthracene	ug/Kg	44	U	39	U	93	=
Isophorone	ug/Kg						
2-Nitrophenol	ug/Kg						
Benzo(g,h,i)Perylene	ug/Kg	44	U	46	=	260	=
2,4-Dimethylphenol	ug/Kg						
bis(2-Chloroethoxy) Methane	ug/Kg						
Benzoic acid	ug/Kg						
2,4-Dichlorophenol	ug/Kg						
1,2,4--Trichlorobenzene	ug/Kg						
4-Chloroaniline	ug/Kg						
Hexachlorobutadiene	ug/Kg						
4-Chloro-3-methylphenol	ug/Kg						
Hexachlorocyclopentadiene	ug/Kg						
2,4,6-Trichlorophenol	ug/Kg						
2,4,5-Trichlorophenol	ug/Kg						
2-Chloronaphthalene	ug/Kg						
2-Nitroaniline	ug/Kg						
2,6-Dinitrotoluene	ug/Kg						
3-Nitroaniline	ug/Kg						
2,4-Dinitrophenol	ug/Kg						

	StationID	G643SB025		G643SB025		G643SB025	
	SampleID	643SB02501 (0-1ft)		643SB02501DL (0-1ft)		643SB02502 (3-5ft)	
	DateCollected	01/25/2000		01/25/2000		01/25/2000	
	DateAnalyzed	2/4/00		2/4/00		2/3/00	
	SDGNumber	41852		41852		41852	
Parameter	**Units**						
Pyrene	ug/Kg	18000	=	20000	R	71	J
Benzo(a)Anthracene	ug/Kg	17000	=	16000	R	60	J
Chrysene	ug/Kg	17000	=	15000	R	57	J
Benzo(b)Fluoranthene	ug/Kg	13000	=	10000	R	46	J
N-Nitrosodi-n-propylamine	ug/Kg	4000	U	7900	R	560	U
N-Nitrosopyrrolidine	ug/Kg						
4-Methylphenol (p-Cresol)	ug/Kg	4000	U	7900	R	560	U
Benzo(k)Fluoranthene	ug/Kg	9700	=	9700	R	35	J
Benzo(a)Pyrene	ug/Kg	13000	=	12000	R	560	U
Hexachloroethane	ug/Kg	4000	U	7900	R	560	U
Indeno(1,2,3-c,d)pyrene	ug/Kg	7600	=	7100	R	29	J
Nitrobenzene	ug/Kg	4000	U	7900	R	560	U
Dibenz(a,h)anthracene	ug/Kg	4200	=	4200	R	560	U
Isophorone	ug/Kg	4000	U	7900	R	560	U
2-Nitrophenol	ug/Kg	4000	U	7900	R	560	U
Benzo(g,h,i)Perylene	ug/Kg	7500	=	7100	R	34	J
2,4-Dimethylphenol	ug/Kg	4000	U	7900	R	560	U
bis(2-Chloroethoxy) Methane	ug/Kg	4000	U	7900	R	560	U
Benzoic acid	ug/Kg	4000	U	7900	R	110	J
2,4-Dichlorophenol	ug/Kg	4000	U	7900	R	560	U
1,2,4--Trichlorobenzene	ug/Kg	4000	U	7900	R	560	U
4-Chloroaniline	ug/Kg	4000	U	7900	R	560	U
Hexachlorobutadiene	ug/Kg	4000	U	7900	R	560	U
4-Chloro-3-methylphenol	ug/Kg	4000	U	7900	R	560	U
Hexachlorocyclopentadiene	ug/Kg	4000	U	7900	R	560	U
2,4,6-Trichlorophenol	ug/Kg	4000	U	7900	R	560	U
2,4,5-Trichlorophenol	ug/Kg	9900	U	20000	R	1400	U
2-Chloronaphthalene	ug/Kg	4000	U	7900	R	560	U
2-Nitroaniline	ug/Kg	9900	U	20000	R	1400	U
2,6-Dinitrotoluene	ug/Kg	4000	U	7900	R	560	U
3-Nitroaniline	ug/Kg	9900	U	20000	R	1400	U
2,4-Dinitrophenol	ug/Kg	9900	U	20000	R	1400	U

	StationID	G643SB026		G643SB026		G643SB027	
	SampleID	643SB02601 (0-1ft)		643SB02602 (3-5ft)		643SB02701 (0-1ft)	
	DateCollected	01/25/2000		01/25/2000		01/25/2000	
	DateAnalyzed	2/4/00		2/3/00		2/3/00	
	SDGNumber	41852		41852		41852	
Parameter	**Units**						
Pyrene	ug/Kg	830	U	160	J	50	J
Benzo(a)Anthracene	ug/Kg	830	U	400	U	20	J
Chrysene	ug/Kg	830	U	63	J	30	J
Benzo(b)Fluoranthene	ug/Kg	830	U	42	J	30	J
N-Nitrosodi-n-propylamine	ug/Kg	830	U	400	U	400	U
N-Nitrosopyrrolidine	ug/Kg						
4-Methylphenol (p-Cresol)	ug/Kg	830	U	400	U	400	U
Benzo(k)Fluoranthene	ug/Kg	830	U	400	U	25	J
Benzo(a)Pyrene	ug/Kg	830	U	33	J	24	J
Hexachloroethane	ug/Kg	830	U	400	U	400	U
Indeno(1,2,3-c,d)pyrene	ug/Kg	830	U	37	J	22	J
Nitrobenzene	ug/Kg	830	U	400	U	400	U
Dibenz(a,h)anthracene	ug/Kg	830	U	400	U	400	U
Isophorone	ug/Kg	830	U	400	U	400	U
2-Nitrophenol	ug/Kg	830	U	400	U	400	U
Benzo(g,h,i)Perylene	ug/Kg	90	J	62	J	41	J
2,4-Dimethylphenol	ug/Kg	830	U	400	U	400	U
bis(2-Chloroethoxy) Methane	ug/Kg	830	U	400	U	400	U
Benzoic acid	ug/Kg	830	U	56	J	95	J
2,4-Dichlorophenol	ug/Kg	830	U	400	U	400	U
1,2,4--Trichlorobenzene	ug/Kg	830	U	400	U	400	U
4-Chloroaniline	ug/Kg	830	U	400	U	400	U
Hexachlorobutadiene	ug/Kg	830	U	400	U	400	U
4-Chloro-3-methylphenol	ug/Kg	830	U	400	U	400	U
Hexachlorocyclopentadiene	ug/Kg	830	U	400	U	400	U
2,4,6-Trichlorophenol	ug/Kg	830	U	400	U	400	U
2,4,5-Trichlorophenol	ug/Kg	2100	U	1000	U	1000	U
2-Chloronaphthalene	ug/Kg	830	U	400	U	400	U
2-Nitroaniline	ug/Kg	2100	U	1000	U	1000	U
2,6-Dinitrotoluene	ug/Kg	830	U	400	U	400	U
3-Nitroaniline	ug/Kg	2100	U	1000	U	1000	U
2,4-Dinitrophenol	ug/Kg	2100	U	1000	U	1000	U

	StationID	G643SB027	
	SampleID	643SB02702 (3-5ft)	
	DateCollected	01/25/2000	
	DateAnalyzed	2/2/00	
	SDGNumber	41852	
Parameter	**Units**		
Pyrene	ug/Kg	480	U
Benzo(a)Anthracene	ug/Kg	480	U
Chrysene	ug/Kg	480	U
Benzo(b)Fluoranthene	ug/Kg	480	U
N-Nitrosodi-n-propylamine	ug/Kg	480	U
N-Nitrosopyrrolidine	ug/Kg		
4-Methylphenol (p-Cresol)	ug/Kg	480	U
Benzo(k)Fluoranthene	ug/Kg	480	U
Benzo(a)Pyrene	ug/Kg	28	J
Hexachloroethane	ug/Kg	480	U
Indeno(1,2,3-c,d)pyrene	ug/Kg	480	U
Nitrobenzene	ug/Kg	480	U
Dibenz(a,h)anthracene	ug/Kg	480	U
Isophorone	ug/Kg	480	U
2-Nitrophenol	ug/Kg	480	U
Benzo(g,h,i)Perylene	ug/Kg	480	U
2,4-Dimethylphenol	ug/Kg	480	U
bis(2-Chloroethoxy) Methane	ug/Kg	480	U
Benzoic acid	ug/Kg	740	=
2,4-Dichlorophenol	ug/Kg	480	U
1,2,4--Trichlorobenzene	ug/Kg	480	U
4-Chloroaniline	ug/Kg	480	U
Hexachlorobutadiene	ug/Kg	480	U
4-Chloro-3-methylphenol	ug/Kg	480	U
Hexachlorocyclopentadiene	ug/Kg	480	U
2,4,6-Trichlorophenol	ug/Kg	480	U
2,4,5-Trichlorophenol	ug/Kg	1200	U
2-Chloronaphthalene	ug/Kg	480	U
2-Nitroaniline	ug/Kg	1200	U
2,6-Dinitrotoluene	ug/Kg	480	U
3-Nitroaniline	ug/Kg	1200	U
2,4-Dinitrophenol	ug/Kg	1200	U

	StationID	G643SB008		G643SB008		G643SB009	
	SampleID	643SB00801 (0-1ft)		643SB00802 (3-5ft)		643CB00901 (0-1ft)	
	DateCollected	01/10/1997		01/10/1997		01/08/1997	
	DateAnalyzed	1/23/97		1/22/97		1/14/97	
	SDGNumber	28146		28146		28114	
Parameter	**Units**						
Dibenzofuran	ug/Kg	380	U	490	U		
4-Nitrophenol	ug/Kg	1900	U	2400	U		
2,4-Dinitrotoluene	ug/Kg	380	U	490	U		
Dimethyl Phthalate	ug/Kg	380	U	490	U		
Diethyl Phthalate	ug/Kg	380	U	490	U		
4-Chlorophenyl Phenyl Ether	ug/Kg	380	U	490	U		
4-Nitroaniline	ug/Kg	1900	U	2400	U		
4,6-Dinitro-2-methylphenol	ug/Kg	1900	U	2400	U		
N-Nitrosodiphenylamine	ug/Kg	380	U	490	U		
N-Nitrosopiperidine	ug/Kg						
4-Bromophenyl Phenyl Ether	ug/Kg	380	U	490	U		
Hexachlorobenzene	ug/Kg	380	U	490	U		
Pentachlorophenol	ug/Kg	1900	U	2400	U		
Di-n-butyl Phthalate	ug/Kg	380	U	490	U		
Benzyl Butyl Phthalate	ug/Kg	380	U	490	U		
3,3'-Dichlorobenzidine	ug/Kg	770	U	980	U		
bis(2-Ethylhexyl) Phthalate	ug/Kg	380	U	490	U		
Di-n-octylphthalate	ug/Kg	380	U	490	U		

	StationID	G643SB009		G643SB009		G643SB009	
	SampleID	643CB00901 (0-1ft)		643SB00901 (0-1ft)		643SB00902 (3-5ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/20/97		1/15/97		1/15/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
Dibenzofuran	ug/Kg	380	U	370	U	410	U
4-Nitrophenol	ug/Kg	1800	U	1800	U	2000	U
2,4-Dinitrotoluene	ug/Kg	380	U	370	U	410	U
Dimethyl Phthalate	ug/Kg	380	U	370	U	410	U
Diethyl Phthalate	ug/Kg	380	U	370	U	410	U
4-Chlorophenyl Phenyl Ether	ug/Kg	380	U	370	U	410	U
4-Nitroaniline	ug/Kg	1800	U	1800	U	2000	U
4,6-Dinitro-2-methylphenol	ug/Kg	1800	U	1800	U	2000	U
N-Nitrosodiphenylamine	ug/Kg	380	U	370	U	410	U
N-Nitrosopiperidine	ug/Kg	380	U				
4-Bromophenyl Phenyl Ether	ug/Kg	380	U	370	U	410	U
Hexachlorobenzene	ug/Kg	380	U	370	U	410	U
Pentachlorophenol	ug/Kg	1800	U	1800	U	2000	U
Di-n-butyl Phthalate	ug/Kg	380	U	370	U	410	U
Benzyl Butyl Phthalate	ug/Kg	380	U	370	U	410	U
3,3'-Dichlorobenzidine	ug/Kg	750	U	730	U	810	U
bis(2-Ethylhexyl) Phthalate	ug/Kg	380	U	370	U	410	U
Di-n-octylphthalate	ug/Kg	380	U	370	U	410	U

	StationID	G643SB010		G643SB010		G643SB010	
	SampleID	643CB01001 (0-1ft)		643CB01001 (0-1ft)		643SB01001 (0-1ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/13/97		1/20/97		1/15/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
Dibenzofuran	ug/Kg			370	U	380	U
4-Nitrophenol	ug/Kg			1800	U	1900	U
2,4-Dinitrotoluene	ug/Kg			370	U	380	U
Dimethyl Phthalate	ug/Kg			370	U	380	U
Diethyl Phthalate	ug/Kg			370	U	380	U
4-Chlorophenyl Phenyl Ether	ug/Kg			370	U	380	U
4-Nitroaniline	ug/Kg			1800	U	1900	U
4,6-Dinitro-2-methylphenol	ug/Kg			1800	U	1900	U
N-Nitrosodiphenylamine	ug/Kg			370	U	380	U
N-Nitrosopiperidine	ug/Kg			370	U		
4-Bromophenyl Phenyl Ether	ug/Kg			370	U	380	U
Hexachlorobenzene	ug/Kg			370	U	380	U
Pentachlorophenol	ug/Kg			1800	U	1900	U
Di-n-butyl Phthalate	ug/Kg			370	U	40	J
Benzyl Butyl Phthalate	ug/Kg			370	U	380	U
3,3'-Dichlorobenzidine	ug/Kg			740	U	770	U
bis(2-Ethylhexyl) Phthalate	ug/Kg			370	U	380	U
Di-n-octylphthalate	ug/Kg			370	U	380	U

	StationID	G643SB010		G643SB011		G643SB011	
	SampleID	643SB01002 (3-5ft)		643SB01101 (0-1ft)		643SB01102 (3-5ft)	
	DateCollected	01/08/1997		01/10/1997		01/10/1997	
	DateAnalyzed	1/15/97		1/17/97		1/22/97	
	SDGNumber	28114		28146		28146	
Parameter	**Units**						
Dibenzofuran	ug/Kg	390	U	370	U	440	U
4-Nitrophenol	ug/Kg	1900	U	1800	U	2200	U
2,4-Dinitrotoluene	ug/Kg	390	U	370	U	440	U
Dimethyl Phthalate	ug/Kg	390	U	370	U	440	U
Diethyl Phthalate	ug/Kg	390	U	370	U	440	U
4-Chlorophenyl Phenyl Ether	ug/Kg	390	U	370	U	440	U
4-Nitroaniline	ug/Kg	1900	U	1800	U	2200	U
4,6-Dinitro-2-methylphenol	ug/Kg	1900	U	1800	U	2200	U
N-Nitrosodiphenylamine	ug/Kg	390	U	370	U	440	U
N-Nitrosopiperidine	ug/Kg						
4-Bromophenyl Phenyl Ether	ug/Kg	390	U	370	U	440	U
Hexachlorobenzene	ug/Kg	390	U	370	U	440	U
Pentachlorophenol	ug/Kg	1900	U	1800	U	2200	U
Di-n-butyl Phthalate	ug/Kg	390	U	370	U	440	U
Benzyl Butyl Phthalate	ug/Kg	390	U	370	U	440	U
3,3'-Dichlorobenzidine	ug/Kg	780	U	740	U	890	U
bis(2-Ethylhexyl) Phthalate	ug/Kg	390	U	370	U	440	U
Di-n-octylphthalate	ug/Kg	390	U	370	U	440	U

	StationID	G643SB012		G643SB012		G643SB014	
	SampleID	643SB01201 (0-1ft)		643SB01202 (3-5ft)		643SB01401a (0-1ft)	
	DateCollected	01/08/1997		01/08/1997		01/25/2000	
	DateAnalyzed	1/15/97		1/15/97		2/2/00	
	SDGNumber	28114		28114		41852	
Parameter	**Units**						
Dibenzofuran	ug/Kg	360	U	410	U	390	U
4-Nitrophenol	ug/Kg	1800	U	2000	U	970	U
2,4-Dinitrotoluene	ug/Kg	360	U	410	U	390	U
Dimethyl Phthalate	ug/Kg	360	U	410	U	390	U
Diethyl Phthalate	ug/Kg	360	U	410	U	22	J
4-Chlorophenyl Phenyl Ether	ug/Kg	360	U	410	U	390	U
4-Nitroaniline	ug/Kg	1800	U	2000	U	970	U
4,6-Dinitro-2-methylphenol	ug/Kg	1800	U	2000	U	970	U
N-Nitrosodiphenylamine	ug/Kg	360	U	410	U	390	U
N-Nitrosopiperidine	ug/Kg						
4-Bromophenyl Phenyl Ether	ug/Kg	360	U	410	U	390	U
Hexachlorobenzene	ug/Kg	360	U	410	U	390	U
Pentachlorophenol	ug/Kg	1800	U	2000	U	970	U
Di-n-butyl Phthalate	ug/Kg	360	U	410	U	31	J
Benzyl Butyl Phthalate	ug/Kg	360	U	410	U	25	J
3,3'-Dichlorobenzidine	ug/Kg	720	U	820	U	390	U
bis(2-Ethylhexyl) Phthalate	ug/Kg	360	U	410	U	390	U
Di-n-octylphthalate	ug/Kg	360	U	410	U	390	U

	StationID	G643SB015		G643SB015		G643SB015	
	SampleID	643SB01501 (0-1ft)		643SB01501DL (0-1ft)		643SB01502 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/29/99		12/28/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	Units						
Dibenzofuran	ug/Kg						
4-Nitrophenol	ug/Kg						
2,4-Dinitrotoluene	ug/Kg						
Dimethyl Phthalate	ug/Kg						
Diethyl Phthalate	ug/Kg						
4-Chlorophenyl Phenyl Ether	ug/Kg						
4-Nitroaniline	ug/Kg						
4,6-Dinitro-2-methylphenol	ug/Kg						
N-Nitrosodiphenylamine	ug/Kg						
N-Nitrosopiperidine	ug/Kg						
4-Bromophenyl Phenyl Ether	ug/Kg						
Hexachlorobenzene	ug/Kg						
Pentachlorophenol	ug/Kg						
Di-n-butyl Phthalate	ug/Kg						
Benzyl Butyl Phthalate	ug/Kg						
3,3'-Dichlorobenzidine	ug/Kg						
bis(2-Ethylhexyl) Phthalate	ug/Kg						
Di-n-octylphthalate	ug/Kg						

	StationID	G643SB015	G643SB016	G643SB016
	SampleID	643SB01502DL (3-5ft)	643SB01601 (0-1ft)	643SB01601DL (0-1ft)
	DateCollected	12/17/1999	12/17/1999	12/17/1999
	DateAnalyzed	12/29/99	12/28/99	12/29/99
	SDGNumber	EN037	EN037	EN037
Parameter	**Units**			
Dibenzofuran	ug/Kg			
4-Nitrophenol	ug/Kg			
2,4-Dinitrotoluene	ug/Kg			
Dimethyl Phthalate	ug/Kg			
Diethyl Phthalate	ug/Kg			
4-Chlorophenyl Phenyl Ether	ug/Kg			
4-Nitroaniline	ug/Kg			
4,6-Dinitro-2-methylphenol	ug/Kg			
N-Nitrosodiphenylamine	ug/Kg			
N-Nitrosopiperidine	ug/Kg			
4-Bromophenyl Phenyl Ether	ug/Kg			
Hexachlorobenzene	ug/Kg			
Pentachlorophenol	ug/Kg			
Di-n-butyl Phthalate	ug/Kg			
Benzyl Butyl Phthalate	ug/Kg			
3,3'-Dichlorobenzidine	ug/Kg			
bis(2-Ethylhexyl) Phthalate	ug/Kg			
Di-n-octylphthalate	ug/Kg			

	StationID	G643SB016		G643SB016		G643SB017	
	SampleID	643SB01602 (3-5ft)		643SB01602DL (3-5ft)		643SB01701 (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/29/99		12/28/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Dibenzofuran	ug/Kg						
4-Nitrophenol	ug/Kg						
2,4-Dinitrotoluene	ug/Kg						
Dimethyl Phthalate	ug/Kg						
Diethyl Phthalate	ug/Kg						
4-Chlorophenyl Phenyl Ether	ug/Kg						
4-Nitroaniline	ug/Kg						
4,6-Dinitro-2-methylphenol	ug/Kg						
N-Nitrosodiphenylamine	ug/Kg						
N-Nitrosopiperidine	ug/Kg						
4-Bromophenyl Phenyl Ether	ug/Kg						
Hexachlorobenzene	ug/Kg						
Pentachlorophenol	ug/Kg						
Di-n-butyl Phthalate	ug/Kg						
Benzyl Butyl Phthalate	ug/Kg						
3,3'-Dichlorobenzidine	ug/Kg						
bis(2-Ethylhexyl) Phthalate	ug/Kg						
Di-n-octylphthalate	ug/Kg						

	StationID	G643SB017	G643SB018	G643SB018
	SampleID	643SB01702 (3-5ft)	643SB01801 (0-1ft)	643SB01801DL (0-1ft)
	DateCollected	12/17/1999	12/17/1999	12/17/1999
	DateAnalyzed	12/28/99	12/28/99	12/29/99
	SDGNumber	EN037	EN037	EN037
Parameter	**Units**			
Dibenzofuran	ug/Kg			
4-Nitrophenol	ug/Kg			
2,4-Dinitrotoluene	ug/Kg			
Dimethyl Phthalate	ug/Kg			
Diethyl Phthalate	ug/Kg			
4-Chlorophenyl Phenyl Ether	ug/Kg			
4-Nitroaniline	ug/Kg			
4,6-Dinitro-2-methylphenol	ug/Kg			
N-Nitrosodiphenylamine	ug/Kg			
N-Nitrosopiperidine	ug/Kg			
4-Bromophenyl Phenyl Ether	ug/Kg			
Hexachlorobenzene	ug/Kg			
Pentachlorophenol	ug/Kg			
Di-n-butyl Phthalate	ug/Kg			
Benzyl Butyl Phthalate	ug/Kg			
3,3'-Dichlorobenzidine	ug/Kg			
bis(2-Ethylhexyl) Phthalate	ug/Kg			
Di-n-octylphthalate	ug/Kg			

	StationID	G643SB018	G643SB019	G643SB019
	SampleID	643SB01802 (3-5ft)	643SB01901 (0-1ft)	643SB01901DL (0-1ft)
	DateCollected	12/17/1999	12/17/1999	12/17/1999
	DateAnalyzed	12/28/99	1/3/00	1/3/00
	SDGNumber	EN037	EN037	EN037
Parameter	**Units**			
Dibenzofuran	ug/Kg			
4-Nitrophenol	ug/Kg			
2,4-Dinitrotoluene	ug/Kg			
Dimethyl Phthalate	ug/Kg			
Diethyl Phthalate	ug/Kg			
4-Chlorophenyl Phenyl Ether	ug/Kg			
4-Nitroaniline	ug/Kg			
4,6-Dinitro-2-methylphenol	ug/Kg			
N-Nitrosodiphenylamine	ug/Kg			
N-Nitrosopiperidine	ug/Kg			
4-Bromophenyl Phenyl Ether	ug/Kg			
Hexachlorobenzene	ug/Kg			
Pentachlorophenol	ug/Kg			
Di-n-butyl Phthalate	ug/Kg			
Benzyl Butyl Phthalate	ug/Kg			
3,3'-Dichlorobenzidine	ug/Kg			
bis(2-Ethylhexyl) Phthalate	ug/Kg			
Di-n-octylphthalate	ug/Kg			

	StationID	G643SB019		G643SB020		G643SB020	
	SampleID	643SB01902 (3-5ft)		643SB02001 (0-1ft)		643SB02002 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/28/99		12/28/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
Dibenzofuran	ug/Kg						
4-Nitrophenol	ug/Kg						
2,4-Dinitrotoluene	ug/Kg						
Dimethyl Phthalate	ug/Kg						
Diethyl Phthalate	ug/Kg						
4-Chlorophenyl Phenyl Ether	ug/Kg						
4-Nitroaniline	ug/Kg						
4,6-Dinitro-2-methylphenol	ug/Kg						
N-Nitrosodiphenylamine	ug/Kg						
N-Nitrosopiperidine	ug/Kg						
4-Bromophenyl Phenyl Ether	ug/Kg						
Hexachlorobenzene	ug/Kg						
Pentachlorophenol	ug/Kg						
Di-n-butyl Phthalate	ug/Kg						
Benzyl Butyl Phthalate	ug/Kg						
3,3'-Dichlorobenzidine	ug/Kg						
bis(2-Ethylhexyl) Phthalate	ug/Kg						
Di-n-octylphthalate	ug/Kg						

	StationID	G643SB021		G643SB021		G643SB022
	SampleID	643SB02101 (0-1ft)		643SB02102 (3-5ft)		643SB02201 (0-1ft)
	DateCollected	01/25/2000		01/25/2000		12/17/1999
	DateAnalyzed	2/2/00		2/3/00		12/28/99
	SDGNumber	41852		41852		EN037
Parameter	**Units**					
Dibenzofuran	ug/Kg	81	J	410	U	
4-Nitrophenol	ug/Kg	1000	UJ	1000	U	
2,4-Dinitrotoluene	ug/Kg	410	UJ	410	U	
Dimethyl Phthalate	ug/Kg	410	UJ	410	U	
Diethyl Phthalate	ug/Kg	410	UJ	410	U	
4-Chlorophenyl Phenyl Ether	ug/Kg	410	UJ	410	U	
4-Nitroaniline	ug/Kg	1000	UJ	1000	U	
4,6-Dinitro-2-methylphenol	ug/Kg	1000	UJ	1000	U	
N-Nitrosodiphenylamine	ug/Kg	410	UJ	410	U	
N-Nitrosopiperidine	ug/Kg					
4-Bromophenyl Phenyl Ether	ug/Kg	410	UJ	410	U	
Hexachlorobenzene	ug/Kg	410	UJ	410	U	
Pentachlorophenol	ug/Kg	1000	UJ	1000	U	
Di-n-butyl Phthalate	ug/Kg	33	J	31	J	
Benzyl Butyl Phthalate	ug/Kg	410	U	410	U	
3,3'-Dichlorobenzidine	ug/Kg	410	U	410	U	
bis(2-Ethylhexyl) Phthalate	ug/Kg	410	U	410	U	
Di-n-octylphthalate	ug/Kg	410	U	410	U	

	StationID	G643SB022	G643SB023	G643SB023
	SampleID	643SB02202 (3-5ft)	643SB02301 (0-1ft)	643SB02302 (3-5ft)
	DateCollected	12/17/1999	12/17/1999	12/17/1999
	DateAnalyzed	12/28/99	12/29/99	12/29/99
	SDGNumber	EN037	EN037	EN037
Parameter	**Units**			
Dibenzofuran	ug/Kg			
4-Nitrophenol	ug/Kg			
2,4-Dinitrotoluene	ug/Kg			
Dimethyl Phthalate	ug/Kg			
Diethyl Phthalate	ug/Kg			
4-Chlorophenyl Phenyl Ether	ug/Kg			
4-Nitroaniline	ug/Kg			
4,6-Dinitro-2-methylphenol	ug/Kg			
N-Nitrosodiphenylamine	ug/Kg			
N-Nitrosopiperidine	ug/Kg			
4-Bromophenyl Phenyl Ether	ug/Kg			
Hexachlorobenzene	ug/Kg			
Pentachlorophenol	ug/Kg			
Di-n-butyl Phthalate	ug/Kg			
Benzyl Butyl Phthalate	ug/Kg			
3,3'-Dichlorobenzidine	ug/Kg			
bis(2-Ethylhexyl) Phthalate	ug/Kg			
Di-n-octylphthalate	ug/Kg			

	StationID	G643SB025		G643SB025		G643SB025	
	SampleID	643SB02501 (0-1ft)		643SB02501DL (0-1ft)		643SB02502 (3-5ft)	
	DateCollected	01/25/2000		01/25/2000		01/25/2000	
	DateAnalyzed	2/4/00		2/4/00		2/3/00	
	SDGNumber	41852		41852		41852	
Parameter	**Units**						
Dibenzofuran	ug/Kg	2100	J	2100	R	560	U
4-Nitrophenol	ug/Kg	9900	U	20000	R	1400	U
2,4-Dinitrotoluene	ug/Kg	4000	U	7900	R	560	U
Dimethyl Phthalate	ug/Kg	4000	U	7900	R	560	U
Diethyl Phthalate	ug/Kg	4000	U	7900	R	560	U
4-Chlorophenyl Phenyl Ether	ug/Kg	4000	U	7900	R	560	U
4-Nitroaniline	ug/Kg	9900	U	20000	R	1400	U
4,6-Dinitro-2-methylphenol	ug/Kg	9900	U	20000	R	1400	U
N-Nitrosodiphenylamine	ug/Kg	4000	U	7900	R	560	U
N-Nitrosopiperidine	ug/Kg						
4-Bromophenyl Phenyl Ether	ug/Kg	4000	U	7900	R	560	U
Hexachlorobenzene	ug/Kg	4000	U	7900	R	560	U
Pentachlorophenol	ug/Kg	9900	U	20000	R	1400	U
Di-n-butyl Phthalate	ug/Kg	4000	U	7900	R	99	J
Benzyl Butyl Phthalate	ug/Kg	4000	U	7900	R	560	U
3,3'-Dichlorobenzidine	ug/Kg	4000	U	7900	R	560	U
bis(2-Ethylhexyl) Phthalate	ug/Kg	4000	U	7900	R	560	U
Di-n-octylphthalate	ug/Kg	4000	U	7900	R	560	U

	StationID	G643SB026		G643SB026		G643SB027	
	SampleID	643SB02601 (0-1ft)		643SB02602 (3-5ft)		643SB02701 (0-1ft)	
	DateCollected	01/25/2000		01/25/2000		01/25/2000	
	DateAnalyzed	2/4/00		2/3/00		2/3/00	
	SDGNumber	41852		41852		41852	
Parameter	**Units**						
Dibenzofuran	ug/Kg	830	U	400	U	400	U
4-Nitrophenol	ug/Kg	2100	U	1000	U	1000	U
2,4-Dinitrotoluene	ug/Kg	830	U	400	U	400	U
Dimethyl Phthalate	ug/Kg	830	U	400	U	400	U
Diethyl Phthalate	ug/Kg	830	U	400	U	400	U
4-Chlorophenyl Phenyl Ether	ug/Kg	830	U	400	U	400	U
4-Nitroaniline	ug/Kg	2100	U	1000	U	1000	U
4,6-Dinitro-2-methylphenol	ug/Kg	2100	U	1000	U	1000	U
N-Nitrosodiphenylamine	ug/Kg	830	U	400	U	400	U
N-Nitrosopiperidine	ug/Kg						
4-Bromophenyl Phenyl Ether	ug/Kg	830	U	400	U	400	U
Hexachlorobenzene	ug/Kg	830	U	400	U	400	U
Pentachlorophenol	ug/Kg	2100	U	1000	U	1000	U
Di-n-butyl Phthalate	ug/Kg	830	U	400	U	24	J
Benzyl Butyl Phthalate	ug/Kg	830	U	400	U	400	U
3,3'-Dichlorobenzidine	ug/Kg	830	U	400	U	400	U
bis(2-Ethylhexyl) Phthalate	ug/Kg	830	U	400	U	400	U
Di-n-octylphthalate	ug/Kg	830	U	400	U	400	U

	StationID	G643SB027	
	SampleID	643SB02702 (3-5ft)	
	DateCollected	01/25/2000	
	DateAnalyzed	2/2/00	
	SDGNumber	41852	
Parameter	**Units**		
Dibenzofuran	ug/Kg	480	U
4-Nitrophenol	ug/Kg	1200	U
2,4-Dinitrotoluene	ug/Kg	480	U
Dimethyl Phthalate	ug/Kg	480	U
Diethyl Phthalate	ug/Kg	480	U
4-Chlorophenyl Phenyl Ether	ug/Kg	480	U
4-Nitroaniline	ug/Kg	1200	U
4,6-Dinitro-2-methylphenol	ug/Kg	1200	U
N-Nitrosodiphenylamine	ug/Kg	480	U
N-Nitrosopiperidine	ug/Kg		
4-Bromophenyl Phenyl Ether	ug/Kg	480	U
Hexachlorobenzene	ug/Kg	480	U
Pentachlorophenol	ug/Kg	1200	U
Di-n-butyl Phthalate	ug/Kg	28	J
Benzyl Butyl Phthalate	ug/Kg	480	U
3,3'-Dichlorobenzidine	ug/Kg	480	U
bis(2-Ethylhexyl) Phthalate	ug/Kg	480	U
Di-n-octylphthalate	ug/Kg	480	U

	StationID	G643SB008		G643SB008		G643SB009	
	SampleID	643SB00801 (0-1ft)		643SB00802 (3-5ft)		643CB00901 (0-1ft)	
	DateCollected	01/10/1997		01/10/1997		01/08/1997	
	DateAnalyzed	1/23/97		1/22/97		1/14/97	
	SDGNumber	28146		28146		28114	
Parameter	**Units**						
1,1,1,2-Tetrachloroethane	ug/Kg					6	U
1,2-Dibromo-3-chloropropane	ug/Kg					11	U
1,4-Dioxane	ug/Kg					570	R
Acetonitrile	ug/Kg					230	U
Acrolein	ug/Kg					57	UJ
Acrylonitrile	ug/Kg					57	U
Chloroprene	ug/Kg					6	U
Dichlorodifluoromethane	ug/Kg					6	UJ
Ethylene Dibromide (1,2-Dibromoethane)	ug/Kg					6	U
Isobutyl alcohol	ug/Kg					230	R
Methacrylonitrile	ug/Kg					110	U
Methyl iodide	ug/Kg					6	U
Propionitrile	ug/Kg					110	U
trans-1,4-Dichloro-2-butene	ug/Kg					6	U
Trichlorofluoromethane	ug/Kg					6	U
Chloromethane	ug/Kg					11	U
Naphthalene	ug/Kg	380	U	490	U		
Vinyl chloride	ug/Kg					11	U
Bromomethane	ug/Kg					11	U
Chloroethane	ug/Kg					11	U
1,1-Dichloroethene	ug/Kg					6	U
Acetone	ug/Kg					11	U
Carbon Disulfide	ug/Kg					6	U
Methylene Chloride	ug/Kg					6	U
1,1-Dichloroethane	ug/Kg					6	U
Vinyl acetate	ug/Kg					11	U
Methyl ethyl ketone (2-Butanone)	ug/Kg					11	U
1,2-Dichloroethene (total)	ug/Kg					6	U
Chloroform	ug/Kg					6	U
1,1,1-Trichloroethane	ug/Kg					6	U
Carbon Tetrachloride	ug/Kg					6	U
1,2-Dichloroethane	ug/Kg					6	U

	StationID	G643SB009		G643SB009		G643SB009	
	SampleID	643CB00901 (0-1ft)		643SB00901 (0-1ft)		643SB00902 (3-5ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/20/97		1/15/97		1/15/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
1,1,1,2-Tetrachloroethane	ug/Kg						
1,2-Dibromo-3-chloropropane	ug/Kg	380	R				
1,4-Dioxane	ug/Kg						
Acetonitrile	ug/Kg						
Acrolein	ug/Kg						
Acrylonitrile	ug/Kg						
Chloroprene	ug/Kg						
Dichlorodifluoromethane	ug/Kg						
Ethylene Dibromide (1,2-Dibromoethane)	ug/Kg						
Isobutyl alcohol	ug/Kg						
Methacrylonitrile	ug/Kg						
Methyl iodide	ug/Kg						
Propionitrile	ug/Kg						
trans-1,4-Dichloro-2-butene	ug/Kg						
Trichlorofluoromethane	ug/Kg						
Chloromethane	ug/Kg						
Naphthalene	ug/Kg	380	U	370	U	410	U
Vinyl chloride	ug/Kg						
Bromomethane	ug/Kg						
Chloroethane	ug/Kg						
1,1-Dichloroethene	ug/Kg						
Acetone	ug/Kg						
Carbon Disulfide	ug/Kg						
Methylene Chloride	ug/Kg						
1,1-Dichloroethane	ug/Kg						
Vinyl acetate	ug/Kg						
Methyl ethyl ketone (2-Butanone)	ug/Kg						
1,2-Dichloroethene (total)	ug/Kg						
Chloroform	ug/Kg						
1,1,1-Trichloroethane	ug/Kg						
Carbon Tetrachloride	ug/Kg						
1,2-Dichloroethane	ug/Kg						

	StationID	G643SB010		G643SB010		G643SB010	
	SampleID	643CB01001 (0-1ft)		643CB01001 (0-1ft)		643SB01001 (0-1ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/13/97		1/20/97		1/15/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
1,1,1,2-Tetrachloroethane	ug/Kg	6	U				
1,2-Dibromo-3-chloropropane	ug/Kg	11	U	370	R		
1,4-Dioxane	ug/Kg	560	R				
Acetonitrile	ug/Kg	220	UJ				
Acrolein	ug/Kg	56	R				
Acrylonitrile	ug/Kg	56	U				
Chloroprene	ug/Kg	6	U				
Dichlorodifluoromethane	ug/Kg	6	U				
Ethylene Dibromide (1,2-Dibromoethane)	ug/Kg	6	U				
Isobutyl alcohol	ug/Kg	220	R				
Methacrylonitrile	ug/Kg	110	U				
Methyl iodide	ug/Kg	6	UJ				
Propionitrile	ug/Kg	110	U				
trans-1,4-Dichloro-2-butene	ug/Kg	6	U				
Trichlorofluoromethane	ug/Kg	6	U				
Chloromethane	ug/Kg	11	U				
Naphthalene	ug/Kg			370	U	380	U
Vinyl chloride	ug/Kg	11	U				
Bromomethane	ug/Kg	11	U				
Chloroethane	ug/Kg	11	U				
1,1-Dichloroethene	ug/Kg	6	U				
Acetone	ug/Kg	11	U				
Carbon Disulfide	ug/Kg	6	U				
Methylene Chloride	ug/Kg	6	U				
1,1-Dichloroethane	ug/Kg	6	U				
Vinyl acetate	ug/Kg	11	U				
Methyl ethyl ketone (2-Butanone)	ug/Kg	11	U				
1,2-Dichloroethene (total)	ug/Kg	6	U				
Chloroform	ug/Kg	6	U				
1,1,1-Trichloroethane	ug/Kg	6	U				
Carbon Tetrachloride	ug/Kg	6	U				
1,2-Dichloroethane	ug/Kg	6	U				

	StationID	G643SB010		G643SB011		G643SB011	
	SampleID	643SB01002 (3-5ft)		643SB01101 (0-1ft)		643SB01102 (3-5ft)	
	DateCollected	01/08/1997		01/10/1997		01/10/1997	
	DateAnalyzed	1/15/97		1/17/97		1/22/97	
	SDGNumber	28114		28146		28146	
Parameter	**Units**						
1,1,1,2-Tetrachloroethane	ug/Kg						
1,2-Dibromo-3-chloropropane	ug/Kg						
1,4-Dioxane	ug/Kg						
Acetonitrile	ug/Kg						
Acrolein	ug/Kg						
Acrylonitrile	ug/Kg						
Chloroprene	ug/Kg						
Dichlorodifluoromethane	ug/Kg						
Ethylene Dibromide (1,2-Dibromoethane)	ug/Kg						
Isobutyl alcohol	ug/Kg						
Methacrylonitrile	ug/Kg						
Methyl iodide	ug/Kg						
Propionitrile	ug/Kg						
trans-1,4-Dichloro-2-butene	ug/Kg						
Trichlorofluoromethane	ug/Kg						
Chloromethane	ug/Kg						
Naphthalene	ug/Kg	390	U	370	U	440	U
Vinyl chloride	ug/Kg						
Bromomethane	ug/Kg						
Chloroethane	ug/Kg						
1,1-Dichloroethene	ug/Kg						
Acetone	ug/Kg						
Carbon Disulfide	ug/Kg						
Methylene Chloride	ug/Kg						
1,1-Dichloroethane	ug/Kg						
Vinyl acetate	ug/Kg						
Methyl ethyl ketone (2-Butanone)	ug/Kg						
1,2-Dichloroethene (total)	ug/Kg						
Chloroform	ug/Kg						
1,1,1-Trichloroethane	ug/Kg						
Carbon Tetrachloride	ug/Kg						
1,2-Dichloroethane	ug/Kg						

	StationID	G643SB012		G643SB012		G643SB014	
	SampleID	643SB01201 (0-1ft)		643SB01202 (3-5ft)		643SB01401a (0-1ft)	
	DateCollected	01/08/1997		01/08/1997		01/25/2000	
	DateAnalyzed	1/15/97		1/15/97		2/2/00	
	SDGNumber	28114		28114		41852	
Parameter	**Units**						
1,1,1,2-Tetrachloroethane	ug/Kg						
1,2-Dibromo-3-chloropropane	ug/Kg						
1,4-Dioxane	ug/Kg						
Acetonitrile	ug/Kg						
Acrolein	ug/Kg						
Acrylonitrile	ug/Kg						
Chloroprene	ug/Kg						
Dichlorodifluoromethane	ug/Kg						
Ethylene Dibromide (1,2-Dibromoethane)	ug/Kg						
Isobutyl alcohol	ug/Kg						
Methacrylonitrile	ug/Kg						
Methyl iodide	ug/Kg						
Propionitrile	ug/Kg						
trans-1,4-Dichloro-2-butene	ug/Kg						
Trichlorofluoromethane	ug/Kg						
Chloromethane	ug/Kg						
Naphthalene	ug/Kg	360	U	410	U	390	U
Vinyl chloride	ug/Kg						
Bromomethane	ug/Kg						
Chloroethane	ug/Kg						
1,1-Dichloroethene	ug/Kg						
Acetone	ug/Kg						
Carbon Disulfide	ug/Kg						
Methylene Chloride	ug/Kg						
1,1-Dichloroethane	ug/Kg						
Vinyl acetate	ug/Kg						
Methyl ethyl ketone (2-Butanone)	ug/Kg						
1,2-Dichloroethene (total)	ug/Kg						
Chloroform	ug/Kg						
1,1,1-Trichloroethane	ug/Kg						
Carbon Tetrachloride	ug/Kg						
1,2-Dichloroethane	ug/Kg						

	StationID	G643SB015		G643SB015		G643SB015	
	SampleID	643SB01501 (0-1ft)		643SB01501DL (0-1ft)		643SB01502 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/29/99		12/28/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
1,1,1,2-Tetrachloroethane	ug/Kg						
1,2-Dibromo-3-chloropropane	ug/Kg						
1,4-Dioxane	ug/Kg						
Acetonitrile	ug/Kg						
Acrolein	ug/Kg						
Acrylonitrile	ug/Kg						
Chloroprene	ug/Kg						
Dichlorodifluoromethane	ug/Kg						
Ethylene Dibromide (1,2-Dibromoethane)	ug/Kg						
Isobutyl alcohol	ug/Kg						
Methacrylonitrile	ug/Kg						
Methyl iodide	ug/Kg						
Propionitrile	ug/Kg						
trans-1,4-Dichloro-2-butene	ug/Kg						
Trichlorofluoromethane	ug/Kg						
Chloromethane	ug/Kg						
Naphthalene	ug/Kg	38	U	77	R	41	U
Vinyl chloride	ug/Kg						
Bromomethane	ug/Kg						
Chloroethane	ug/Kg						
1,1-Dichloroethene	ug/Kg						
Acetone	ug/Kg						
Carbon Disulfide	ug/Kg						
Methylene Chloride	ug/Kg						
1,1-Dichloroethane	ug/Kg						
Vinyl acetate	ug/Kg						
Methyl ethyl ketone (2-Butanone)	ug/Kg						
1,2-Dichloroethene (total)	ug/Kg						
Chloroform	ug/Kg						
1,1,1-Trichloroethane	ug/Kg						
Carbon Tetrachloride	ug/Kg						
1,2-Dichloroethane	ug/Kg						

	StationID	G643SB015		G643SB016		G643SB016	
	SampleID	643SB01502DL (3-5ft)		643SB01601 (0-1ft)		643SB01601DL (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/29/99		12/28/99		12/29/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
1,1,1,2-Tetrachloroethane	ug/Kg						
1,2-Dibromo-3-chloropropane	ug/Kg						
1,4-Dioxane	ug/Kg						
Acetonitrile	ug/Kg						
Acrolein	ug/Kg						
Acrylonitrile	ug/Kg						
Chloroprene	ug/Kg						
Dichlorodifluoromethane	ug/Kg						
Ethylene Dibromide (1,2-Dibromoethane)	ug/Kg						
Isobutyl alcohol	ug/Kg						
Methacrylonitrile	ug/Kg						
Methyl iodide	ug/Kg						
Propionitrile	ug/Kg						
trans-1,4-Dichloro-2-butene	ug/Kg						
Trichlorofluoromethane	ug/Kg						
Chloromethane	ug/Kg						
Naphthalene	ug/Kg	81	R	37	U	73	R
Vinyl chloride	ug/Kg						
Bromomethane	ug/Kg						
Chloroethane	ug/Kg						
1,1-Dichloroethene	ug/Kg						
Acetone	ug/Kg						
Carbon Disulfide	ug/Kg						
Methylene Chloride	ug/Kg						
1,1-Dichloroethane	ug/Kg						
Vinyl acetate	ug/Kg						
Methyl ethyl ketone (2-Butanone)	ug/Kg						
1,2-Dichloroethene (total)	ug/Kg						
Chloroform	ug/Kg						
1,1,1-Trichloroethane	ug/Kg						
Carbon Tetrachloride	ug/Kg						
1,2-Dichloroethane	ug/Kg						

	StationID	G643SB016		G643SB016		G643SB017	
	SampleID	643SB01602 (3-5ft)		643SB01602DL (3-5ft)		643SB01701 (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/29/99		12/28/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
1,1,1,2-Tetrachloroethane	ug/Kg						
1,2-Dibromo-3-chloropropane	ug/Kg						
1,4-Dioxane	ug/Kg						
Acetonitrile	ug/Kg						
Acrolein	ug/Kg						
Acrylonitrile	ug/Kg						
Chloroprene	ug/Kg						
Dichlorodifluoromethane	ug/Kg						
Ethylene Dibromide (1,2-Dibromoethane)	ug/Kg						
Isobutyl alcohol	ug/Kg						
Methacrylonitrile	ug/Kg						
Methyl iodide	ug/Kg						
Propionitrile	ug/Kg						
trans-1,4-Dichloro-2-butene	ug/Kg						
Trichlorofluoromethane	ug/Kg						
Chloromethane	ug/Kg						
Naphthalene	ug/Kg	39	U	78	R	75	U
Vinyl chloride	ug/Kg						
Bromomethane	ug/Kg						
Chloroethane	ug/Kg						
1,1-Dichloroethene	ug/Kg						
Acetone	ug/Kg						
Carbon Disulfide	ug/Kg						
Methylene Chloride	ug/Kg						
1,1-Dichloroethane	ug/Kg						
Vinyl acetate	ug/Kg						
Methyl ethyl ketone (2-Butanone)	ug/Kg						
1,2-Dichloroethene (total)	ug/Kg						
Chloroform	ug/Kg						
1,1,1-Trichloroethane	ug/Kg						
Carbon Tetrachloride	ug/Kg						
1,2-Dichloroethane	ug/Kg						

	StationID	G643SB017		G643SB018		G643SB018	
	SampleID	643SB01702 (3-5ft)		643SB01801 (0-1ft)		643SB01801DL (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/28/99		12/29/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
1,1,1,2-Tetrachloroethane	ug/Kg						
1,2-Dibromo-3-chloropropane	ug/Kg						
1,4-Dioxane	ug/Kg						
Acetonitrile	ug/Kg						
Acrolein	ug/Kg						
Acrylonitrile	ug/Kg						
Chloroprene	ug/Kg						
Dichlorodifluoromethane	ug/Kg						
Ethylene Dibromide (1,2-Dibromoethane)	ug/Kg						
Isobutyl alcohol	ug/Kg						
Methacrylonitrile	ug/Kg						
Methyl iodide	ug/Kg						
Propionitrile	ug/Kg						
trans-1,4-Dichloro-2-butene	ug/Kg						
Trichlorofluoromethane	ug/Kg						
Chloromethane	ug/Kg						
Naphthalene	ug/Kg	43	U	36	U	72	R
Vinyl chloride	ug/Kg						
Bromomethane	ug/Kg						
Chloroethane	ug/Kg						
1,1-Dichloroethene	ug/Kg						
Acetone	ug/Kg						
Carbon Disulfide	ug/Kg						
Methylene Chloride	ug/Kg						
1,1-Dichloroethane	ug/Kg						
Vinyl acetate	ug/Kg						
Methyl ethyl ketone (2-Butanone)	ug/Kg						
1,2-Dichloroethene (total)	ug/Kg						
Chloroform	ug/Kg						
1,1,1-Trichloroethane	ug/Kg						
Carbon Tetrachloride	ug/Kg						
1,2-Dichloroethane	ug/Kg						

	StationID	G643SB018		G643SB019		G643SB019	
	SampleID	643SB01802 (3-5ft)		643SB01901 (0-1ft)		643SB01901DL (0-1ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		1/3/00		1/3/00	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
1,1,1,2-Tetrachloroethane	ug/Kg						
1,2-Dibromo-3-chloropropane	ug/Kg						
1,4-Dioxane	ug/Kg						
Acetonitrile	ug/Kg						
Acrolein	ug/Kg						
Acrylonitrile	ug/Kg						
Chloroprene	ug/Kg						
Dichlorodifluoromethane	ug/Kg						
Ethylene Dibromide (1,2-Dibromoethane)	ug/Kg						
Isobutyl alcohol	ug/Kg						
Methacrylonitrile	ug/Kg						
Methyl iodide	ug/Kg						
Propionitrile	ug/Kg						
trans-1,4-Dichloro-2-butene	ug/Kg						
Trichlorofluoromethane	ug/Kg						
Chloromethane	ug/Kg						
Naphthalene	ug/Kg	38	U	560	U	1100	R
Vinyl chloride	ug/Kg						
Bromomethane	ug/Kg						
Chloroethane	ug/Kg						
1,1-Dichloroethene	ug/Kg						
Acetone	ug/Kg						
Carbon Disulfide	ug/Kg						
Methylene Chloride	ug/Kg						
1,1-Dichloroethane	ug/Kg						
Vinyl acetate	ug/Kg						
Methyl ethyl ketone (2-Butanone)	ug/Kg						
1,2-Dichloroethene (total)	ug/Kg						
Chloroform	ug/Kg						
1,1,1-Trichloroethane	ug/Kg						
Carbon Tetrachloride	ug/Kg						
1,2-Dichloroethane	ug/Kg						

	StationID	G643SB019		G643SB020		G643SB020	
	SampleID	643SB01902 (3-5ft)		643SB02001 (0-1ft)		643SB02002 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/28/99		12/28/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
1,1,1,2-Tetrachloroethane	ug/Kg						
1,2-Dibromo-3-chloropropane	ug/Kg						
1,4-Dioxane	ug/Kg						
Acetonitrile	ug/Kg						
Acrolein	ug/Kg						
Acrylonitrile	ug/Kg						
Chloroprene	ug/Kg						
Dichlorodifluoromethane	ug/Kg						
Ethylene Dibromide (1,2-Dibromoethane)	ug/Kg						
Isobutyl alcohol	ug/Kg						
Methacrylonitrile	ug/Kg						
Methyl iodide	ug/Kg						
Propionitrile	ug/Kg						
trans-1,4-Dichloro-2-butene	ug/Kg						
Trichlorofluoromethane	ug/Kg						
Chloromethane	ug/Kg						
Naphthalene	ug/Kg	46	U	39	U	44	U
Vinyl chloride	ug/Kg						
Bromomethane	ug/Kg						
Chloroethane	ug/Kg						
1,1-Dichloroethene	ug/Kg						
Acetone	ug/Kg						
Carbon Disulfide	ug/Kg						
Methylene Chloride	ug/Kg						
1,1-Dichloroethane	ug/Kg						
Vinyl acetate	ug/Kg						
Methyl ethyl ketone (2-Butanone)	ug/Kg						
1,2-Dichloroethene (total)	ug/Kg						
Chloroform	ug/Kg						
1,1,1-Trichloroethane	ug/Kg						
Carbon Tetrachloride	ug/Kg						
1,2-Dichloroethane	ug/Kg						

	StationID	G643SB021		G643SB021		G643SB022	
	SampleID	643SB02101 (0-1ft)		643SB02102 (3-5ft)		643SB02201 (0-1ft)	
	DateCollected	01/25/2000		01/25/2000		12/17/1999	
	DateAnalyzed	2/2/00		2/3/00		12/28/99	
	SDGNumber	41852		41852		EN037	
Parameter	**Units**						
1,1,1,2-Tetrachloroethane	ug/Kg						
1,2-Dibromo-3-chloropropane	ug/Kg						
1,4-Dioxane	ug/Kg						
Acetonitrile	ug/Kg						
Acrolein	ug/Kg						
Acrylonitrile	ug/Kg						
Chloroprene	ug/Kg						
Dichlorodifluoromethane	ug/Kg						
Ethylene Dibromide (1,2-Dibromoethane)	ug/Kg						
Isobutyl alcohol	ug/Kg						
Methacrylonitrile	ug/Kg						
Methyl iodide	ug/Kg						
Propionitrile	ug/Kg						
trans-1,4-Dichloro-2-butene	ug/Kg						
Trichlorofluoromethane	ug/Kg						
Chloromethane	ug/Kg						
Naphthalene	ug/Kg	410	UJ	410	U	40	U
Vinyl chloride	ug/Kg						
Bromomethane	ug/Kg						
Chloroethane	ug/Kg						
1,1-Dichloroethene	ug/Kg						
Acetone	ug/Kg						
Carbon Disulfide	ug/Kg						
Methylene Chloride	ug/Kg						
1,1-Dichloroethane	ug/Kg						
Vinyl acetate	ug/Kg						
Methyl ethyl ketone (2-Butanone)	ug/Kg						
1,2-Dichloroethene (total)	ug/Kg						
Chloroform	ug/Kg						
1,1,1-Trichloroethane	ug/Kg						
Carbon Tetrachloride	ug/Kg						
1,2-Dichloroethane	ug/Kg						

	StationID	G643SB022		G643SB023		G643SB023	
	SampleID	643SB02202 (3-5ft)		643SB02301 (0-1ft)		643SB02302 (3-5ft)	
	DateCollected	12/17/1999		12/17/1999		12/17/1999	
	DateAnalyzed	12/28/99		12/29/99		12/29/99	
	SDGNumber	EN037		EN037		EN037	
Parameter	**Units**						
1,1,1,2-Tetrachloroethane	ug/Kg						
1,2-Dibromo-3-chloropropane	ug/Kg						
1,4-Dioxane	ug/Kg						
Acetonitrile	ug/Kg						
Acrolein	ug/Kg						
Acrylonitrile	ug/Kg						
Chloroprene	ug/Kg						
Dichlorodifluoromethane	ug/Kg						
Ethylene Dibromide (1,2-Dibromoethane)	ug/Kg						
Isobutyl alcohol	ug/Kg						
Methacrylonitrile	ug/Kg						
Methyl iodide	ug/Kg						
Propionitrile	ug/Kg						
trans-1,4-Dichloro-2-butene	ug/Kg						
Trichlorofluoromethane	ug/Kg						
Chloromethane	ug/Kg						
Naphthalene	ug/Kg	44	U	39	U	41	U
Vinyl chloride	ug/Kg						
Bromomethane	ug/Kg						
Chloroethane	ug/Kg						
1,1-Dichloroethene	ug/Kg						
Acetone	ug/Kg						
Carbon Disulfide	ug/Kg						
Methylene Chloride	ug/Kg						
1,1-Dichloroethane	ug/Kg						
Vinyl acetate	ug/Kg						
Methyl ethyl ketone (2-Butanone)	ug/Kg						
1,2-Dichloroethene (total)	ug/Kg						
Chloroform	ug/Kg						
1,1,1-Trichloroethane	ug/Kg						
Carbon Tetrachloride	ug/Kg						
1,2-Dichloroethane	ug/Kg						

	StationID	G643SB025		G643SB025		G643SB025	
	SampleID	643SB02501 (0-1ft)		643SB02501DL (0-1ft)		643SB02502 (3-5ft)	
	DateCollected	01/25/2000		01/25/2000		01/25/2000	
	DateAnalyzed	2/4/00		2/4/00		2/3/00	
	SDGNumber	41852		41852		41852	
Parameter	**Units**						
1,1,1,2-Tetrachloroethane	ug/Kg						
1,2-Dibromo-3-chloropropane	ug/Kg						
1,4-Dioxane	ug/Kg						
Acetonitrile	ug/Kg						
Acrolein	ug/Kg						
Acrylonitrile	ug/Kg						
Chloroprene	ug/Kg						
Dichlorodifluoromethane	ug/Kg						
Ethylene Dibromide (1,2-Dibromoethane)	ug/Kg						
Isobutyl alcohol	ug/Kg						
Methacrylonitrile	ug/Kg						
Methyl iodide	ug/Kg						
Propionitrile	ug/Kg						
trans-1,4-Dichloro-2-butene	ug/Kg						
Trichlorofluoromethane	ug/Kg						
Chloromethane	ug/Kg						
Naphthalene	ug/Kg	2700	J	2500	R	560	U
Vinyl chloride	ug/Kg						
Bromomethane	ug/Kg						
Chloroethane	ug/Kg						
1,1-Dichloroethene	ug/Kg						
Acetone	ug/Kg						
Carbon Disulfide	ug/Kg						
Methylene Chloride	ug/Kg						
1,1-Dichloroethane	ug/Kg						
Vinyl acetate	ug/Kg						
Methyl ethyl ketone (2-Butanone)	ug/Kg						
1,2-Dichloroethene (total)	ug/Kg						
Chloroform	ug/Kg						
1,1,1-Trichloroethane	ug/Kg						
Carbon Tetrachloride	ug/Kg						
1,2-Dichloroethane	ug/Kg						

	StationID	G643SB026		G643SB026		G643SB027	
	SampleID	643SB02601 (0-1ft)		643SB02602 (3-5ft)		643SB02701 (0-1ft)	
	DateCollected	01/25/2000		01/25/2000		01/25/2000	
	DateAnalyzed	2/4/00		2/3/00		2/3/00	
	SDGNumber	41852		41852		41852	
Parameter	**Units**						
1,1,1,2-Tetrachloroethane	ug/Kg						
1,2-Dibromo-3-chloropropane	ug/Kg						
1,4-Dioxane	ug/Kg						
Acetonitrile	ug/Kg						
Acrolein	ug/Kg						
Acrylonitrile	ug/Kg						
Chloroprene	ug/Kg						
Dichlorodifluoromethane	ug/Kg						
Ethylene Dibromide (1,2-Dibromoethane)	ug/Kg						
Isobutyl alcohol	ug/Kg						
Methacrylonitrile	ug/Kg						
Methyl iodide	ug/Kg						
Propionitrile	ug/Kg						
trans-1,4-Dichloro-2-butene	ug/Kg						
Trichlorofluoromethane	ug/Kg						
Chloromethane	ug/Kg						
Naphthalene	ug/Kg	830	U	400	U	400	U
Vinyl chloride	ug/Kg						
Bromomethane	ug/Kg						
Chloroethane	ug/Kg						
1,1-Dichloroethene	ug/Kg						
Acetone	ug/Kg						
Carbon Disulfide	ug/Kg						
Methylene Chloride	ug/Kg						
1,1-Dichloroethane	ug/Kg						
Vinyl acetate	ug/Kg						
Methyl ethyl ketone (2-Butanone)	ug/Kg						
1,2-Dichloroethene (total)	ug/Kg						
Chloroform	ug/Kg						
1,1,1-Trichloroethane	ug/Kg						
Carbon Tetrachloride	ug/Kg						
1,2-Dichloroethane	ug/Kg						

	StationID	G643SB027	
	SampleID	643SB02702 (3-5ft)	
	DateCollected	01/25/2000	
	DateAnalyzed	2/2/00	
	SDGNumber	41852	
Parameter	**Units**		
1,1,1,2-Tetrachloroethane	ug/Kg		
1,2-Dibromo-3-chloropropane	ug/Kg		
1,4-Dioxane	ug/Kg		
Acetonitrile	ug/Kg		
Acrolein	ug/Kg		
Acrylonitrile	ug/Kg		
Chloroprene	ug/Kg		
Dichlorodifluoromethane	ug/Kg		
Ethylene Dibromide (1,2-Dibromoethane)	ug/Kg		
Isobutyl alcohol	ug/Kg		
Methacrylonitrile	ug/Kg		
Methyl iodide	ug/Kg		
Propionitrile	ug/Kg		
trans-1,4-Dichloro-2-butene	ug/Kg		
Trichlorofluoromethane	ug/Kg		
Chloromethane	ug/Kg		
Naphthalene	ug/Kg	480	U
Vinyl chloride	ug/Kg		
Bromomethane	ug/Kg		
Chloroethane	ug/Kg		
1,1-Dichloroethene	ug/Kg		
Acetone	ug/Kg		
Carbon Disulfide	ug/Kg		
Methylene Chloride	ug/Kg		
1,1-Dichloroethane	ug/Kg		
Vinyl acetate	ug/Kg		
Methyl ethyl ketone (2-Butanone)	ug/Kg		
1,2-Dichloroethene (total)	ug/Kg		
Chloroform	ug/Kg		
1,1,1-Trichloroethane	ug/Kg		
Carbon Tetrachloride	ug/Kg		
1,2-Dichloroethane	ug/Kg		

	StationID	G643SB008		G643SB008		G643SB009	
	SampleID	643SB00801 (0-1ft)		643SB00802 (3-5ft)		643CB00901 (0-1ft)	
	DateCollected	01/10/1997		01/10/1997		01/08/1997	
	DateAnalyzed	1/23/97		1/22/97		1/14/97	
	SDGNumber	28146		28146		28114	
Parameter	**Units**						
Benzene	ug/Kg					6	U
Trichloroethylene (TCE)	ug/Kg					6	U
1,2-Dichloropropane	ug/Kg					6	U
Bromodichloromethane	ug/Kg					6	U
2-Chloroethyl vinyl ether	ug/Kg					11	U
cis-1,3-Dichloropropene	ug/Kg					6	U
Methyl isobutyl ketone (4-Methyl-2-pentanone)	ug/Kg					11	U
Toluene	ug/Kg					6	U
trans-1,3-Dichloropropene	ug/Kg					6	U
1,1,2-Trichloroethane	ug/Kg					6	U
2-Hexanone	ug/Kg					11	U
Tetrachloroethylene (PCE)	ug/Kg					6	U
Dibromochloromethane	ug/Kg					6	U
Chlorobenzene	ug/Kg					6	U
Ethylbenzene	ug/Kg					6	U
Xylenes, Total	ug/Kg					6	U
Styrene	ug/Kg					6	U
Bromoform	ug/Kg					6	U
1,1,2,2-Tetrachloroethane	ug/Kg					6	U
Methylene bromide	ug/Kg					11	U
3-Chloropropene	ug/Kg					6	U

	StationID	G643SB009	G643SB009	G643SB009
	SampleID	643CB00901 (0-1ft)	643SB00901 (0-1ft)	643SB00902 (3-5ft)
	DateCollected	01/08/1997	01/08/1997	01/08/1997
	DateAnalyzed	1/20/97	1/15/97	1/15/97
	SDGNumber	28114	28114	28114
Parameter	**Units**			
Benzene	ug/Kg			
Trichloroethylene (TCE)	ug/Kg			
1,2-Dichloropropane	ug/Kg			
Bromodichloromethane	ug/Kg			
2-Chloroethyl vinyl ether	ug/Kg			
cis-1,3-Dichloropropene	ug/Kg			
Methyl isobutyl ketone (4-Methyl-2-pentanone)	ug/Kg			
Toluene	ug/Kg			
trans-1,3-Dichloropropene	ug/Kg			
1,1,2-Trichloroethane	ug/Kg			
2-Hexanone	ug/Kg			
Tetrachloroethylene (PCE)	ug/Kg			
Dibromochloromethane	ug/Kg			
Chlorobenzene	ug/Kg			
Ethylbenzene	ug/Kg			
Xylenes, Total	ug/Kg			
Styrene	ug/Kg			
Bromoform	ug/Kg			
1,1,2,2-Tetrachloroethane	ug/Kg			
Methylene bromide	ug/Kg			
3-Chloropropene	ug/Kg			

	StationID	G643SB010		G643SB010		G643SB010	
	SampleID	643CB01001 (0-1ft)		643CB01001 (0-1ft)		643SB01001 (0-1ft)	
	DateCollected	01/08/1997		01/08/1997		01/08/1997	
	DateAnalyzed	1/13/97		1/20/97		1/15/97	
	SDGNumber	28114		28114		28114	
Parameter	**Units**						
Benzene	ug/Kg	6	U				
Trichloroethylene (TCE)	ug/Kg	6	U				
1,2-Dichloropropane	ug/Kg	6	U				
Bromodichloromethane	ug/Kg	6	U				
2-Chloroethyl vinyl ether	ug/Kg	11	U				
cis-1,3-Dichloropropene	ug/Kg	6	U				
Methyl isobutyl ketone (4-Methyl-2-pentanone)	ug/Kg	11	U				
Toluene	ug/Kg	6	U				
trans-1,3-Dichloropropene	ug/Kg	6	U				
1,1,2-Trichloroethane	ug/Kg	6	U				
2-Hexanone	ug/Kg	11	U				
Tetrachloroethylene (PCE)	ug/Kg	6	U				
Dibromochloromethane	ug/Kg	6	U				
Chlorobenzene	ug/Kg	6	U				
Ethylbenzene	ug/Kg	6	U				
Xylenes, Total	ug/Kg	6	U				
Styrene	ug/Kg	6	U				
Bromoform	ug/Kg	6	U				
1,1,2,2-Tetrachloroethane	ug/Kg	6	U				
Methylene bromide	ug/Kg	11	U				
3-Chloropropene	ug/Kg	6	U				

	StationID	G643SB010	G643SB011	G643SB011
	SampleID	643SB01002 (3-5ft)	643SB01101 (0-1ft)	643SB01102 (3-5ft)
	DateCollected	01/08/1997	01/10/1997	01/10/1997
	DateAnalyzed	1/15/97	1/17/97	1/22/97
	SDGNumber	28114	28146	28146
Parameter	**Units**			
Benzene	ug/Kg			
Trichloroethylene (TCE)	ug/Kg			
1,2-Dichloropropane	ug/Kg			
Bromodichloromethane	ug/Kg			
2-Chloroethyl vinyl ether	ug/Kg			
cis-1,3-Dichloropropene	ug/Kg			
Methyl isobutyl ketone (4-Methyl-2-pentanone)	ug/Kg			
Toluene	ug/Kg			
trans-1,3-Dichloropropene	ug/Kg			
1,1,2-Trichloroethane	ug/Kg			
2-Hexanone	ug/Kg			
Tetrachloroethylene (PCE)	ug/Kg			
Dibromochloromethane	ug/Kg			
Chlorobenzene	ug/Kg			
Ethylbenzene	ug/Kg			
Xylenes, Total	ug/Kg			
Styrene	ug/Kg			
Bromoform	ug/Kg			
1,1,2,2-Tetrachloroethane	ug/Kg			
Methylene bromide	ug/Kg			
3-Chloropropene	ug/Kg			

	StationID	G643SB012	G643SB012	G643SB014
	SampleID	643SB01201 (0-1ft)	643SB01202 (3-5ft)	643SB01401a (0-1ft)
	DateCollected	01/08/1997	01/08/1997	01/25/2000
	DateAnalyzed	1/15/97	1/15/97	2/2/00
	SDGNumber	28114	28114	41852
Parameter	**Units**			
Benzene	ug/Kg			
Trichloroethylene (TCE)	ug/Kg			
1,2-Dichloropropane	ug/Kg			
Bromodichloromethane	ug/Kg			
2-Chloroethyl vinyl ether	ug/Kg			
cis-1,3-Dichloropropene	ug/Kg			
Methyl isobutyl ketone (4-Methyl-2-pentanone)	ug/Kg			
Toluene	ug/Kg			
trans-1,3-Dichloropropene	ug/Kg			
1,1,2-Trichloroethane	ug/Kg			
2-Hexanone	ug/Kg			
Tetrachloroethylene (PCE)	ug/Kg			
Dibromochloromethane	ug/Kg			
Chlorobenzene	ug/Kg			
Ethylbenzene	ug/Kg			
Xylenes, Total	ug/Kg			
Styrene	ug/Kg			
Bromoform	ug/Kg			
1,1,2,2-Tetrachloroethane	ug/Kg			
Methylene bromide	ug/Kg			
3-Chloropropene	ug/Kg			

	StationID	G643SB015	G643SB015	G643SB015
	SampleID	643SB01501 (0-1ft)	643SB01501DL (0-1ft)	643SB01502 (3-5ft)
	DateCollected	12/17/1999	12/17/1999	12/17/1999
	DateAnalyzed	12/28/99	12/29/99	12/28/99
	SDGNumber	EN037	EN037	EN037
Parameter	**Units**			
Benzene	ug/Kg			
Trichloroethylene (TCE)	ug/Kg			
1,2-Dichloropropane	ug/Kg			
Bromodichloromethane	ug/Kg			
2-Chloroethyl vinyl ether	ug/Kg			
cis-1,3-Dichloropropene	ug/Kg			
Methyl isobutyl ketone (4-Methyl-2-pentanone)	ug/Kg			
Toluene	ug/Kg			
trans-1,3-Dichloropropene	ug/Kg			
1,1,2-Trichloroethane	ug/Kg			
2-Hexanone	ug/Kg			
Tetrachloroethylene (PCE)	ug/Kg			
Dibromochloromethane	ug/Kg			
Chlorobenzene	ug/Kg			
Ethylbenzene	ug/Kg			
Xylenes, Total	ug/Kg			
Styrene	ug/Kg			
Bromoform	ug/Kg			
1,1,2,2-Tetrachloroethane	ug/Kg			
Methylene bromide	ug/Kg			
3-Chloropropene	ug/Kg			

	StationID	G643SB015	G643SB016	G643SB016
	SampleID	643SB01502DL (3-5ft)	643SB01601 (0-1ft)	643SB01601DL (0-1ft)
	DateCollected	12/17/1999	12/17/1999	12/17/1999
	DateAnalyzed	12/29/99	12/28/99	12/29/99
	SDGNumber	EN037	EN037	EN037
Parameter	**Units**			
Benzene	ug/Kg			
Trichloroethylene (TCE)	ug/Kg			
1,2-Dichloropropane	ug/Kg			
Bromodichloromethane	ug/Kg			
2-Chloroethyl vinyl ether	ug/Kg			
cis-1,3-Dichloropropene	ug/Kg			
Methyl isobutyl ketone (4-Methyl-2-pentanone)	ug/Kg			
Toluene	ug/Kg			
trans-1,3-Dichloropropene	ug/Kg			
1,1,2-Trichloroethane	ug/Kg			
2-Hexanone	ug/Kg			
Tetrachloroethylene (PCE)	ug/Kg			
Dibromochloromethane	ug/Kg			
Chlorobenzene	ug/Kg			
Ethylbenzene	ug/Kg			
Xylenes, Total	ug/Kg			
Styrene	ug/Kg			
Bromoform	ug/Kg			
1,1,2,2-Tetrachloroethane	ug/Kg			
Methylene bromide	ug/Kg			
3-Chloropropene	ug/Kg			

	StationID	G643SB016	G643SB016	G643SB017
	SampleID	643SB01602 (3-5ft)	643SB01602DL (3-5ft)	643SB01701 (0-1ft)
	DateCollected	12/17/1999	12/17/1999	12/17/1999
	DateAnalyzed	12/28/99	12/29/99	12/28/99
	SDGNumber	EN037	EN037	EN037
Parameter	**Units**			
Benzene	ug/Kg			
Trichloroethylene (TCE)	ug/Kg			
1,2-Dichloropropane	ug/Kg			
Bromodichloromethane	ug/Kg			
2-Chloroethyl vinyl ether	ug/Kg			
cis-1,3-Dichloropropene	ug/Kg			
Methyl isobutyl ketone (4-Methyl-2-pentanone)	ug/Kg			
Toluene	ug/Kg			
trans-1,3-Dichloropropene	ug/Kg			
1,1,2-Trichloroethane	ug/Kg			
2-Hexanone	ug/Kg			
Tetrachloroethylene (PCE)	ug/Kg			
Dibromochloromethane	ug/Kg			
Chlorobenzene	ug/Kg			
Ethylbenzene	ug/Kg			
Xylenes, Total	ug/Kg			
Styrene	ug/Kg			
Bromoform	ug/Kg			
1,1,2,2-Tetrachloroethane	ug/Kg			
Methylene bromide	ug/Kg			
3-Chloropropene	ug/Kg			

	StationID	G643SB017	G643SB018	G643SB018
	SampleID	643SB01702 (3-5ft)	643SB01801 (0-1ft)	643SB01801DL (0-1ft)
	DateCollected	12/17/1999	12/17/1999	12/17/1999
	DateAnalyzed	12/28/99	12/28/99	12/29/99
	SDGNumber	EN037	EN037	EN037
Parameter	**Units**			
Benzene	ug/Kg			
Trichloroethylene (TCE)	ug/Kg			
1,2-Dichloropropane	ug/Kg			
Bromodichloromethane	ug/Kg			
2-Chloroethyl vinyl ether	ug/Kg			
cis-1,3-Dichloropropene	ug/Kg			
Methyl isobutyl ketone (4-Methyl-2-pentanone)	ug/Kg			
Toluene	ug/Kg			
trans-1,3-Dichloropropene	ug/Kg			
1,1,2-Trichloroethane	ug/Kg			
2-Hexanone	ug/Kg			
Tetrachloroethylene (PCE)	ug/Kg			
Dibromochloromethane	ug/Kg			
Chlorobenzene	ug/Kg			
Ethylbenzene	ug/Kg			
Xylenes, Total	ug/Kg			
Styrene	ug/Kg			
Bromoform	ug/Kg			
1,1,2,2-Tetrachloroethane	ug/Kg			
Methylene bromide	ug/Kg			
3-Chloropropene	ug/Kg			

	StationID	G643SB018	G643SB019	G643SB019
	SampleID	643SB01802 (3-5ft)	643SB01901 (0-1ft)	643SB01901DL (0-1ft)
	DateCollected	12/17/1999	12/17/1999	12/17/1999
	DateAnalyzed	12/28/99	1/3/00	1/3/00
	SDGNumber	EN037	EN037	EN037
Parameter	**Units**			
Benzene	ug/Kg			
Trichloroethylene (TCE)	ug/Kg			
1,2-Dichloropropane	ug/Kg			
Bromodichloromethane	ug/Kg			
2-Chloroethyl vinyl ether	ug/Kg			
cis-1,3-Dichloropropene	ug/Kg			
Methyl isobutyl ketone (4-Methyl-2-pentanone)	ug/Kg			
Toluene	ug/Kg			
trans-1,3-Dichloropropene	ug/Kg			
1,1,2-Trichloroethane	ug/Kg			
2-Hexanone	ug/Kg			
Tetrachloroethylene (PCE)	ug/Kg			
Dibromochloromethane	ug/Kg			
Chlorobenzene	ug/Kg			
Ethylbenzene	ug/Kg			
Xylenes, Total	ug/Kg			
Styrene	ug/Kg			
Bromoform	ug/Kg			
1,1,2,2-Tetrachloroethane	ug/Kg			
Methylene bromide	ug/Kg			
3-Chloropropene	ug/Kg			

	StationID	G643SB019	G643SB020	G643SB020
	SampleID	643SB01902 (3-5ft)	643SB02001 (0-1ft)	643SB02002 (3-5ft)
	DateCollected	12/17/1999	12/17/1999	12/17/1999
	DateAnalyzed	12/28/99	12/28/99	12/28/99
	SDGNumber	EN037	EN037	EN037
Parameter	**Units**			
Benzene	ug/Kg			
Trichloroethylene (TCE)	ug/Kg			
1,2-Dichloropropane	ug/Kg			
Bromodichloromethane	ug/Kg			
2-Chloroethyl vinyl ether	ug/Kg			
cis-1,3-Dichloropropene	ug/Kg			
Methyl isobutyl ketone (4-Methyl-2-pentanone)	ug/Kg			
Toluene	ug/Kg			
trans-1,3-Dichloropropene	ug/Kg			
1,1,2-Trichloroethane	ug/Kg			
2-Hexanone	ug/Kg			
Tetrachloroethylene (PCE)	ug/Kg			
Dibromochloromethane	ug/Kg			
Chlorobenzene	ug/Kg			
Ethylbenzene	ug/Kg			
Xylenes, Total	ug/Kg			
Styrene	ug/Kg			
Bromoform	ug/Kg			
1,1,2,2-Tetrachloroethane	ug/Kg			
Methylene bromide	ug/Kg			
3-Chloropropene	ug/Kg			

	StationID	G643SB021	G643SB021	G643SB022
	SampleID	643SB02101 (0-1ft)	643SB02102 (3-5ft)	643SB02201 (0-1ft)
	DateCollected	01/25/2000	01/25/2000	12/17/1999
	DateAnalyzed	2/2/00	2/3/00	12/28/99
	SDGNumber	41852	41852	EN037
Parameter	**Units**			
Benzene	ug/Kg			
Trichloroethylene (TCE)	ug/Kg			
1,2-Dichloropropane	ug/Kg			
Bromodichloromethane	ug/Kg			
2-Chloroethyl vinyl ether	ug/Kg			
cis-1,3-Dichloropropene	ug/Kg			
Methyl isobutyl ketone (4-Methyl-2-pentanone)	ug/Kg			
Toluene	ug/Kg			
trans-1,3-Dichloropropene	ug/Kg			
1,1,2-Trichloroethane	ug/Kg			
2-Hexanone	ug/Kg			
Tetrachloroethylene (PCE)	ug/Kg			
Dibromochloromethane	ug/Kg			
Chlorobenzene	ug/Kg			
Ethylbenzene	ug/Kg			
Xylenes, Total	ug/Kg			
Styrene	ug/Kg			
Bromoform	ug/Kg			
1,1,2,2-Tetrachloroethane	ug/Kg			
Methylene bromide	ug/Kg			
3-Chloropropene	ug/Kg			

	StationID	G643SB022	G643SB023	G643SB023
	SampleID	643SB02202 (3-5ft)	643SB02301 (0-1ft)	643SB02302 (3-5ft)
	DateCollected	12/17/1999	12/17/1999	12/17/1999
	DateAnalyzed	12/28/99	12/29/99	12/29/99
	SDGNumber	EN037	EN037	EN037
Parameter	**Units**			
Benzene	ug/Kg			
Trichloroethylene (TCE)	ug/Kg			
1,2-Dichloropropane	ug/Kg			
Bromodichloromethane	ug/Kg			
2-Chloroethyl vinyl ether	ug/Kg			
cis-1,3-Dichloropropene	ug/Kg			
Methyl isobutyl ketone (4-Methyl-2-pentanone)	ug/Kg			
Toluene	ug/Kg			
trans-1,3-Dichloropropene	ug/Kg			
1,1,2-Trichloroethane	ug/Kg			
2-Hexanone	ug/Kg			
Tetrachloroethylene (PCE)	ug/Kg			
Dibromochloromethane	ug/Kg			
Chlorobenzene	ug/Kg			
Ethylbenzene	ug/Kg			
Xylenes, Total	ug/Kg			
Styrene	ug/Kg			
Bromoform	ug/Kg			
1,1,2,2-Tetrachloroethane	ug/Kg			
Methylene bromide	ug/Kg			
3-Chloropropene	ug/Kg			

	StationID	G643SB025	G643SB025	G643SB025
	SampleID	643SB02501 (0-1ft)	643SB02501DL (0-1ft)	643SB02502 (3-5ft)
	DateCollected	01/25/2000	01/25/2000	01/25/2000
	DateAnalyzed	2/4/00	2/4/00	2/3/00
	SDGNumber	41852	41852	41852
Parameter	**Units**			
Benzene	ug/Kg			
Trichloroethylene (TCE)	ug/Kg			
1,2-Dichloropropane	ug/Kg			
Bromodichloromethane	ug/Kg			
2-Chloroethyl vinyl ether	ug/Kg			
cis-1,3-Dichloropropene	ug/Kg			
Methyl isobutyl ketone (4-Methyl-2-pentanone)	ug/Kg			
Toluene	ug/Kg			
trans-1,3-Dichloropropene	ug/Kg			
1,1,2-Trichloroethane	ug/Kg			
2-Hexanone	ug/Kg			
Tetrachloroethylene (PCE)	ug/Kg			
Dibromochloromethane	ug/Kg			
Chlorobenzene	ug/Kg			
Ethylbenzene	ug/Kg			
Xylenes, Total	ug/Kg			
Styrene	ug/Kg			
Bromoform	ug/Kg			
1,1,2,2-Tetrachloroethane	ug/Kg			
Methylene bromide	ug/Kg			
3-Chloropropene	ug/Kg			

	StationID	G643SB026	G643SB026	G643SB027
	SampleID	643SB02601 (0-1ft)	643SB02602 (3-5ft)	643SB02701 (0-1ft)
	DateCollected	01/25/2000	01/25/2000	01/25/2000
	DateAnalyzed	2/4/00	2/3/00	2/3/00
	SDGNumber	41852	41852	41852
Parameter	**Units**			
Benzene	ug/Kg			
Trichloroethylene (TCE)	ug/Kg			
1,2-Dichloropropane	ug/Kg			
Bromodichloromethane	ug/Kg			
2-Chloroethyl vinyl ether	ug/Kg			
cis-1,3-Dichloropropene	ug/Kg			
Methyl isobutyl ketone (4-Methyl-2-pentanone)	ug/Kg			
Toluene	ug/Kg			
trans-1,3-Dichloropropene	ug/Kg			
1,1,2-Trichloroethane	ug/Kg			
2-Hexanone	ug/Kg			
Tetrachloroethylene (PCE)	ug/Kg			
Dibromochloromethane	ug/Kg			
Chlorobenzene	ug/Kg			
Ethylbenzene	ug/Kg			
Xylenes, Total	ug/Kg			
Styrene	ug/Kg			
Bromoform	ug/Kg			
1,1,2,2-Tetrachloroethane	ug/Kg			
Methylene bromide	ug/Kg			
3-Chloropropene	ug/Kg			

	StationID	G643SB027	
	SampleID	643SB02702 (3-5ft)	
	DateCollected	01/25/2000	
	DateAnalyzed	2/2/00	
	SDGNumber	41852	
Parameter	**Units**		
Benzene	ug/Kg		
Trichloroethylene (TCE)	ug/Kg		
1,2-Dichloropropane	ug/Kg		
Bromodichloromethane	ug/Kg		
2-Chloroethyl vinyl ether	ug/Kg		
cis-1,3-Dichloropropene	ug/Kg		
Methyl isobutyl ketone (4-Methyl-2-pentanone)	ug/Kg		
Toluene	ug/Kg		
trans-1,3-Dichloropropene	ug/Kg		
1,1,2-Trichloroethane	ug/Kg		
2-Hexanone	ug/Kg		
Tetrachloroethylene (PCE)	ug/Kg		
Dibromochloromethane	ug/Kg		
Chlorobenzene	ug/Kg		
Ethylbenzene	ug/Kg		
Xylenes, Total	ug/Kg		
Styrene	ug/Kg		
Bromoform	ug/Kg		
1,1,2,2-Tetrachloroethane	ug/Kg		
Methylene bromide	ug/Kg		
3-Chloropropene	ug/Kg		

	StationID	G643SB009		G643SB010	
	SampleID	643CB00901 (0-1ft)		643CB01001 (0-1ft)	
	DateCollected	01/08/1997		01/08/1997	
	DateAnalyzed	1/15/97		1/15/97	
	SDGNumber	28114		28114	
Parameter	**Units**				
Cyanide	mg/Kg	0.11	U	0.12	J

	StationID	G643SB009		G643SB010	
	SampleID	643CB00901 (0-1ft)		643CB01001 (0-1ft)	
	DateCollected	01/08/1997		01/08/1997	
	DateAnalyzed	1/20/97		1/20/97	
	SDGNumber	28114		28114	
Parameter	**Units**				
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	NG/KG	6.44	=	152	=
1,2,3,4,6,7,8-Heptachlorodibenzofuran	NG/KG	3.17	U	14	U
1,2,3,4,7,8,9-Heptachlorodibenzofuran	NG/KG	0.197	U	1.07	=
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	NG/KG	0.389	U	1.06	U
1,2,3,4,7,8-Hexachlorodibenzofuran	NG/KG	1.1	J	16.6	J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	NG/KG	0.25	U	0.681	U
1,2,3,6,7,8-Hexachlorodibenzofuran	NG/KG	0.253	U	0.955	U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	NG/KG	0.273	U	0.742	U
1,2,3,7,8,9-Hexachlorodibenzofuran	NG/KG	0.366	U	1.38	U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	NG/KG	1.12	U	1.14	U
1,2,3,7,8-Pentachlorodibenzofuran	NG/KG	0.864	=	19.4	=
2,3,4,6,7,8-Hexachlorodibenzofuran	NG/KG	0.331	U	1.25	U
2,3,4,7,8-Pentachlorodibenzofuran	NG/KG	0.305	U	0.858	U
2,3,7,8-Tetrachlorodibenzo-p-dioxin	NG/KG	0.177	U	0.339	U
2,3,7,8-Tetrachlorodibenzofuran	NG/KG	0.171	U	0.586	U
Octachlorodibenzo-p-dioxin	NG/KG	69.5	=	1300	=
Octachlorodibenzofuran	NG/KG	1.68	=	24.2	=
Total Hepta-Dioxins	NG/KG	23.9	=	387	=
Total Hepta-Furans	NG/KG	0.165	U	15	=
Total Hexa-Dioxins	NG/KG	0.25	U	0.681	U
Total Hexa-Furans	NG/KG	3.8	=	44.7	=
Total Penta-Dioxins	NG/KG	1.12	U	1.14	U
Total Penta-Furans	NG/KG	4.16	=	76.7	=
Total Tetra-Dioxins	NG/KG	3.09	=	4.67	=
Total Tetra-Furans	NG/KG	0.804	=	22.4	=

	StationID	G643SB009		G643SB009	
	SampleID	643CB00901 (0-1ft)		643CB00901 (0-1ft)	
	DateCollected	01/08/1997		01/08/1997	
	DateAnalyzed	1/14/97		1/20/97	
	SDGNumber	28114		28114	
Parameter	**Units**				
2,4,5-T	ug/Kg	18	UJ		
2,4,5-TP (Silvex)	ug/Kg	16	UJ		
2,4-D	ug/Kg	70	UJ		
Dinoseb	ug/Kg	42	UJ	380	U

	StationID	G643SB010		G643SB010	
	SampleID	643CB01001 (0-1ft)		643CB01001 (0-1ft)	
	DateCollected	01/08/1997		01/08/1997	
	DateAnalyzed	1/14/97		1/20/97	
	SDGNumber	28114		28114	
Parameter	**Units**				
2,4,5-T	ug/Kg	18	UJ		
2,4,5-TP (Silvex)	ug/Kg	16	UJ		
2,4-D	ug/Kg	70	UJ		
Dinoseb	ug/Kg	42	UJ	370	U

	StationID	G643SB009		G643SB009	
	SampleID	643CB00901 (0-1ft)		643CB00901 (0-1ft)	
	DateCollected	01/08/1997		01/08/1997	
	DateAnalyzed	1/15/97		1/20/97	
	SDGNumber	28114		28114	
Parameter	**Units**				
Diallate	ug/Kg			380	U
Dimethoate	ug/Kg			380	U
Disulfoton	ug/Kg	137	U	380	U
Famphur	ug/Kg			380	U
Kepone	ug/Kg			1800	UJ
Methyl parathion	ug/Kg	19	U	750	U
O,O,O-Triethylphosphorothioate	ug/Kg			380	U
Parathion	ug/Kg			750	U
Phorate	ug/Kg	77	U	380	U
Sulfotep	ug/Kg			750	U
Thionazin	ug/Kg			750	U

	StationID	G643SB010		G643SB010	
	SampleID	643CB01001 (0-1ft)		643CB01001 (0-1ft)	
	DateCollected	01/08/1997		01/08/1997	
	DateAnalyzed	1/15/97		1/20/97	
	SDGNumber	28114		28114	
Parameter	**Units**				
Diallate	ug/Kg			370	U
Dimethoate	ug/Kg			370	U
Disulfoton	ug/Kg	135	U	370	U
Famphur	ug/Kg			370	U
Kepone	ug/Kg			1800	UJ
Methyl parathion	ug/Kg	19	U	740	U
O,O,O-Triethylphosphorothioate	ug/Kg			370	U
Parathion	ug/Kg			740	U
Phorate	ug/Kg	76	U	370	U
Sulfotep	ug/Kg			740	U
Thionazin	ug/Kg			740	U

Analytical Data Summary

	StationID	G643SB029		G643SB029	
	SampleID	643CB02901 (0-1ft)		643SB02901 (0-1ft)	
	DateCollected	08/21/2001 0:00		08/21/2001 0:00	
	DateAnalyzed	09/03/2001		09/03/2001	
	SDGNumber	47940		47940	
Parameter	**Units**				
Benzo(a)Anthracene	mg/kg	0.13	J	0.117	J
Chrysene	mg/kg	0.16	J	0.151	J
Benzo(b)Fluoranthene	mg/kg	0.29	J	0.275	J
Benzo(k)Fluoranthene	mg/kg	0.154	J	0.128	J
Benzo(a)Pyrene	mg/kg	0.136	J	0.128	J
Indeno(1,2,3-c,d)pyrene	mg/kg	0.195	J	0.193	J
Dibenz(a,h)anthracene	mg/kg	0.357	UJ	0.357	UJ

Analytical Data Summary

	StationID	G643SB028		G643SB028	
	SampleID	643CB02801 (0-1ft)		643SB02801 (0-1ft)	
	DateCollected	08/21/2001 0:00		08/21/2001 0:00	
	DateAnalyzed	09/07/2001		09/07/2001	
	SDGNumber	47940		47940	
Parameter	**Units**				
p,p'-DDD	mg/kg	0.0158	J	0.136	=
p,p'-DDE	mg/kg	0.0565	=	0.0949	=
p,p'-DDT	mg/kg	0.0289	U	0.0291	U

Data Validation Summary - Charleston Naval Complex - Zone G – AOC 643

TO: Jim Edens/CH2M HILL/GNV

FROM: Herb Kelly/CH2M HILL/GNA

DATE: October 23, 2001

The purpose of this memorandum is to present the results of the data validation process for the samples collected in Zone G at site 643. The samples were collected on August 21, 2001.

The specific samples and analytical fractions reviewed are summarized below in Table 1.

The Quality Control areas that were review and the resulting findings are documented within each subsection that follows. This data was validated for compliance with the analytical method requirements. This process also included a review of the data to assess the accuracy, precision, and completeness based upon procedures described in the guidance documents such as the Environmental Protection Agency (EPA) *National Functional Guidelines for Inorganic Data Review (EPA 1994) and National Functional Guidelines for Organic Data Review (EPA 1999)*. Quality assurance/quality control (QA/QC) summary forms and data reports were reviewed.

Samples were submitted to General Engineering Laboratories, Inc., in Charleston, South Carolina, for the following analyses: SW-846 8270 Polyaromatic Hydrocarbons (PAHs) and SW-846 8081 Organochlorine Pesticides.

Sample results that were not within the acceptance limits were appended with a qualifying flag, which consisted of a single- or double-letter code that indicated a possible problem with the data. The qualifying flags originated during the data review and validation processes. These also include the secondary, or the two-digit "sub-qualifier" flags. The secondary qualifiers provide the reasoning behind the assignment of a qualifier flag to the data. The secondary qualifiers are presented and defined below.

Attachment 1 lists the changes in data qualifiers, due to the validation process.

The following primary flags were used to qualify the data:

[=] Detected. The analyte was analyzed for and detected at the concentration shown.

[J] Estimated. The analyte was present but the reported value may not be accurate or precise.

[U] Undetected. The analyte was analyzed for but not detected above the method detection limit.

[UJ] Detection limit estimated. The analyte was analyzed for but qualified as not detected; the result is estimated.

[R] Rejected. The data is not useable.

Secondary Data Validation Qualifiers

Code	Definition
2S	Second Source
BL	Blank
BD	Blank Spike/Blank Spike Duplicate or (LCS/LCSD) Precision
BS	Blank Spike/LCS
CC	Continuing Calibration Verification
DL	Dilution
FD	Field Duplicate
HT	Holding Time
IB	In-Between (metals - B's → J's)
IC	Initial Calibration
IS	Internal Standard
LD	Lab Duplicate
LR	Concentration exceeded Linear Range
MD	MS/MSD or LCS/LCSD Precision
MS	Matrix Spike/Matrix Spike Duplicate
OT	Other (see DV worksheet)
PD	Pesticide Degradation
PS	Post Spike
RE	Re-extraction/Re-analysis
SD	Serial Dilution
SS	Spiked Surrogate
TN	Tune

Table 1 - Chemical Analytical Methods – Field and Quality Control Samples

SDG Number	Site ID	Station ID	Sample ID	Date Collected	Matrix	Lab Sample ID	Sample Type	Pest (SW8081)	PAHs (SW8270)
47940	643	G643SB028	643SB02801	08/21/01	SO	47940001	N	X	
47940	643	G643SB028	643CB02801	08/21/01	SO	47940002	FD	X	
47940	643	G643SB029	643SB02901	08/21/01	SO	47940003	N		X
47940	643	G643SB029	643CB02901	08/21/01	SO	47940004	FD		X
47940	643	G643EB028	643EB028L1	08/21/01	SQ	47940005	EB	X	X

MATRIX CODE

SO - Soil
SQ - Soil QC Samples

SAMPLE TYPE CODE

EB - Equipment Blank
FD - Field Duplicate
N - Native Sample

ANALYSIS CODE

Pest - Pesticides
PAHs - Polyaromatic Hydrocarbons

Organic Parameters

Quality Control Review

The following list represents the QA/QC measures that were reviewed during the data quality evaluation procedure for organic data.

- **Holding Times** – The holding times are evaluated to verify that samples were extracted and analyzed within holding times.
- **Blank samples** – Method blanks and equipment blanks were provided for this project. Blank samples enable the reviewer to determine if an analyte may be attributed to sampling or laboratory procedures, rather than environmental contamination from site activities.
- **Surrogate Recoveries** – Surrogate Compounds are added to each sample and the recoveries are used to monitor lab performance and possible matrix interference.
- **Lab Control Sample (LCS)** – This sample is a "controlled matrix", either laboratory reagent water or Ottawa sand, in which target compounds have been added prior to extraction/analysis. The recoveries serve as a monitor of the overall performance of each step during the analysis, including sample preparation.
- **Field Duplicate Samples** – These samples are collected to determine precision between a native and its duplicate. This information can only be determined when target compounds are detected.
- **Matrix Spike/Matrix Spike Duplicate (MS/MSD) Samples** – Spike recovery is used to evaluate potential matrix interferences, as well as accuracy. Precision information is also determined by calculating the reproducibility between the recoveries of each spiked parameter.
- **GC/MS Tuning** – The mass spectrum of the tuning compound is evaluated for method compliance. The criteria are established to verify the proper mass assignment and mass resolution.
- **Initial Calibration** – The initial calibration ensures that the instrument is capable of producing acceptable qualitative and quantitative data for the compounds of interest.
- **Continuing Calibration** – The continuing calibration checks satisfactory performance of the instrument and its predicted response to the target compounds.
- **Internal Standards** – The internal standards (retention time and response) are evaluated for method compliance. The internal standards are used in quantitation of the target parameters and monitor the instrument sensitivity and response for stability during each analysis.
- **Confirmation** – If GCMS methodology is not initially used for analysis, SW-846 method 8000 requires confirmation when the composition of samples is not well characterized. Therefore, even when the identification has been confirmed on a dissimilar column or detector, the agreement of the quantitative results on both columns is evaluated. For

Pesticide analyses covered in this report, confirmation was performed using a dissimilar analytical column. The laboratory analyzed samples with a gas chromatograph (GC) utilizing simultaneous primary and confirmation data acquisition. Per SW-86 method 8000, 40% RPD criteria was used as the acceptance limit.

Organochlorine Pesticide Analyses

The QA/QC parameters for the Organochlorine Pesticide analyses by method SW-846 8081A for all of the samples were within acceptable control limits, except as noted below:

Calibrations

All initial and continuing calibration criteria were met except as noted in Table 2 below.

TABLE 2
Exceptions to Initial Calibration Criteria and Continuing Calibration Criteria: Pesticides
Charleston Naval Complex, Zone G, Charleston, SC

Instrument/Calibration Date	Analyte	%Relative Standard Deviation (ICAL)/ %Difference (CCAL)	Associated Samples
ECD1A/DB-XLB -CCAL – 8/30, 23:57	4,4'-DDE	16.5% high	47940-5
ECD1A/DB-XLB-CCAL – 8/31, 02:57	4,4'-DDE	25.5% high	47940-5
	4,4'-DDD	29.5% high	
	4,4'-DDT	19.5% high	
ECD1A/DB-17MS -CCAL – 8/31, 02:57	4,4'-DDE	18.0% high	47940-5
	4,4'-DDD	21.5% high	

No flags were applied to the compounds since the associated sample was a field QC sample, an equipment blank.

Precision – Field Duplicates

Samples 47940-1 and 47940-2 did not meet field duplicate precision criteria for 4,4'-DDE and 4,4'-DDD. A control limit of ± 35 percent for the RPD was used for original and duplicate soil sample values. The RPD for 4,4'-DDE was 50.7% and for 4,4'-DDD was 158.4%. Often non-homogeniety in soil matrices will account for high RPD values. No data is qualified solely on field duplicate precision results, but in conjunction with other QC parameters such as surrogate recoveries. No flags were applied to these results due to the RPD values.

Polyaromatic Hydrocarbons (PAH) Analyses

The QA/QC parameters for the PAH analyses for all of the samples were within acceptable control limits, except as noted below.

Calibrations

All initial and continuing calibration criteria were met except as noted in Table 3 below.

TABLE 3
Exceptions to Initial Calibration Criteria and Continuing Calibration Criteria: PAHs
Charleston Naval Complex, Zone G, Charleston, SC

Instrument/Calibration Date	Analyte	%Relative Standard Deviation (ICAL)/ %Difference (CCAL)	Associated Samples
MSD2 -CCAL –8/31, 18:22	Benzo(b)fluoranthene	20.4% high	47940-5

No flags were applied to the compound since the associated sample was a field QC sample, an equipment blank.

Internal Standard Area

All internal standard areas were within QC limits except as noted in Table 4 below.

TABLE 4
Internal Standard Area out of Criteria: PAHs
Charleston Naval Complex, Zone G, Charleston, SC

SDG	Sample	Internal Standards	Flags applied to compounds associated with IS out
47940	#3	IS#6-48% low	Detects-J, Non-detects-UJ
47940	#4	IS#6-44% low	Detects-J, Non-detects-UJ

Rejected Data

No data was rejected for this sampling event.

Conclusion

A review of the analytical data submitted regarding the investigation of AOC 643 in Zone G at the Charleston Naval Complex, Charleston, South Carolina by CH2M HILL has been completed. An overall evaluation of the data indicates that the sample handling, shipment, and analytical procedures have been adequately completed, and that the analytical results should be considered usable as qualified.

The analytical data had minor QC concerns as discussed above, requiring minimal flagging. However, the validation review demonstrated that the analytical systems were generally in control and the data results can be used in the decision making process.

HEARTLAND
ENVIRONMENTAL SERVICES, INC.

Data Validation Report

SDG#:	39715
Date:	October 15, 1999
Client Name:	Ensafe
Project/Site Name:	Charleston Zone G
Date Sampled:	July 28 & 29, 1999
Number of Samples:	22 Non-Aqueous Sample(s) with 0 MS/MSD(s) 1 Aqueous Sample(s) with 0 MS/MSD(s)
Laboratory:	Southwest Laboratory of Oklahoma, Inc.
Validation Guidance:	National Functional Guidelines for Organic and Inorganic Data, February, 1994
QA/QC Level:	DQO Level III
Method(s) Utilized:	SW846 Third Edition
Analytical Fractions:	Volatiles, Semivolatiles, Pesticides, PCBs, SPLP Pesticides, SPLP PCBs, Metals, SPLP Metals and Total Organic Carbons

Analytical data in this report were screened to determine usability of results and also to determine contractual compliance relative to these requirements and deliverables. This screening assumes analytical results are correct as reported and merely provides an interpretation of the reported quality control results. A minimum of 10% of all laboratory calculations have been verified as part of this validation. All instrument output, i.e. spectra, chromatograms, etc., for each sample have been carefully reviewed. The end-user is urged to review the Specific Findings and associated Data Qualifications presented in this report. Annotated Form 1s or spreadsheets for all samples reviewed are included after the Data Assessment Narratives. Form 1s for MS/MSD samples or spreadsheets are not annotated.

The release of this Data Validation Report is authorized by the following signature:

Craig G. Searson — 10-18-99.

for Paul B. Humburg, President — Date

4127 Plaza 94 South • St. Charles, MO 63304
(636) 936-1332 • Fax (636) 936-1335

SDG# 39715

Samples and Fractions Reviewed

Sample Identifications — Analytical Fractions

ENSAFE ID	MATRIX	VOA		SVOA		PEST		PCB		SP-PEST		SP-PCB		MET		SP-MET		TOC	
FDSTB03101	WATER	X																	
FDSSH02801	SOIL		X		X		X								X				
FDSSH02802	SOIL		X		X		X								X				
FDSSH02901	SOIL		X		X		X								X				
FDSSH02902	SOIL		X		X		X								X				
FDSSH03001	SOIL		X		X		X								X				
FDSCH03001	SOIL		X		X		X								X				
FDSSH03002	SOIL		X		X		X								X				
FDSSH03101	SOIL		X		X		X								X				
FDSCH03101	SOIL		X		X		X								X				
FDSSH03102	SOIL		X		X		X								X				
003SB01101	SOIL						X												
003SB01102	SOIL						X												
003SB01201	SOIL						X												
003CB01201	SOIL						X												
003SB01202	SOIL						X												
003SB01402	SOIL						X				X								X
633SB01101	SOIL						X												
633CB01101	SOIL						X												
633SB01102	SOIL						X												
633SB01202	SOIL								X				X						X
643SB01302	SOIL						X				X				X		X		X
642SB01102	SOIL														X		X		X
Total Billable Samples (Water/Soil)		1	10	0	10	0	20	0	1	0	2	0	1	0	12	0	2	0	4

VOA= Volatiles
SVOA= Semivolatiles
PEST= Pesticides
PCB= PCBs
SP-PEST= SPLP Pesticides
SP-PCB= SPLP PCBs
MET= Metals
SP-MET= SPLP Metals
TOC= Total Organic Carbons

ATALCP3
0/01/99

CJW 10/22/99

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

PLP-METAL													
	SAMPLE ID ------->	642-S-B011-02		643-S-B013-02		BLK-0-9715-07		BLK-0-9715-08					
	ORIGINAL ID ----->	642SB01102		643SB01302		PBW		PBWT					
	LAB SAMPLE ID --->	39726.01		39726.02		PBW		PBWT					
	ID FROM REPORT -->	642SB01102		643SB01302		PBW		PBWT					
	SAMPLE DATE ----->	07/29/99		07/29/99		07/29/99		07/29/99					
	DATE EXTRACTED -->	08/03/99		08/03/99		08/03/99		08/03/99					
	DATE ANALYZED --->	08/04/99		08/04/99		08/04/99		08/04/99					
	MATRIX ---------->	Soil		Soil		Water		Water					
	UNITS ---------->	UG/L	A	UG/L	A	UG/L	D	UG/L	D				
CAS #	Parameter	39715		39715		39715		39715					
7439-97-6	Mercury (Hg)	1.4	~~B~~ J	1.2	~~B~~ J	1.	U	1.	U				
7429-90-5	Aluminum (Al)	307.		216.		32.1	U	42.5	B				
7440-36-0	Antimony (Sb)	5.	U	5.	U	5.	U	5.	U				
7440-38-2	Arsenic (As)	3.3	U	3.3	U	3.3	U	3.3	U				
7440-39-3	Barium (Ba)	288.		8.	~~B~~ J	0.4	U	1.	B				
7440-41-7	Beryllium (Be)	0.3	U	0.3	U	0.3	U	0.3	U				
7440-43-9	Cadmium (Cd)	1.4	~~B~~ J	0.3	U	0.3	U	17.5	B				
7440-70-2	Calcium (Ca)	1860.		2800.		394.	B	172.	U				
7440-47-3	Chromium (Cr)	0.5	U	0.68	~~B~~ J	0.5	U	0.95	B				
7440-48-4	Cobalt (Co)	1.7	U	1.7	U	1.7	U	1.7	U				
7440-50-8	Copper (Cu)	10.3	~~B~~ J	5.1	~~B~~ J	1.	B	1.4	B				
7439-89-6	Iron (Fe)	159.		462.		24.2	U	332.					
7439-92-1	Lead (Pb)	6.5	~~B~~ J	4.5	~~B~~ J	2.1	U	3.2					
7439-95-4	Magnesium (Mg)	216.	~~B~~ J	325.		37.	U	37.	U				
7439-96-5	Manganese (Mn)	1.6	~~B~~ J	4.3	~~B~~ J	1.2	U	1.3	B				
7440-02-0	Nickel (Ni)	1.3	~~B~~ J	1.	~~B~~ J	0.8	U	0.93	B				
7782-49-2	Selenium (Se)	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				
7440-28-0	Thallium (Tl)	2.3	U	2.3	U	2.6	B	2.3	U				
7440-62-2	Vanadium (V)	1.1	~~B~~ J	2.2	~~B~~ J	0.9	U	0.9	U				
7440-66-6	Zinc (Zn)	74.6	U	19.5	~~B~~ U	34.3		11.2	B				
7440-31-5	Tin (Sn)	29.5	U	29.5	U	29.5	U	29.5	U				
7440-09-7	Potassium (K)	353.	U	353.	U	353.	U	353.	U				
7440-23-5	Sodium (Na)	3450.		8330.		67.	U	310.	B				

PBW 10/12/99

*** Lab Results - Unvalidated Data - Do NOT Cite ***

10-22-99

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

PLP-P/PCB

SAMPLE ID ------->	003-S-B014-02	633-S-B012-02	643-S-B013-02	BLK-0-9715-20	BLK-0-9715-21	BLK-0-9715-22
ORIGINAL ID ----->	003SB01402	633SB01202	643SB01302	BL0910WG	BL0910WH	TB0990908B
LAB SAMPLE ID --->	40227.03	40227.02	40227.01	BL0910WG	BL0910WH	TB0990908B
ID FROM REPORT -->	003SB01402	633SB01202	643SB01302	BL0910WG	BL0910WH	TB0990908B
SAMPLE DATE ----->	07/28/99	07/29/99	07/29/99	09/07/99	09/07/99	09/07/99
DATE EXTRACTED -->	09/11/99	09/11/99	09/11/99	09/10/99	09/10/99	09/10/99
DATE ANALYZED --->	09/14/99	09/14/99	09/14/99	09/16/99	09/13/99	09/13/99
MATRIX ---------->	Soil	Soil	Soil	Water	Water	Water
UNITS ---------->	UG/L A	UG/L A	UG/L A	UG/L D	UG/L D	UG/L D

CAS #	Parameter	39715	39715	39715	39715	39715	39715
12674-11-2	Aroclor-1016	1.3 U uJ	1. U uJ	1.2 U uJ	??????????	1. U	1.2 U
11104-28-2	Aroclor-1221	1.3 U	1. U	1.2 U	??????????	1. U	1.2 U
11141-16-5	Aroclor-1232	1.3 U	1. U	1.2 U	??????????	1. U	1.2 U
53469-21-9	Aroclor-1242	1.3 U	1. U	1.2 U	??????????	1. U	1.2 U
12672-29-6	Aroclor-1248	1.3 U	1. U	1.2 U	??????????	1. U	1.2 U
11097-69-1	Aroclor-1254	1.3 U	1. U	1.2 U	??????????	1. U	1.2 U
11096-82-5	Aroclor-1260	1.3 U	1. U	1.2 U	??????????	1. U	1.2 U
319-84-6	alpha-BHC	0.04 U	??????????	0.053 U	0.04 U	??????????	??????????
319-85-7	beta-BHC	0.04 U	??????????	0.053 U	0.04 U	??????????	??????????
319-86-8	delta-BHC	0.04 U	??????????	0.053 U	0.04 U	??????????	??????????
58-89-9	gamma-BHC (Lindane)	0.04 U	??????????	0.053 U	0.04 U	??????????	??????????
76-44-8	Heptachlor	0.04 U	??????????	0.053 U	0.04 U	??????????	??????????
309-00-2	Aldrin	0.04 U	??????????	0.053 U	0.04 U	??????????	??????????
1024-57-3	Heptachlor epoxide	0.04 U	??????????	0.053 U	0.04 U	??????????	??????????
959-98-8	Endosulfan I	0.04 U	??????????	0.053 U	0.04 U	??????????	??????????
60-57-1	Dieldrin	0.08 U	??????????	0.11 U	0.08 U	??????????	??????????
72-55-9	4,4'-DDE	0.08 U	??????????	0.11 U	0.08 U	??????????	??????????
72-20-8	Endrin	0.08 U uJ	??????????	0.11 U uJ	0.08 U	??????????	??????????
33213-65-9	Endosulfan II	0.08 U uJ	??????????	0.11 U uJ	0.08 U	??????????	??????????
72-54-8	4,4'-DDD	0.08 U	??????????	0.11 U	0.08 U	??????????	??????????
1031-07-8	Endosulfan sulfate	0.08 U	??????????	0.11 U	0.08 U	??????????	??????????
50-29-3	4,4'-DDT	0.08 U	??????????	0.11 U	0.08 U	??????????	??????????
72-43-5	Methoxychlor	0.38 U	??????????	0.51 U	0.38 U	??????????	??????????
53494-70-5	Endrin ketone	0.08 U	??????????	0.11 U	0.08 U	??????????	??????????
7421-93-4	Endrin aldehyde	0.08 U	??????????	0.11 U	0.08 U	??????????	??????????
5103-71-9	alpha-Chlordane	0.04 U	??????????	0.053 U	0.04 U	??????????	??????????
5103-74-2	gamma-Chlordane	0.04 U	??????????	0.053 U	0.04 U	??????????	??????????
8001-35-2	Toxaphene	2.5 U	??????????	3.3 U	2.5 U	??????????	??????????

SPLP-PCB ONLY

10/4/99

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

PLP-P/PCB			
	SAMPLE ID ------->	BLK-0-9715-23	
	ORIGINAL ID ----->	TB990908B	
	LAB SAMPLE ID --->	TB990908B	
	ID FROM REPORT -->	TB990908B	
	SAMPLE DATE ----->	09/07/99	
	DATE EXTRACTED -->	09/10/99	
	DATE ANALYZED --->	09/16/99	
	MATRIX ---------->	Water	
	UNITS ---------->	UG/L	D
CAS #	Parameter	39715	
12674-11-2	Aroclor-1016	??????????	
11104-28-2	Aroclor-1221	??????????	
11141-16-5	Aroclor-1232	??????????	
53469-21-9	Aroclor-1242	??????????	
12672-29-6	Aroclor-1248	??????????	
11097-69-1	Aroclor-1254	??????????	
11096-82-5	Aroclor-1260	??????????	
319-84-6	alpha-BHC	0.044 U	
319-85-7	beta-BHC	0.044 U	
319-86-8	delta-BHC	0.044 U	
58-89-9	gamma-BHC (Lindane)	0.044 U	
76-44-8	Heptachlor	0.044 U	
309-00-2	Aldrin	0.044 U	
1024-57-3	Heptachlor epoxide	0.044 U	
959-98-8	Endosulfan I	0.044 U	
60-57-1	Dieldrin	0.089 U	
72-55-9	4,4'-DDE	0.089 U	
72-20-8	Endrin	0.089 U	
33213-65-9	Endosulfan II	0.089 U	
72-54-8	4,4'-DDD	0.089 U	
1031-07-8	Endosulfan sulfate	0.089 U	
50-29-3	4,4'-DDT	0.089 U	
72-43-5	Methoxychlor	0.42 U	
53494-70-5	Endrin ketone	0.089 U	
7421-93-4	Endrin aldehyde	0.089 U	
5103-71-9	alpha-Chlordane	0.044 U	
5103-74-2	gamma-Chlordane	0.044 U	
8001-35-2	Toxaphene	2.8 U	

JKC 10/14/99

048

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

846-META

	SAMPLE ID -------->	642-S-B011-02		643-S-B013-02		BLK-0-9715-06		FDS-S-H028-01		FDS-S-H028-02		FDS-S-H029-01	
	ORIGINAL ID ----->	642SB01102		643SB01302		PBS		FDSSH02801		FDSSH02802		FDSSH02901	
	LAB SAMPLE ID --->	40420.01		40420.02		PBS		39715.10		39715.11		39726.11	
	ID FROM REPORT -->	642SB01102		643SB01302		PBS		FDSSH02801		FDSSH02802		FDSSH02901	
	SAMPLE DATE ----->	07/29/99		07/29/99		07/29/99		07/28/99		07/28/99		07/29/99	
	DATE EXTRACTED -->	09/23/99		09/23/99		08/10/99		08/17/99		08/17/99		08/17/99	
	DATE ANALYZED --->					08/12/99		08/18/99		08/18/99		08/18/99	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	MG/KG	A	MG/KG	A	MG/KG	D	MG/KG	A	MG/KG	A	MG/KG	A
CAS #	Parameter	39715		39715		39715		39715		39715		39715	
7429-90-5	Aluminum (Al)	4820.		5050.		2.8	U	4350.		15500.		11700.	
7440-36-0	Antimony (Sb)	0.38	B J	0.62	B J	0.27	U	0.31	U UJ	0.31	U UJ	0.34	U UJ
7440-38-2	Arsenic (As)	1.7		7.9		0.19	U	1.4		9.3		10.9	
7440-39-3	Barium (Ba)	14.		14.8		0.12	U	16.3		31.7		28.9	
7440-41-7	Beryllium (Be)	0.15	B J	0.6	B J	0.08	U	0.25	B J	0.52	B J	0.33	B J
7440-43-9	Cadmium (Cd)	0.26	B J	0.36	B J	0.03	U	0.04	B J	0.03	U	0.04	U
7440-70-2	Calcium (Ca)	579.	B J	28900.		25.8	U	886.		647.		3680.	
7440-47-3	Chromium (Cr)	8.5		16.4		0.14	U	4.9		25.6		19.9	
7440-48-4	Cobalt (Co)	0.49	B J	2.2	B J	0.08	U	1.5	B J	3.1		2.	B J
7440-50-8	Copper (Cu)	47.6		59.5		0.36	B	1.8	B U	1.2	B U	8.	
7439-89-6	Iron (Fe)	4920.		10100.		3.3	U	2280.		19800.		15300.	
7439-92-1	Lead (Pb)	32.8		76.6		0.22	U	63.4		9.6		41.	
7439-95-4	Magnesium (Mg)	258.		1760.		9.2	U	194.		964.		944.	
7439-96-5	Manganese (Mn)	16.1		113.		0.06	U	15.4		72.6		47.1	
7439-97-6	Mercury (Hg)	0.36		0.03	B J	0.017	U	0.04	B J	0.13		0.09	
7440-02-0	Nickel (Ni)	2.3	B J	8.		0.36	U	2.2	B J	5.1		5.2	
7440-09-7	Potassium (K)	119.	B J	520.		15.2	U	89.6	B J	409.		325.	
7782-49-2	Selenium (Se)	0.39	U	0.53	U	0.33	U	0.37	U	0.47	B J	0.55	B J
7440-22-4	Silver (Ag)	0.14	U	0.19	U	0.12	U	0.14	U	0.14	U	0.15	U
7440-23-5	Sodium (Na)	362.		614.		50.2	U	232.	B J	335.	B J	209.	B J
7440-28-0	Thallium (Tl)	0.4	U	0.6	B J	0.34	U	0.38	U	0.39	U	0.42	U
7440-31-5	Tin (Sn)	6.2	B U	16.6	B J	2.7	B	3.	B U	3.2	B U	3.7	B U
7440-62-2	Vanadium (V)	10.3		18.4		0.07	U	5.8		42.2		25.8	
7440-66-6	Zinc (Zn)	59.3		195.		1.5	B	16.		18.5		67.5	

10/12/99

*** Lab Results - Unvalidated Data - Do NOT Cite ***

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

846-META	SAMPLE ID ------->	FDS-S-H029-02	FDS-S-H030-01	FDS-C-H030-01	FDS-S-H030-02	FDS-S-H031-01	FDS-C-H031-01
	ORIGINAL ID ----->	FDSSH02902	FDSSH03001	FDSCH03001	FDSSH03002	FDSSH03101	FDSCH03101
	LAB SAMPLE ID --->	39726.12	39715.07	39715.08	39715.09	39726.07	39726.08
	ID FROM REPORT -->	FDSSH02902	FDSSH03001	FDSCH03001	FDSSH03002	FDSSH03101	FDSCH03101
	SAMPLE DATE ----->	07/29/99	07/28/99	07/28/99	07/28/99	07/29/99	07/29/99
	DATE EXTRACTED -->	08/17/99	08/17/99	08/17/99	08/17/99	08/17/99	08/17/99
	DATE ANALYZED --->	08/18/99	08/18/99	08/18/99	08/18/99	08/18/99	08/18/99
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A	MG/KG A
CAS #	Parameter	39715	39715	39715	39715	39715	39715
7429-90-5	Aluminum (Al)	17700.	7820.	16200.	7860.	8820.	12100.
7440-36-0	Antimony (Sb)	0.32 ~~NU~~ U J	0.34 ~~B~~ U J	0.35 ~~B~~ U J	0.31 ~~B~~ U J	0.31 ~~NU~~ U J	0.3 ~~NU~~ U J
7440-38-2	Arsenic (As)	7.8	4.8	6.5	2.4	3.9	6.9
7440-39-3	Barium (Ba)	24.6	23.4	24.7	13.6	22.6	25.1
7440-41-7	Beryllium (Be)	0.34 ~~B~~ J	0.37 ~~B~~ J	0.37 ~~B~~ J	0.17 ~~B~~ J	0.36 ~~B~~ J	0.59
7440-43-9	Cadmium (Cd)	0.04 U	0.28 ~~B~~ J	0.04 U	0.03 U	0.03 U	0.03 U
7440-70-2	Calcium (Ca)	1420.	101000.	6300.	1170.	853.	1100.
7440-47-3	Chromium (Cr)	31.6	17.	38.7	14.8	17.6	22.3
7440-48-4	Cobalt (Co)	3. ~~B~~ J	5.3	2.4 ~~B~~ J	1. ~~B~~ J	2.2 ~~B~~ J	2.6 ~~B~~ J
7440-50-8	Copper (Cu)	2.4 ~~B~~ J	5.1 ~~B~~ J	1.9 ~~B~~ J	0.69 ~~B~~ U	2. ~~B~~ J	3.3 ~~B~~ J
7439-89-6	Iron (Fe)	24600.	12000.	30000.	11200.	12500.	18200.
7439-92-1	Lead (Pb)	12.9	179.	15.1	22.2	8.4	10.1
7439-95-4	Magnesium (Mg)	2320.	1630.	992.	627.	845.	1140.
7439-96-5	Manganese (Mn)	78.1	117.	28.4	22.	36.5	60.5
7439-97-6	Mercury (Hg)	0.06	0.39	0.63	0.04 ~~B~~ J	0.05	0.03 ~~B~~ J
7440-02-0	Nickel (Ni)	5.8	7.6	4.5 ~~B~~ J	1.8 ~~B~~ J	3.4 ~~B~~ J	4.9
7440-09-7	Potassium (K)	666.	422.	555.	302.	394.	511.
7782-49-2	Selenium (Se)	0.39 U	0.42 U	0.84	0.38 U	0.38 U	0.36 U
7440-22-4	Silver (Ag)	0.14 U	0.15 U	0.16 U	0.14 U	0.14 U	0.13 U
7440-23-5	Sodium (Na)	185. ~~B~~ J	421.	403.	320. ~~B~~ J	240. ~~B~~ J	262. ~~B~~ J
7440-28-0	Thallium (Tl)	0.41 U	0.43 U	0.77 ~~B~~ J	0.39 U	0.39 U	0.64 ~~B~~ J
7440-31-5	Tin (Sn)	4.5 ~~B~~ U	3.6 ~~B~~ U	3.9 ~~B~~ U	4.2 ~~B~~ U	4.2 ~~B~~ U	3.3 ~~B~~ U
7440-62-2	Vanadium (V)	37.9	21.8	58.8	23.1	22.2	35.1
7440-66-6	Zinc (Zn)	34.2	47.8	21.	18.3	18.3	21.8

PBZ 10/12/99

052

*** Lab Results - Unvalidated Data - Do NOT Cite ***

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

W846-META

SAMPLE ID ------->	FDS-S-H031-02
ORIGINAL ID ----->	FDSSH03102
LAB SAMPLE ID --->	39726.09
ID FROM REPORT -->	FDSSH03102
SAMPLE DATE ----->	07/29/99
DATE EXTRACTED -->	08/17/99
DATE ANALYZED --->	08/18/99
MATRIX ---------->	Soil
UNITS ---------->	MG/KG A

CAS #	Parameter	39715		
7429-90-5	Aluminum (Al)	15300.		
7440-36-0	Antimony (Sb)	0.32	~~NU~~ U	J
7440-38-2	Arsenic (As)	8.3		
7440-39-3	Barium (Ba)	23.7		
7440-41-7	Beryllium (Be)	0.38	~~B~~ J	
7440-43-9	Cadmium (Cd)	0.04	U	
7440-70-2	Calcium (Ca)	693.		
7440-47-3	Chromium (Cr)	38.3		
7440-48-4	Cobalt (Co)	2.1	~~B~~ J	
7440-50-8	Copper (Cu)	1.4	~~B~~ U	
7439-89-6	Iron (Fe)	28900.		
7439-92-1	Lead (Pb)	9.6		
7439-95-4	Magnesium (Mg)	963.		
7439-96-5	Manganese (Mn)	18.8		
7439-97-6	Mercury (Hg)	0.26		
7440-02-0	Nickel (Ni)	4.1	~~B~~ J	
7440-09-7	Potassium (K)	486.		
7782-49-2	Selenium (Se)	1.7		
7440-22-4	Silver (Ag)	0.14	U	
7440-23-5	Sodium (Na)	278.	~~B~~ J	
7440-28-0	Thallium (Tl)	0.62	~~B~~ J	
7440-31-5	Tin (Sn)	3.6	~~B~~ U	
7440-62-2	Vanadium (V)	48.4		
7440-66-6	Zinc (Zn)	16.8		

RBG 10/12/99

.053

10/22/99

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

W846-PEST

SAMPLE ID ------->	003-S-B011-01	003-S-B011-01 DL	003-S-B011-02	003-S-B011-02 DL	003-S-B012-01	003-S-B012-01 DL
ORIGINAL ID ----->	003SB01101	003SB01101	003SB01102	003SB01102	003SB01201	003SB01201
LAB SAMPLE ID --->	39715.04	39715.04	39715.05	39715.05	39715.01	39715.01
ID FROM REPORT -->	003SB01101	003SB01101	003SB01102	003SB01102	003SB01201	003SB01201
SAMPLE DATE ----->	07/28/99	07/28/99	07/28/99	07/28/99	07/28/99	07/28/99
DATE EXTRACTED -->	07/30/99	07/30/99	07/30/99	07/30/99	07/30/99	08/02/99
DATE ANALYZED --->	08/05/99	08/24/99	08/05/99	08/24/99	08/05/99	08/18/99
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG C	UG/KG A	UG/KG C	UG/KG A	UG/KG C

CAS #	Parameter	39715	39715	39715	39715	39715	39715
319-84-6	alpha-BHC	1.4 U	14. U UR	1.4 U	14. U UR	14. U	2700. U UR
319-85-7	beta-BHC	1.4 U	14. U	1.4 U	14. U	14. U	2700. U
319-86-8	delta-BHC	1.4 U	14. U	1.4 U	14. U	14. U	2700. U
58-89-9	gamma-BHC (Lindane)	1.4 U	14. U	1.4 U	14. U	14. U	2700. U
76-44-8	Heptachlor	1.4 U	14. U	1.4 U	14. U	14. U	2700. U
309-00-2	Aldrin	1.4 U	14. U	1.4 U	14. U	14. U	2700. U
1024-57-3	Heptachlor epoxide	1.4 U	14. U	1.4 U	14. U	14. U	2700. U
959-98-8	Endosulfan I	1.4 U	14. U	1.4 U	14. U	14. U	2700. U
60-57-1	Dieldrin	2.7 U	27. U	2.7 U	27. U	26. U	5300. U
72-55-9	4,4'-DDE	72. 92. D E	72. D R	2.7 U	27. U	1100. J E	5300. U
72-20-8	Endrin	2.7 U	27. U UR	2.7 U	27. U	26. U	5300. U
33213-65-9	Endosulfan II	2.7 U	27. U	2.7 U	27. U	26. U	5300. U
72-54-8	4,4'-DDD	2.7 U	27. U	2.7 U	27. U	5400 720. D E	5900. D R
1031-07-8	Endosulfan sulfate	2.7 U	27. U	2.7 U	27. U	26. U	5300. U R
50-29-3	4,4'-DDT	71 140. D J E	71. D R	20. J E	27. U	75000 8000. D E	78000. D R
72-43-5	Methoxychlor	14. U	140. U UR	14. U	140. U	140. U	27000. U UR
53494-70-5	Endrin ketone	3. U	27. U	3. U	27. U	26. U	5300. U
7421-93-4	Endrin aldehyde	2.7 U	27. U	2.7 U	27. U	26. U	5300. U
5103-71-9	alpha-Chlordane	1.4 U	14. U	1.4 U	14. U	14. U	2700. U
5103-74-2	gamma-Chlordane	1.4 U	14. U	1.4 U	14. U	14. U	2700. U
8001-35-2	Toxaphene	88. U	880. U	91. U	910. U	880. U	180000. U
12674-11-2	Aroclor-1016	30. U	30. U	35. U	35. U	39. U	39. U
11104-28-2	Aroclor-1221	30. U	30. U	35. U	35. U	39. U	39. U
11141-16-5	Aroclor-1232	30. U	30. U	35. U	35. U	39. U	39. U
53469-21-9	Aroclor-1242	30. U	30. U	35. U	35. U	39. U	39. U
12672-29-6	Aroclor-1248	30. U	30. U	35. U	35. U	39. U	39. U
11097-69-1	Aroclor-1254	30. U	30. U	35. U	35. U	39. U	39. U
11096-82-5	Aroclor-1260	30. U	30. U	35. U	35. U	39. U	39. U

10/14/99

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

846-PEST													
	SAMPLE ID ------->	003-C-B012-01		003-C-B012-01 DL		003-S-B012-02		003-S-B012-02 DL		003-S-B014-02		633-S-B011-01	
	ORIGINAL ID ----->	003CB01201		003CB01201		003SB01202		003SB01202		003SB01402		633SB01101	
	LAB SAMPLE ID --->	39715.02		39715.02		39715.03		39715.03		39715.06		39726.04	
	ID FROM REPORT -->	003CB01201		003CB01201		003SB01202		003SB01202		003SB01402		633SB01101	
	SAMPLE DATE ----->	07/28/99		07/28/99		07/28/99		07/28/99		07/28/99		07/29/99	
	DATE EXTRACTED -->	07/30/99		08/02/99		07/30/99		08/02/99		07/30/99		08/02/99	
	DATE ANALYZED --->	08/05/99		08/18/99		08/05/99		08/18/99		08/05/99		08/17/99	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	C	UG/KG	A	UG/KG	C	UG/KG	A	UG/KG	A
CAS #	Parameter	39715		39715		39715		39715		39715		39715	
319-84-6	alpha-BHC	15.	U	6000.	U UR	14.	U	2800.	U UR	1.4	U	1.5	U
319-85-7	beta-BHC	15.	U	6000.	U	14.	U	2800.	U	1.4	U	1.5	U
319-86-8	delta-BHC	15.	U	6000.	U	14.	U	2800.	U	1.4	U	1.5	U
58-89-9	gamma-BHC (Lindane)	15.	U	6000.	U	14.	U	2800.	U	1.4	U	1.5	U
76-44-8	Heptachlor	15.	U	6000.	U	14.	U	2800.	U	1.4	U	1.5	U
309-00-2	Aldrin	15.	U	6000.	U	14.	U	2800.	U	1.4	U	1.5	U
1024-57-3	Heptachlor epoxide	15.	U	6000.	U	14.	U	2800.	U	1.4	U	1.5	U
959-98-8	Endosulfan I	15.	U	6000.	U	14.	U	2800.	U	1.4	U	1.5	U
60-57-1	Dieldrin	29.	U	12000.	U	27.	U	5500.	U	2.7	U	2.8	U
72-55-9	4,4'-DDE	3200.	J E	12000.	U	1500.	J E	5500.	U	2.7	U	2.8	U
72-20-8	Endrin	29.	U	12000.	U	27.	U	5500.	U	2.7	U	2.8	U
33213-65-9	Endosulfan II	29.	U	12000.	U	27.	U	5500.	U	2.7	U	2.8	U
72-54-8	4,4'-DDD	1900.	J PE	12000.	U	1200.	PE	6100.	DP	2.7	U	2.8	U
1031-07-8	Endosulfan sulfate	29.	U	12000.	U	27.	U	5500.	U UR	2.7	U	2.8	U
50-29-3	4,4'-DDT	96000.	D E	100000.	U R	66000.	D E	73000.	R	2.7	U	2.8	U
72-43-5	Methoxychlor	150.	U	60000.	U UR	140.	U	28000.	U UR	14.	U	15.	U
53494-70-5	Endrin ketone	29.	U	12000.	U	27.	U	5500.	U	3.	U	3.	U
7421-93-4	Endrin aldehyde	29.	U	12000.	U	27.	U	5500.	U	2.7	U	2.8	U
5103-71-9	alpha-Chlordane	15.	U	6000.	U	14.	U	2800.	U	1.4	U	1.5	U
5103-74-2	gamma-Chlordane	28.	UL	6000.	U	14.	U	2800.	U	2.4	UL	1.5	U
8001-35-2	Toxaphene	960.	U	380000.	U	910.	U	180000.	U	90.	U	94.	U
12674-11-2	Aroclor-1016	38.	U	38.	U	36.	U	36.	U	35.	U	36.	U
11104-28-2	Aroclor-1221	38.	U	38.	U	36.	U	36.	U	35.	U	36.	U
11141-16-5	Aroclor-1232	38.	U	38.	U	36.	U	36.	U	35.	U	36.	U
53469-21-9	Aroclor-1242	38.	U	38.	U	36.	U	36.	U	35.	U	36.	U
12672-29-6	Aroclor-1248	38.	U	38.	U	36.	U	36.	U	35.	U	36.	U
11097-69-1	Aroclor-1254	38.	U	38.	U	36.	U	36.	U	35.	U	36.	U
11096-82-5	Aroclor-1260	38.	U	38.	U	36.	U	36.	U	35.	U	36.	U

GJC 10/14/99

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

SW846-PEST													
	SAMPLE ID ------->	633-S-B011-01 DL		633-C-B011-01		633-C-B011-01 DL		633-S-B011-02		633-S-B011-02 DL		633-S-B012-02	
	ORIGINAL ID ----->	633SB01101		633CB01101		633CB01101		633SB01102		633SB01102		633SB01202	
	LAB SAMPLE ID --->	39726.04		39726.05		39726.05		39726.06		39726.06		39726.03	
	ID FROM REPORT -->	633SB01101		633CB01101		633CB01101		633SB01102		633SB01102		633SB01202	
	SAMPLE DATE ----->	07/29/99		07/29/99		07/29/99		07/29/99		07/29/99		07/29/99	
	DATE EXTRACTED -->	08/02/99		08/02/99		08/02/99		08/02/99		08/02/99		08/02/99	
	DATE ANALYZED --->	08/18/99		08/17/99		08/18/99		08/17/99		08/18/99		08/17/99	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	C	UG/KG	A	UG/KG	C	UG/KG	A	UG/KG	C	UG/KG	A
CAS #	Parameter	39715		39715		39715		39715		39715		39715	
319-84-6	alpha-BHC	15.	U UR	1.5	U	15.	U UR	1.7	U	17.	U UR	??????????	
319-85-7	beta-BHC	15.	U	1.5	U	15.	U	1.7	U	17.	U	??????????	
319-86-8	delta-BHC	15.	U	1.5	U	15.	U	1.7	U	17.	U	??????????	
58-89-9	gamma-BHC (Lindane)	15.	U	1.5	U	15.	U	1.7	U	17.	U	??????????	
76-44-8	Heptachlor	15.	U	1.5	U	15.	U	1.7	U	17.	U	??????????	
309-00-2	Aldrin	15.	U	1.5	U	15.	U	1.7	U	17.	U	??????????	
1024-57-3	Heptachlor epoxide	15.	U	1.5	U	15.	U	1.7	U	17.	U	??????????	
959-98-8	Endosulfan I	15.	U	1.5	U	15.	U	1.7	U	17.	U	??????????	
60-57-1	Dieldrin	28.	U	2.9	U	29.	U	3.3	U	33.	U	??????????	
72-55-9	4,4'-DDE	28.	U	2.9	U	29.	U	3.3	U	33.	U	??????????	
72-20-8	Endrin	29.	DP	2.9	U	29.	U	3.3	U	51.	D	??????????	
33213-65-9	Endosulfan II	28.	U	2.9	U	29.	U	3.3	U	33.	U	??????????	
72-54-8	4,4'-DDD	28.	U	2.9	U	29.	U	3.3	U	33.	U	??????????	
1031-07-8	Endosulfan sulfate	28.	U	2.9	U	29.	U	3.3	U	33.	U	??????????	
50-29-3	4,4'-DDT	28.	U	2.9	U	29.	U	3.3	U	33.	U	??????????	
72-43-5	Methoxychlor	150.	U	15.	U	150.	U	17.	U	170.	U	??????????	
53494-70-5	Endrin ketone	28.	U	3.	U	29.	U	3.	U	33.	U	??????????	
7421-93-4	Endrin aldehyde	28.	U	2.9	U	29.	U	3.3	U	33.	U	??????????	
5103-71-9	alpha-Chlordane	15.	U	1.5	U	15.	U	1.7	U	17.	U	??????????	
5103-74-2	gamma-Chlordane	15.	U	1.5	U	15.	U	1.7	U	17.	U	??????????	
8001-35-2	Toxaphene	940.	U	96.	U	960.	U	110.	U	1100.	U	??????????	
12674-11-2	Aroclor-1016	36.	U	39.	U	39.	U	41.	U	41.	U	37.	U
11104-28-2	Aroclor-1221	36.	U	39.	U	39.	U	41.	U	41.	U	37.	U
11141-16-5	Aroclor-1232	36.	U	39.	U	39.	U	41.	U	41.	U	37.	U
53469-21-9	Aroclor-1242	36.	U	39.	U	39.	U	41.	U	41.	U	37.	U
12672-29-6	Aroclor-1248	36.	U	39.	U	39.	U	41.	U	41.	U	37.	U
11097-69-1	Aroclor-1254	36.	U	39.	U	39.	U	41.	U	41.	U	37.	U
11096-82-5	Aroclor-1260	36.	U	39.	U	39.	U	41.	U	41.	U	37.	U

PCBs ONLY

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

W846-PEST													
	SAMPLE ID ------->	643-S-B013-02		643-S-B013-02 DL		BLK-0-9715-01		BLK-0-9715-02		BLK-0-9715-03		BLK-0-9715-04	
	ORIGINAL ID ----->	643SB01302		643SB01302 DL		BL0730SN		BL0730SO		BL0802SH		BL0802SI	
	LAB SAMPLE ID --->	39726.02		39726.02		BL0730SN		BL0730SO		BL0802SH		BL0802SI	
	ID FROM REPORT -->	643SB01302		643SB01302DL		BL0730SN		BL0730SO		BL0802SH		BL0802SI	
	SAMPLE DATE ----->	07/29/99		07/29/99		07/29/99		07/29/99		07/29/99		07/29/99	
	DATE EXTRACTED -->	08/02/99		08/02/99		07/30/99		07/30/99		08/02/99		08/02/99	
	DATE ANALYZED --->	08/17/99		08/18/99		08/05/99		08/11/99		08/16/99		08/18/99	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	C	UG/KG	D	UG/KG	D	UG/KG	D	UG/KG	D
CAS #	Parameter	39715		39715		39715		39715		39715		39715	
319-84-6	alpha-BHC	1.8	U	18.	U UR	??????????		1.3	U	??????????		1.3	U
319-85-7	beta-BHC	1.8	U	18.	U	??????????		1.3	U	??????????		1.3	U
319-86-8	delta-BHC	1.8	U	18.	U	??????????		1.3	U	??????????		1.3	U
58-89-9	gamma-BHC (Lindane)	1.8	U	18.	U	??????????		1.3	U	??????????		1.3	U
76-44-8	Heptachlor	1.8	U	18.	U	??????????		1.3	U	??????????		1.3	U
309-00-2	Aldrin	1.8	U	18.	U	??????????		1.3	U	??????????		1.3	U
1024-57-3	Heptachlor epoxide	1.8	U	18.	U	??????????		1.3	U	??????????		1.3	U
959-98-8	Endosulfan I	1.8	U	18.	U	??????????		1.3	U	??????????		1.3	U
60-57-1	Dieldrin	3.4	U	34.	U	??????????		2.5	U	??????????		2.4	U
72-55-9	4,4'-DDE	200. 150. D	E	200.	U	??????????		2.5	U	??????????		2.4	U
72-20-8	Endrin	3.4	U	57.	P UR	??????????		2.5	U	??????????		2.4	U
33213-65-9	Endosulfan II	3.4	U	34.	U UR	??????????		2.5	U	??????????		2.4	U
72-54-8	4,4'-DDD	6.8		34.	U	??????????		2.5	U	??????????		2.4	U
1031-07-8	Endosulfan sulfate	3.4	U	34.	U	??????????		2.5	U	??????????		2.4	U
50-29-3	4,4'-DDT	32.	P	88.	P	??????????		2.5	U	??????????		2.4	U
72-43-5	Methoxychlor	18.	U	180.	U UR	??????????		13.	U	??????????		13.	U
53494-70-5	Endrin ketone	3.	U	34.	U	??????????		2.5	U	??????????		2.	U
7421-93-4	Endrin aldehyde	3.4	U	34.	U	??????????		2.5	U	??????????		2.4	U
5103-71-9	alpha-Chlordane	1.8	U	18.	U	??????????		1.3	U	??????????		1.3	U
5103-74-2	gamma-Chlordane	4.6	P	18.	U	??????????		1.3	U	??????????		1.3	U
8001-35-2	Toxaphene	110.	U	1100.	U	??????????		83.	U	??????????		81.	U
12674-11-2	Aroclor-1016	45.	U	45.	U	33.	U	??????????		33.	U	??????????	
11104-28-2	Aroclor-1221	45.	U	45.	U	33.	U	??????????		33.	U	??????????	
11141-16-5	Aroclor-1232	45.	U	45.	U	33.	U	??????????		33.	U	??????????	
53469-21-9	Aroclor-1242	45.	U	45.	U	33.	U	??????????		33.	U	??????????	
12672-29-6	Aroclor-1248	45.	U	45.	U	33.	U	??????????		33.	U	??????????	
11097-69-1	Aroclor-1254	45.	U	45.	U	33.	U	??????????		33.	U	??????????	
11096-82-5	Aroclor-1260	45.	U	45.	U	33.	U	??????????		33.	U	??????????	

JAC 10/4/99

0042

ATALCP3
0/01/99

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

SW846-PEST

	SAMPLE ID -------->	FDS-S-H028-01	FDS-S-H028-01 DL	FDS-S-H028-02	FDS-S-H028-02 DL	FDS-S-H029-01	FDS-S-H029-01 DL
	ORIGINAL ID ----->	FDSSH02801	FDSSH02801	FDSSH02802	FDSSH02802	FDSSH02901	FDSSH02901
	LAB SAMPLE ID --->	39715.10	39715.10	39715.11	39715.11	39726.11	39726.11
	ID FROM REPORT -->	FDSSH02801	FDSSH02801	FDSSH02802	FDSSH02802	FDSSH02901	FDSSH02901
	SAMPLE DATE ----->	07/28/99	07/28/99	07/28/99	07/28/99	07/29/99	07/29/99
	DATE EXTRACTED -->	07/30/99	07/30/99	07/30/99	07/30/99	08/02/99	08/02/99
	DATE ANALYZED --->	08/05/99	08/24/99	08/05/99	08/12/99	08/17/99	08/18/99
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ----------->	UG/KG A	UG/KG C	UG/KG A	UG/KG C	UG/KG A	UG/KG C
CAS #	Parameter	39715	39715	39715	39715	39715	39715
319-84-6	alpha-BHC	1.5 U	15. U	1.5 U	15. U	1.6 U	16. U
319-85-7	beta-BHC	1.5 U	15. U	1.5 U	15. U	1.6 U	16. U
319-86-8	delta-BHC	1.5 U	15. U	1.5 U	15. U	1.6 U	16. U
58-89-9	gamma-BHC (Lindane)	1.5 U	15. U	1.5 U	15. U	1.6 U	16. U
76-44-8	Heptachlor	1.5 U	15. U	1.5 U	15. U	1.6 U	16. U
309-00-2	Aldrin	1.5 U	15. U	1.5 U	15. U	1.6 U	16. U
1024-57-3	Heptachlor epoxide	1.5 U	15. U	1.5 U	15. U	1.6 U	16. U
959-98-8	Endosulfan I	1.5 U	15. U	1.5 U	15. U	1.6 U	16. U
60-57-1	Dieldrin	2.8 U	28. U	2.9 U	29. U	3.1 U	31. U
72-55-9	4,4'-DDE	29. P	28. U	2.9 U	29. U	3.1 U	31. U
72-20-8	Endrin	2.8 U	28. U	2.9 U	29. U	3.1 U	420. DP
33213-65-9	Endosulfan II	2.8 U	28. U	2.9 U	29. U	24.	31. U
72-54-8	4,4'-DDD	29. P	28. U	10.	29. U	3.1 U	31. U
1031-07-8	Endosulfan sulfate	2.8 U	28. U	2.9 U	29. U	3.1 U	31. U
50-29-3	4,4'-DDT	46. P	28. U	2.9 U	29. U	47. P	31. U
72-43-5	Methoxychlor	15. U	150. U	15. U	150. U	110. P	540. D
53494-70-5	Endrin ketone	3. U	28. U	3. U	29. U	3. U	31. U
7421-93-4	Endrin aldehyde	8.8 P	28. U	2.9 U	29. U	48. P	31. U
5103-71-9	alpha-Chlordane	1.5 U	15. U	1.5 U	15. U	1.6 U	16. U
5103-74-2	gamma-Chlordane	2.5 P	15. U	1.5 U	15. U	1.6 U	16. U
8001-35-2	Toxaphene	94. U	940. U	96. U	960. U	100. U	1000. U
12674-11-2	Aroclor-1016	37. U	37. U	38. U	38. U	38. U	38. U
11104-28-2	Aroclor-1221	37. U	37. U	38. U	38. U	38. U	38. U
11141-16-5	Aroclor-1232	37. U	37. U	38. U	38. U	38. U	38. U
53469-21-9	Aroclor-1242	37. U	37. U	38. U	38. U	38. U	38. U
12672-29-6	Aroclor-1248	37. U	37. U	38. U	38. U	38. U	38. U
11097-69-1	Aroclor-1254	37. U	37. U	38. U	38. U	38. U	38. U
11096-82-5	Aroclor-1260	37. U	37. U	38. U	38. U	38. U	38. U

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

SW846-PEST

SAMPLE ID ------->	FDS-S-H029-02	FDS-S-H029-02 DL	FDS-S-H030-01	FDS-S-H030-01 DL	FDS-C-H030-01	FDS-C-H030-01 DL
ORIGINAL ID ----->	FDSSH02902	FDSSH02902	FDSSH03001	FDSSH03001	FDSCH03001	FDSCH03001
LAB SAMPLE ID --->	39726.12	39726.12	39715.07	39715.07	39715.08	39715.08
ID FROM REPORT -->	FDSSH02902	FDSSH02902	FDSSH03001	FDSSH03001	FDSCH03001	FDSCH03001
SAMPLE DATE ----->	07/29/99	07/29/99	07/28/99	07/28/99	07/28/99	07/28/99
DATE EXTRACTED -->	08/02/99	08/02/99	07/30/99	07/30/99	07/30/99	07/30/99
DATE ANALYZED --->	08/17/99	08/18/99	08/05/99	08/24/99	08/05/99	08/24/99
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG C	UG/KG A	UG/KG C	UG/KG A	UG/KG C

CAS #	Parameter	39715		39715		39715		39715		39715		39715	
319-84-6	alpha-BHC	1.6	U	16.	U	1.5	U	15.	U	1.7	U	17.	U
319-85-7	beta-BHC	1.6	U	16.	U	1.5	U	15.	U	1.7	U	17.	U
319-86-8	delta-BHC	1.6	U	16.	U	1.5	U	15.	U	1.7	U	17.	U
58-89-9	gamma-BHC (Lindane)	1.6	U	16.	U	1.5	U	15.	U	1.7	U	17.	U
76-44-8	Heptachlor	1.6	U	16.	U	1.5	U	15.	U	1.7	U	17.	U
309-00-2	Aldrin	1.6	U	16.	U	1.5	U	15.	U	1.7	U	17.	U
1024-57-3	Heptachlor epoxide	1.6	U	16.	U	1.5	U	15.	U	1.7	U	17.	U
959-98-8	Endosulfan I	1.6	U	16.	U	1.5	U	15.	U	1.7	U	17.	U
60-57-1	Dieldrin	3.1	U	31.	U	2.8	U	28.	U	4.7	J	32.	U
72-55-9	4,4'-DDE	3.1	U	31.	U	2.8	U	28.	U	3.2	U	32.	U
72-20-8	Endrin	3.1	U	31.	U	2.8	U	28.	U	3.2	U	32.	U
33213-65-9	Endosulfan II	3.1	U	31.	U	2.8	U	28.	U	3.2	U	32.	U
72-54-8	4,4'-DDD	3.1	U	31.	U	2.8	U	28.	U	14.	J	32.	U
1031-07-8	Endosulfan sulfate	3.1	U	31.	U	2.8	U	28.	U	3.2	U	32.	U
50-29-3	4,4'-DDT	72.	PE	31.	U	23.	P	28.	U	23.	P	32.	U
72-43-5	Methoxychlor	16.	U	160.	U	15.	U	150.	U	17.	U	170.	U
53494-70-5	Endrin ketone	3.	U	31.	U	3.	U	28.	U	3.	U	32.	U
7421-93-4	Endrin aldehyde	3.1	U	31.	U	2.8	U	28.	U	8.8	P	32.	U
5103-71-9	alpha-Chlordane	1.6	U	16.	U	1.5	U	15.	U	1.7	U	17.	U
5103-74-2	gamma-Chlordane	1.6	U	16.	U	2.3	P	15.	U	5.8	P	17.	U
8001-35-2	Toxaphene	100.	U	1000.	U	94.	U	940.	U	110.	U	1100.	U
12674-11-2	Aroclor-1016	40.	U	40.	U	42.	U	42.	U	39.	U	39.	U
11104-28-2	Aroclor-1221	40.	U	40.	U	42.	U	42.	U	39.	U	39.	U
11141-16-5	Aroclor-1232	40.	U	40.	U	42.	U	42.	U	39.	U	39.	U
53469-21-9	Aroclor-1242	40.	U	40.	U	42.	U	42.	U	39.	U	39.	U
12672-29-6	Aroclor-1248	40.	U	40.	U	42.	U	42.	U	39.	U	39.	U
11097-69-1	Aroclor-1254	40.	U	40.	U	42.	U	42.	U	39.	U	39.	U
11096-82-5	Aroclor-1260	40.	U	40.	U	42.	U	42.	U	39.	U	39.	U

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

846-PEST													
	SAMPLE ID ------->	FDS-S-H030-02		FDS-S-H030-02 DL		FDS-S-H031-01		FDS-S-H031-01 DL		FDS-C-H031-01		FDS-C-H031-01 DL	
	ORIGINAL ID ----->	FDSSH03002		FDSSH03002		FDSSH03101		FDSSH03101		FDSCH03101		FDSCH03101	
	LAB SAMPLE ID --->	39715.09		39715.09		39726.07		39726.07		39726.08		39726.08	
	ID FROM REPORT -->	FDSSH03002		FDSSH03002		FDSSH03101		FDSSH03101		FDSCH03101		FDSCH03101	
	SAMPLE DATE ----->	07/28/99		07/28/99		07/29/99		07/29/99		07/29/99		07/29/99	
	DATE EXTRACTED -->	07/30/99		07/30/99		08/02/99		08/02/99		08/02/99		08/02/99	
	DATE ANALYZED --->	08/05/99		08/24/99		08/17/99		08/18/99		08/17/99		08/18/99	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	C	UG/KG	A	UG/KG	C	UG/KG	A	UG/KG	C
CAS #	Parameter	39715		39715		39715		39715		39715		39715	
319-84-6	alpha-BHC	1.5	U	15.	U UR	1.4	U	270.	U UR	1.5	U	750.	U UR
319-85-7	beta-BHC	1.5	U	15.	U	1.4	U	270.	U	1.5	U	750.	U
319-86-8	delta-BHC	1.5	U	15.	U	1.4	U	270.	U	1.5	U	750.	U
58-89-9	gamma-BHC (Lindane)	1.5	U	15.	U	1.4	U	270.	U	1.5	U	750.	U
76-44-8	Heptachlor	1.5	U	15.	U	110.	J E	270.	U	220.	J E	750.	U
309-00-2	Aldrin	1.5	U	15.	U	1.4	U	270.	U	1.5	U	750.	U
1024-57-3	Heptachlor epoxide	1.5	U	15.	U	270.	J PE	270.	U	1.5	U J	750.	U
959-98-8	Endosulfan I	1.5	U	15.	U	1.4	U	270.	U	1.5	U	750.	U
60-57-1	Dieldrin	2.9	U	29.	U	2.6	U	520.	U	2.9	U	1400.	U
72-55-9	4,4'-DDE	2.9	U	29.	U	2.6	U	520.	U	2.9	U	1400.	U
72-20-8	Endrin	2.9	U	29.	U	2.6	U	520.	U	2.9	U	1400.	U
33213-65-9	Endosulfan II	2.9	U	29.	U	2.6	U	520.	U	2.9	U	1400.	U
72-54-8	4,4'-DDD	2.9	U	29.	U	2.6	U	520.	U	2.9	U	1400.	U
1031-07-8	Endosulfan sulfate	2.9	U	29.	U	12.4 56.	~~HF~~ E PU	520.	U	42 370	~~M~~ J E P	1400.	U
50-29-3	4,4'-DDT	2.9	U	29.	U	54.	J E	520.	U	120.	J E	1400.	U
72-43-5	Methoxychlor	15.	U	150.	U	59.	J	2700.	U	180.	J	7500.	U
53494-70-5	Endrin ketone	3.	U	29.	U	3.	U	520.	U	3.	U	1400.	U
7421-93-4	Endrin aldehyde	2.9	U	29.	U	2.6	U	520.	U	2.9	U	1400.	U
5103-71-9	alpha-Chlordane	1.5	U	15.	U	2000 2000.	D J PE	2400.	D R	1000 4300.	D J PE	7000.	R D
5103-74-2	gamma-Chlordane	1.5	U	15.	U	2700 2400.	D J E	2700.	D R	7900 4800.	D J E	7900.	R D
8001-35-2	Toxaphene	96.	U	960.	U	87.	U	17000.	U UR	96.	U	48000.	U
12674-11-2	Aroclor-1016	35.	U	35.	U	35.	U	35.	U	36.	U	36.	U
11104-28-2	Aroclor-1221	35.	U	35.	U	35.	U	35.	U	36.	U	36.	U
11141-16-5	Aroclor-1232	35.	U	35.	U	35.	U	35.	U	36.	U	36.	U
53469-21-9	Aroclor-1242	35.	U	35.	U	35.	U	35.	U	36.	U	36.	U
12672-29-6	Aroclor-1248	35.	U	35.	U	35.	U	35.	U	36.	U	36.	U
11097-69-1	Aroclor-1254	35.	U	35.	U	35.	U	35.	U	36.	U	36.	U
11096-82-5	Aroclor-1260	35.	U	35.	U	35.	U	35.	U	36.	U	36.	U

correction based on form 10 results

correction based on form 10 results
JC 10/4/99

045

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

SW846-PEST

SAMPLE ID ------->	FDS-S-H031-02	FDS-S-H031-02 DL	
ORIGINAL ID ----->	FDSSH03102	FDSSH03102	
LAB SAMPLE ID --->	39726.09	39726.09	
ID FROM REPORT -->	FDSSH03102	FDSSH03102	
SAMPLE DATE ----->	07/29/99	07/29/99	
DATE EXTRACTED -->	08/02/99	08/02/99	
DATE ANALYZED --->	08/17/99	08/18/99	
MATRIX ---------->	Soil	Soil	
UNITS ---------->	UG/KG A	UG/KG C	

CAS #	Parameter	39715		39715	
319-84-6	alpha-BHC	1.5	U	31.	U UR
319-85-7	beta-BHC	1.5	U	31.	U
319-86-8	delta-BHC	1.5	U	31.	U
58-89-9	gamma-BHC (Lindane)	1.5	U	31.	U
76-44-8	Heptachlor	18.		31.	U
309-00-2	Aldrin	1.5	U	31.	U
1024-57-3	Heptachlor epoxide	29. J	PE	31.	U
959-98-8	Endosulfan I	1.5	U	31.	U
60-57-1	Dieldrin	3.	U	60.	U
72-55-9	4,4'-DDE	6.8 J	P	60.	U
72-20-8	Endrin	3.	U	60.	U
33213-65-9	Endosulfan II	3.	U	60.	U
72-54-8	4,4'-DDD	3.	U	60.	U
1031-07-8	Endosulfan sulfate	3.	U	60.	U
50-29-3	4,4'-DDT	3.	U	60.	U
72-43-5	Methoxychlor	15.	U	310.	U
53494-70-5	Endrin ketone	3.	U	60.	U
7421-93-4	Endrin aldehyde	3.	U	60.	U
5103-71-9	alpha-Chlordane	310 210.	D PE	310.	D
5103-74-2	gamma-Chlordane	330 260.	D E	330.	D
8001-35-2	Toxaphene	99.	U	2000.	U UR
12674-11-2	Aroclor-1016	38.	U	38.	U
11104-28-2	Aroclor-1221	38.	U	38.	U
11141-16-5	Aroclor-1232	38.	U	38.	U
53469-21-9	Aroclor-1242	38.	U	38.	U
12672-29-6	Aroclor-1248	38.	U	38.	U
11097-69-1	Aroclor-1254	38.	U	38.	U
11096-82-5	Aroclor-1260	38.	U	38.	U

JAC 10/4/99

046

CH
10/22/99

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

SW846-SVOA

SAMPLE ID ------->	FDS-S-H028-01	FDS-S-H028-01 DL	FDS-S-H028-02	FDS-S-H028-02 DL	FDS-S-H029-01	FDS-S-H029-01 DL
ORIGINAL ID ----->	FDSSH02801	FDSSH02801	FDSSH02802	FDSSH02802	FDSSH02901	FDSSH02901
LAB SAMPLE ID --->	39715.10	39715.10	39715.11	39715.11	39726.11	39726.11
ID FROM REPORT -->	FDSSH02801	FDSSH02801	FDSSH02802	FDSSH02802	FDSSH02901	FDSSH02901
SAMPLE DATE ----->	07/28/99	07/28/99	07/28/99	07/28/99	07/29/99	07/29/99
DATE EXTRACTED -->	07/30/99	07/30/99	07/30/99	07/30/99	08/02/99	08/02/99
DATE ANALYZED --->	08/13/99	08/18/99	08/13/99	08/17/99	08/13/99	08/19/99
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG A	UG/KG C	UG/KG A	UG/KG C	UG/KG A	UG/KG C
CAS # Parameter	39715	39715	39715	39715	39715	39715
108-95-2 Phenol	360. U	3600. U UR	370. U	3700. U UR	410. U	1600. U UR
111-44-4 bis(2-Chloroethyl)ether	360. U	3600. U	370. U	3700. U	410. U	1600. U
95-57-8 2-Chlorophenol	360. U	3600. U	370. U	3700. U	410. U	1600. U
541-73-1 1,3-Dichlorobenzene	360. U	3600. U	370. U	3700. U	410. U	1600. U
106-46-7 1,4-Dichlorobenzene	360. U	3600. U	370. U	3700. U	410. U	1600. U
100-51-6 Benzyl alcohol	360. U	3600. U	370. U	3700. U	410. U	1600. U
95-50-1 1,2-Dichlorobenzene	360. U	3600. U	370. U	3700. U	410. U	1600. U
95-48-7 2-Methylphenol (o-Cresol)	360. U	3600. U	370. U	3700. U	410. U	1600. U
108-60-1 2,2'-oxybis(1-Chloropropane)	360. U	3600. U	370. U	3700. U	410. U	1600. U
106-44-5 4-Methylphenol (p-Cresol)	360. U	3600. U	370. U	3700. U	410. U	1600. U
621-64-7 N-Nitroso-di-n-propylamine	360. U	3600. U	370. U	3700. U	410. U	1600. U
67-72-1 Hexachloroethane	360. U	3600. U	370. U	3700. U	410. U	1600. U
98-95-3 Nitrobenzene	360. U	3600. U	370. U	3700. U	410. U	1600. U
78-59-1 Isophorone	360. U	3600. U	370. U	3700. U	410. U	1600. U
88-75-5 2-Nitrophenol	360. U	3600. U	370. U	3700. U	410. U	1600. U
105-67-9 2,4-Dimethylphenol	360. U	3600. U	370. U	3700. U	410. U	1600. U
65-85-0 Benzoic acid	360. U	3600. U	370. U	3700. U	410. U	1600. U
111-91-1 bis(2-Chloroethoxy)methane	360. U	3600. U	370. U	3700. U	410. U	1600. U
120-83-2 2,4-Dichlorophenol	360. U	3600. U	370. U	3700. U	410. U	1600. U
120-82-1 1,2,4-Trichlorobenzene	360. U	3600. U	370. U	3700. U	410. U	1600. U
91-20-3 Naphthalene	3600 ~~3100.~~ E D	3600. D	1300.	1500. ~~U~~ R	410. U	1600. U
106-47-8 4-Chloroaniline	360. U	3600. U	370. U	3700. U UR	410. U	1600. U
87-68-3 Hexachlorobutadiene	360. U	3600. U	370. U	3700. U	410. U	1600. U
59-50-7 4-Chloro-3-methylphenol	360. U	3600. U	370. U	3700. U	410. U	1600. U
91-57-6 2-Methylnaphthalene	16000 ~~11000.~~ E D	16000. R ~~D~~	27000 ~~18000.~~ E D	27000. ~~U~~ R	410. U	1600. U
77-47-4 Hexachlorocyclopentadiene	360. U	3600. U UR	370. U	3700. U UR	410. U	1600. U
88-06-2 2,4,6-Trichlorophenol	360. U	3600. U	370. U	3700. U	410. U	1600. U
95-95-4 2,4,5-Trichlorophenol	890. U	8900. U	930. U	9300. U	1000. U	4100. U
91-58-7 2-Chloronaphthalene	360. U	3600. U	370. U	3700. U	410. U	1600. U
88-74-4 2-Nitroaniline	890. U	8900. U	930. U	9300. U	1000. U	4100. U
131-11-3 Dimethyl phthalate	360. U	3600. U	370. U	3700. U	410. U	1600. U
208-96-8 Acenaphthylene	360. U	3600. U	370. U	3700. U	410. U	1600. U
99-09-2 3-Nitroaniline	890. U	8900. U	930. U	9300. U	1000. U	4100. U
83-32-9 Acenaphthene	360. U	640. R ~~U~~	980.	1300. ~~U~~ R	190. J	150. ~~U~~ R
51-28-5 2,4-Dinitrophenol	890. U	8900. U UR	930. U	9300. U UR	1000. U	4100. U UR
100-02-7 4-Nitrophenol	890. U	8900. U	930. U	9300. U	1000. U	4100. U

1AA10144A

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

846-SVOA	SAMPLE ID ------->	FDS-S-H028-01		FDS-S-H028-01 DL		FDS-S-H028-02		FDS-S-H028-02 DL		FDS-S-H029-01		FDS-S-H029-01 DL	
	ORIGINAL ID ----->	FDSSH02801		FDSSH02801		FDSSH02802		FDSSH02802		FDSSH02901		FDSSH02901	
	LAB SAMPLE ID --->	39715.10		39715.10		39715.11		39715.11		39726.11		39726.11	
	ID FROM REPORT -->	FDSSH02801		FDSSH02801		FDSSH02802		FDSSH02802		FDSSH02901		FDSSH02901	
	SAMPLE DATE ----->	07/28/99		07/28/99		07/28/99		07/28/99		07/29/99		07/29/99	
	DATE EXTRACTED -->	07/30/99		07/30/99		07/30/99		07/30/99		08/02/99		08/02/99	
	DATE ANALYZED --->	08/13/99		08/18/99		08/13/99		08/17/99		08/13/99		08/19/99	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	C	UG/KG	A	UG/KG	C	UG/KG	A	UG/KG	C
CAS #	Parameter	39715		39715		39715		39715		39715		39715	
132-64-9	Dibenzofuran	360.	U	620.	~~J~~ R	370.	U	770.	~~U~~ J R	64.	J	1600.	~~U~~ UR
121-14-2	2,4-Dinitrotoluene	360.	U	3600.	U UR	370.	U	3700.	~~U~~ UR	410.	U	1600.	~~U~~
606-20-2	2,6-Dinitrotoluene	360.	U	3600.	U	370.	U	3700.	~~U~~	410.	U	1600.	~~U~~
84-66-2	Diethylphthalate	360.	U	3600.	U	370.	U	3700.	~~U~~	410.	U	1600.	~~U~~
7005-72-3	4-Chlorophenylphenylether	360.	U	3600.	U	370.	U	3700.	~~U~~	410.	U	1600.	~~U~~
86-73-7	Fluorene	950.		1200.	~~J~~ R	2000.		2400.	~~U~~ J R	130.	J	84.	~~U~~ J R
100-01-6	4-Nitroaniline	890.	U	8900.	U UR	930.	U	9300.	~~U~~ UR	1000.	U	4100.	~~U~~ UR
534-52-1	2-Methyl-4,6-Dinitrophenol	890.	U	8900.	U	930.	U	9300.	~~U~~	1000.	U	4100.	~~U~~
86-30-6	N-Nitrosodiphenylamine	360.	U	3600.	U	370.	U	3700.	~~U~~	410.	U	1600.	~~U~~
101-55-3	4-Bromophenyl-phenylether	360.	U	3600.	U	370.	U	3700.	~~U~~	410.	U	1600.	~~U~~
118-74-1	Hexachlorobenzene	360.	U	3600.	U	370.	U	3700.	~~U~~	410.	U	1600.	~~U~~
87-86-5	Pentachlorophenol	890.	U	8900.	U	930.	U	9300.	~~U~~	1000.	U	4100.	~~U~~
85-01-8	Phenanthrene	1800.		2100.	~~J~~ R	4400 ~~3800.~~	~~E~~ D	4400.	~~D~~ R	3000.		2500.	~~D~~
120-12-7	Anthracene	360.	U	3600.	U UR	370.	U	3700.	~~U~~ UR	920.		560.	~~D~~ J R
84-74-2	Di-n-butylphthalate	360.	U	3600.	U	370.	U	3700.	~~U~~	410.	U	1600.	~~U~~ UR
206-44-0	Fluoranthene	120.	J	3600.	U	370.	U	3700.	~~U~~	5700 ~~5500.~~	~~E~~ D	5700.	~~D~~ R
129-00-0	Pyrene	130.	J	190.	~~J~~ R	210.	J	250.	~~D~~ J R	5400 ~~5800.~~	~~E~~ D	5400.	~~D~~ R
85-68-7	Butylbenzylphthalate	360.	U	3600.	U UR	370.	U	3700.	~~U~~ UR	410.	U	1600.	~~U~~
91-94-1	3,3'-Dichlorobenzidine	360.	U	3600.	U	370.	U	3700.	~~U~~	410.	U	1600.	~~U~~
56-55-3	Benzo(a)anthracene	35.	J	3600.	U	24.	J	3700.	~~U~~	2900 ~~3600.~~	~~E~~ D	2900.	~~D~~ R
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	140.	J	3600.	U	24.	J	3700.	~~U~~	~~3400~~ ~~70.~~ 410	~~JB~~ U	170.	~~U~~ JB R
218-01-9	Chrysene	75.	J	3600.	U	47.	J	3700.	~~U~~	2700 ~~3400.~~	~~E~~ D	2700.	~~D~~ UR
117-84-0	Di-n-octyl phthalate	360.	U	3600.	U	370.	U	3700.	~~U~~	410.	U	1600.	~~U~~
205-99-2	Benzo(b)fluoranthene	26.	J	3600.	U	370.	U	3700.	~~U~~	2200 ~~3800.~~	~~E~~ D	2200.	~~D~~
207-08-9	Benzo(k)fluoranthene	360.	U	3600.	U	370.	U	3700.	~~U~~	2000.		2000.	~~D~~
50-32-8	Benzo(a)pyrene	23.	J	3600.	U	370.	U	3700.	~~U~~	2600.		1900.	~~D~~
193-39-5	Indeno(1,2,3-cd)pyrene	360.	U	3600.	U	370.	U	3700.	~~U~~	1300.		780.	~~D~~ J R
53-70-3	Dibenz(a,h)anthracene	360.	U	3600.	U	370.	U	3700.	~~U~~	690.		340.	~~D~~ J R
191-24-2	Benzo(g,h,i)perylene	18.	J	3600.	U	370.	U	3700.	~~U~~	1400.		830.	~~D~~ J R

UM101499

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

J846-SVOA																	
	SAMPLE ID ------->	FDS-S-H029-02		FDS-S-H030-01		FDS-S-H030-01 DL		FDS-C-H030-01		FDS-S-H030-02		FDS-S-H031-01	
	ORIGINAL ID ----->	FDSSH02902		FDSSH03001		FDSSH03001		FDSCH03001		FDSSH03002		FDSSH03101	
	LAB SAMPLE ID --->	39726.12		39715.07		39715.07		39715.08		39715.09		39726.07	
	ID FROM REPORT -->	FDSSH02902		FDSSH03001		FDSSH03001		FDSCH03001		FDSSH03002		FDSSH03101	
	SAMPLE DATE ----->	07/29/99		07/28/99		07/28/99		07/28/99		07/28/99		07/29/99	
	DATE EXTRACTED -->	08/02/99		07/30/99		07/30/99		07/30/99		07/30/99		08/02/99	
	DATE ANALYZED --->	08/13/99		08/13/99		08/17/99		08/13/99		08/13/99		08/13/99	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	C	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter	39715		39715		39715		39715		39715		39715	
108-95-2	Phenol	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
111-44-4	bis(2-Chloroethyl)ether	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
95-57-8	2-Chlorophenol	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
541-73-1	1,3-Dichlorobenzene	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
106-46-7	1,4-Dichlorobenzene	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
100-51-6	Benzyl alcohol	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
95-50-1	1,2-Dichlorobenzene	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
95-48-7	2-Methylphenol (o-Cresol)	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
106-44-5	4-Methylphenol (p-Cresol)	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
621-64-7	N-Nitroso-di-n-propylamine	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
67-72-1	Hexachloroethane	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
98-95-3	Nitrobenzene	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
78-59-1	Isophorone	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
88-75-5	2-Nitrophenol	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
105-67-9	2,4-Dimethylphenol	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
65-85-0	Benzoic acid	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
111-91-1	bis(2-Chloroethoxy)methane	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
120-83-2	2,4-Dichlorophenol	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
120-82-1	1,2,4-Trichlorobenzene	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
91-20-3	Naphthalene	420.	U	390.	U	120.	J	34.	J	370.	U	340.	U
106-47-8	4-Chloroaniline	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
87-68-3	Hexachlorobutadiene	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
59-50-7	4-Chloro-3-methylphenol	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
91-57-6	2-Methylnaphthalene	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
77-47-4	Hexachlorocyclopentadiene	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
88-06-2	2,4,6-Trichlorophenol	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
95-95-4	2,4,5-Trichlorophenol	1000.	U	970.	U	1900.	U	1000.	U	930.	U	850.	U
91-58-7	2-Chloronaphthalene	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
88-74-4	2-Nitroaniline	1000.	U	970.	U	1900.	U	1000.	U	930.	U	850.	U
131-11-3	Dimethyl phthalate	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
208-96-8	Acenaphthylene	420.	U	390.	U	130.	J	93.	J	370.	U	340.	U
99-09-2	3-Nitroaniline	1000.	U	970.	U	1900.	U	1000.	U	930.	U	850.	U
83-32-9	Acenaphthene	420.	U	390.	U	170.	J	150.	J	370.	U	340.	U
51-28-5	2,4-Dinitrophenol	1000.	U	970.	U	1900.	U	1000.	U	930.	U	850.	U
100-02-7	4-Nitrophenol	1000.	U	970.	U	1900.	U	1000.	U	930.	U	850.	U

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

SW846-SVOA

	SAMPLE ID ------->	FDS-S-H029-02		FDS-S-H030-01		FDS-S-H030-01 DL		FDS-C-H030-01		FDS-S-H030-02		FDS-S-H031-01	
	ORIGINAL ID ----->	FDSSH02902		FDSSH03001		FDSSH03001		FDSCH03001		FDSSH03002		FDSSH03101	
	LAB SAMPLE ID --->	39726.12		39715.07		39715.07		39715.08		39715.09		39726.07	
	ID FROM REPORT -->	FDSSH02902		FDSSH03001		FDSSH03001		FDSCH03001		FDSSH03002		FDSSH03101	
	SAMPLE DATE ----->	07/29/99		07/28/99		07/28/99		07/28/99		07/28/99		07/29/99	
	DATE EXTRACTED -->	08/02/99		07/30/99		07/30/99		07/30/99		07/30/99		08/02/99	
	DATE ANALYZED --->	08/13/99		08/13/99		08/17/99		08/13/99		08/13/99		08/13/99	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	C	UG/KG	A	UG/KG	A	UG/KG	A
CAS #	Parameter	39715		39715		39715		39715		39715		39715	
132-64-9	Dibenzofuran	420.	U	390.	U	780.	U UR	84.	J	370.	U	340.	U
121-14-2	2,4-Dinitrotoluene	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
606-20-2	2,6-Dinitrotoluene	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
84-66-2	Diethylphthalate	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
7005-72-3	4-Chlorophenylphenylether	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
86-73-7	Fluorene	420.	U	190.	J	210.	~~J~~	180.	J	500.		340.	U
100-01-6	4-Nitroaniline	1000.	U	970.	U	1900.	U UR	1000.	U	930.	U	850.	U
534-52-1	2-Methyl-4,6-Dinitrophenol	1000.	U	970.	U	1900.	U	1000.	U	930.	U	850.	U
86-30-6	N-Nitrosodiphenylamine	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
101-55-3	4-Bromophenyl-phenylether	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
118-74-1	Hexachlorobenzene	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
87-86-5	Pentachlorophenol	1000.	U	970.	U	1900.	U	1000.	U	930.	U	850.	U
85-01-8	Phenanthrene	420.	U	1200.		1400.	U	1000.		290.	J	340.	U
120-12-7	Anthracene	420.	U	600.		630.	J	410.		370.	U	340.	U
84-74-2	Di-n-butylphthalate	420.	U	390.	U	780.	U UR	410.	U	370.	U	17.	J
206-44-0	Fluoranthene	37.	J	4200 4000.	E	4200.		1700.		76.	J	99.	J
129-00-0	Pyrene	29.	J	3100.		3100.		1400.		79.	J	94.	J
85-68-7	Butylbenzylphthalate	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
91-94-1	3,3'-Dichlorobenzidine	420.	U	390.	U	780.	U	410.	U	370.	U	340.	U
56-55-3	Benzo(a)anthracene	22.	J	2200.		2200.		770.		23.	J	82.	J
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	1420 ~~65.~~	~~JB~~ U	44.	J	780.	U UR	80.	J	30.	J	340 ~~45.~~	~~JB~~ U
218-01-9	Chrysene	23.	J	2200.		2100.		790.		26.	J	110.	J
117-84-0	Di-n-octyl phthalate	420.	U	390.	U	780.	U UR	410.	U	370.	U	340.	U
205-99-2	Benzo(b)fluoranthene	35.	J	1900.		1900.		800.		370.	U	140.	J
207-08-9	Benzo(k)fluoranthene	420.	U	1600.		2100.		440.		370.	U	73.	J
50-32-8	Benzo(a)pyrene	420.	U	2000.		2300.		730.		370.	U	94.	J
193-39-5	Indeno(1,2,3-cd)pyrene	420.	U	1200.		1200.		420.		370.	U	39.	J
53-70-3	Dibenz(a,h)anthracene	420.	U	600.		700.	J	230.	J	370.	U	340.	U
191-24-2	Benzo(g,h,i)perylene	420.	U	1200.		1300.		550.		370.	U	39.	J

UU101499

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

SW846-SVOA

	SAMPLE ID ------->	FDS-C-H031-01		FDS-S-H031-02		SBL-0-9715-01		SBL-0-9715-02			
	ORIGINAL ID ----->	FDSCH03101		FDSSH03102		SBLK1		SBLK2			
	LAB SAMPLE ID --->	39726.08		39726.09		SBLK1		SBLK2			
	ID FROM REPORT -->	FDSCH03101		FDSSH03102		SBLK1		SBLK2			
	SAMPLE DATE ----->	07/29/99		07/29/99		07/29/99		07/29/99			
	DATE EXTRACTED -->	08/02/99		08/02/99		07/30/99		08/02/99			
	DATE ANALYZED --->	08/13/99		08/13/99		08/13/99		08/13/99			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ---------->	UG/KG	A	UG/KG	A	UG/KG	D	UG/KG	D		
CAS #	Parameter	39715		39715		39715		39715			
108-95-2	Phenol	340.	U	380.	U	330.	U	330.	U		
111-44-4	bis(2-Chloroethyl)ether	340.	U	380.	U	330.	U	330.	U		
95-57-8	2-Chlorophenol	340.	U	380.	U	330.	U	330.	U		
541-73-1	1,3-Dichlorobenzene	340.	U	380.	U	330.	U	330.	U		
106-46-7	1,4-Dichlorobenzene	340.	U	380.	U	330.	U	330.	U		
100-51-6	Benzyl alcohol	340.	U	380.	U	330.	U	330.	U		
95-50-1	1,2-Dichlorobenzene	340.	U	380.	U	330.	U	330.	U		
95-48-7	2-Methylphenol (o-Cresol)	340.	U	380.	U	330.	U	330.	U		
108-60-1	2,2'-oxybis(1-Chloropropane)	340.	U	380.	U	330.	U	330.	U		
106-44-5	4-Methylphenol (p-Cresol)	340.	U	380.	U	330.	U	330.	U		
621-64-7	N-Nitroso-di-n-propylamine	340.	U	380.	U	330.	U	330.	U		
67-72-1	Hexachloroethane	340.	U	380.	U	330.	U	330.	U		
98-95-3	Nitrobenzene	340.	U	380.	U	330.	U	330.	U		
78-59-1	Isophorone	340.	U	380.	U	330.	U	330.	U		
88-75-5	2-Nitrophenol	340.	U	380.	U	330.	U	330.	U		
105-67-9	2,4-Dimethylphenol	340.	U	380.	U	330.	U	330.	U		
65-85-0	Benzoic acid	340.	U	380.	U	330.	U	330.	U		
111-91-1	bis(2-Chloroethoxy)methane	340.	U	380.	U	330.	U	330.	U		
120-83-2	2,4-Dichlorophenol	340.	U	380.	U	330.	U	330.	U		
120-82-1	1,2,4-Trichlorobenzene	340.	U	380.	U	330.	U	330.	U		
91-20-3	Naphthalene	340.	U	380.	U	330.	U	330.	U		
106-47-8	4-Chloroaniline	340.	U	380.	U	330.	U	330.	U		
87-68-3	Hexachlorobutadiene	340.	U	380.	U	330.	U	330.	U		
59-50-7	4-Chloro-3-methylphenol	340.	U	380.	U	330.	U	330.	U		
91-57-6	2-Methylnaphthalene	340.	U	380.	U	330.	U	330.	U		
77-47-4	Hexachlorocyclopentadiene	340.	U	380.	U	330.	U	330.	U		
88-06-2	2,4,6-Trichlorophenol	340.	U	380.	U	330.	U	330.	U		
95-95-4	2,4,5-Trichlorophenol	850.	U	960.	U	830.	U	830.	U		
91-58-7	2-Chloronaphthalene	340.	U	380.	U	330.	U	330.	U		
88-74-4	2-Nitroaniline	850.	U	960.	U	830.	U	830.	U		
131-11-3	Dimethyl phthalate	340.	U	380.	U	330.	U	330.	U		
208-96-8	Acenaphthylene	340.	U	380.	U	330.	U	330.	U		
99-09-2	3-Nitroaniline	850.	U	960.	U	830.	U	830.	U		
83-32-9	Acenaphthene	340.	U	380.	U	330.	U	330.	U		
51-28-5	2,4-Dinitrophenol	850.	U	960.	U	830.	U	830.	U		
100-02-7	4-Nitrophenol	850.	U	960.	U	830.	U	830.	U		

UM101499

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

SW846-SVOA

SAMPLE ID ------->	FDS-C-H031-01	FDS-S-H031-02	SBL-0-9715-01	SBL-0-9715-02		
ORIGINAL ID ----->	FDSCH03101	FDSSH03102	SBLK1	SBLK2		
LAB SAMPLE ID --->	39726.08	39726.09	SBLK1	SBLK2		
ID FROM REPORT -->	FDSCH03101	FDSSH03102	SBLK1	SBLK2		
SAMPLE DATE ----->	07/29/99	07/29/99	07/29/99	07/29/99		
DATE EXTRACTED -->	08/02/99	08/02/99	07/30/99	08/02/99		
DATE ANALYZED --->	08/13/99	08/13/99	08/13/99	08/13/99		
MATRIX ---------->	Soil	Soil	Soil	Soil		
UNITS ---------->	UG/KG A	UG/KG A	UG/KG D	UG/KG D		

CAS #	Parameter	39715		39715		39715		39715			
132-64-9	Dibenzofuran	340.	U	380.	U	330.	U	330.	U		
121-14-2	2,4-Dinitrotoluene	340.	U	380.	U	330.	U	330.	U		
606-20-2	2,6-Dinitrotoluene	340.	U	380.	U	330.	U	330.	U		
84-66-2	Diethylphthalate	340.	U	380.	U	330.	U	330.	U		
7005-72-3	4-Chlorophenylphenylether	340.	U	380.	U	330.	U	330.	U		
86-73-7	Fluorene	340.	U	380.	U	330.	U	330.	U		
100-01-6	4-Nitroaniline	850.	U	960.	U	830.	U	830.	U		
534-52-1	2-Methyl-4,6-Dinitrophenol	850.	U	960.	U	830.	U	830.	U		
86-30-6	N-Nitrosodiphenylamine	340.	U	380.	U	330.	U	330.	U		
101-55-3	4-Bromophenyl-phenylether	340.	U	380.	U	330.	U	330.	U		
118-74-1	Hexachlorobenzene	340.	U	380.	U	330.	U	330.	U		
87-86-5	Pentachlorophenol	850.	U	960.	U	830.	U	830.	U		
85-01-8	Phenanthrene	340.	U	380.	U	330.	U	330.	U		
120-12-7	Anthracene	340.	U	380.	U	330.	U	330.	U		
84-74-2	Di-n-butylphthalate	17.	J	380.	U	330.	U	330.	U		
206-44-0	Fluoranthene	21.	J	380.	U	330.	U	330.	U		
129-00-0	Pyrene	340.	U	380.	U	330.	U	330.	U		
85-68-7	Butylbenzylphthalate	340.	U	380.	U	330.	U	330.	U		
91-94-1	3,3'-Dichlorobenzidine	340.	U	380.	U	330.	U	330.	U		
56-55-3	Benzo(a)anthracene	340.	U	380.	U	330.	U	330.	U		
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	340 ~~89.~~	~~JB~~ U	380 ~~87.~~	~~JB~~ U	330.	U	28.	J		
218-01-9	Chrysene	340.	U	380.	U	330.	U	330.	U		
117-84-0	Di-n-octyl phthalate	340.	U	380.	U	330.	U	330.	U		
205-99-2	Benzo(b)fluoranthene	340.	U	380.	U	330.	U	330.	U		
207-08-9	Benzo(k)fluoranthene	340.	U	380.	U	330.	U	330.	U		
50-32-8	Benzo(a)pyrene	340.	U	380.	U	330.	U	330.	U		
193-39-5	Indeno(1,2,3-cd)pyrene	340.	U	380.	U	330.	U	330.	U		
53-70-3	Dibenz(a,h)anthracene	340.	U	380.	U	330.	U	330.	U		
191-24-2	Benzo(g,h,i)perylene	340.	U	380.	U	330.	U	330.	U		

UM01499

CAW
10/22/99

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

SW846-VOA

	SAMPLE ID ------->	BLK-0-9715-05		BLK-0-9715-09		BLK-0-9715-10		BLK-0-9715-11		FDS-T-B031-01		FDS-S-H028-01	
	ORIGINAL ID ----->	N990803A		R990804A		R990805A		U990803A		FDST803101		FDSSH02801	
	LAB SAMPLE ID --->	N990803A		R990804A		R990805A		U990803A		39726.10		39715.10	
	ID FROM REPORT -->	N990803A		R990804A		R990805A		U990803A		FDST803101		FDSSH02801	
	SAMPLE DATE ----->	07/29/99		07/29/99		07/29/99		07/29/99		07/29/99		07/28/99	
	DATE ANALYZED --->	08/03/99		08/04/99		08/05/99		08/03/99		08/03/99		08/04/99	
	MATRIX ---------->	Soil		Soil		Soil		Water		Water		Soil	
	UNITS ---------->	UG/KG	D	UG/KG	D	UG/KG	D	UG/L	D	UG/L	B	UG/KG	A
CAS #	Parameter	39715		39715		39715		39715		39715		39715	
74-87-3	Chloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	6.	~~U~~ UJ
74-83-9	Bromomethane	5.	U	5.	U	5.	U	5.	U	5.	U	6.	~~U~~ UJ
75-01-4	Vinyl chloride	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
75-00-3	Chloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	6.	~~U~~ UJ
75-09-2	Methylene chloride	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
67-64-1	Acetone	5.	U	5.	U	5.	U	5.	U	5.	U	80.	
75-15-0	Carbon disulfide	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
78-93-3	2-Butanone (MEK)	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
108-05-4	Vinyl acetate	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
110-75-8	2-Chloroethyl vinyl ether	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
591-78-6	2-Hexanone	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	6.	J
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U
1330-20-7	Xylene (Total)	5.	U	5.	U	5.	U	5.	U	5.	U	6.	U

MM 10/24/99

DATALCP3
10/01/99

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

SW846-VOA

SAMPLE ID -------->	FDS-S-H028-02	FDS-S-H029-01	FDS-S-H029-02	FDS-S-H030-01	FDS-C-H030-01	FDS-S-H030-02
ORIGINAL ID ------>	FDSSH02802	FDSSH02901	FDSSH02902	FDSSH03001	FDSCH03001	FDSSH03002
LAB SAMPLE ID ---->	39715.11	39726.11	39726.12	39715.07	39715.08	39715.09
ID FROM REPORT --->	FDSSH02802	FDSSH02901	FDSSH02902	FDSSH03001	FDSCH03001	FDSSH03002
SAMPLE DATE ------>	07/28/99	07/29/99	07/29/99	07/28/99	07/28/99	07/28/99
DATE ANALYZED ---->	08/05/99	08/03/99	08/04/99	08/05/99	08/05/99	08/05/99
MATRIX ----------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ------------>	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A	UG/KG A

CAS #	Parameter	39715	39715	39715	39715	39715	39715
74-87-3	Chloromethane	7. U	5. U	5. U UJ	5. U	7. U	7. U
74-83-9	Bromomethane	7. U	5. U	5. U UJ	5. U	7. U	7. U
75-01-4	Vinyl chloride	7. U	5. U	5. U	5. U	7. U	7. U
75-00-3	Chloroethane	7. U	5. U	5. U UJ	5. U	7. U	7. U
75-09-2	Methylene chloride	7. U	5. U	5. U	5. U	7. U	7. U
67-64-1	Acetone	7. U	5. U	5. U	5. U	7. U	60.
75-15-0	Carbon disulfide	7. U	5. U	5. U	5. U	7. U	7. U
75-35-4	1,1-Dichloroethene	7. U	5. U	5. U	5. U	7. U	7. U
75-34-3	1,1-Dichloroethane	7. U	5. U	5. U	5. U	7. U	7. U
540-59-0	1,2-Dichloroethene (total)	7. U	5. U	5. U	5. U	7. U	7. U
67-66-3	Chloroform	7. U	5. U	5. U	5. U	7. U	7. U
107-06-2	1,2-Dichloroethane	7. U	5. U	5. U	5. U	7. U	7. U
78-93-3	2-Butanone (MEK)	7. U	5. U	5. U	5. U	7. U	7. U
71-55-6	1,1,1-Trichloroethane	7. U	5. U	5. U	5. U	7. U	7. U
56-23-5	Carbon tetrachloride	7. U	5. U	5. U	5. U	7. U	7. U
108-05-4	Vinyl acetate	7. U	5. U	5. U	5. U	7. U	7. U
75-27-4	Bromodichloromethane	7. U	5. U	5. U	5. U	7. U	7. U
79-34-5	1,1,2,2-Tetrachloroethane	7. U	5. U	5. U	5. U	7. U	7. U
78-87-5	1,2-Dichloropropane	7. U	5. U	5. U	5. U	7. U	7. U
10061-02-6	trans-1,3-Dichloropropene	7. U	5. U	5. U	5. U	7. U	7. U
79-01-6	Trichloroethene	7. U	5. U	5. U	5. U	7. U	7. U
124-48-1	Dibromochloromethane	7. U	5. U	5. U	5. U	7. U	7. U
79-00-5	1,1,2-Trichloroethane	7. U	5. U	5. U	5. U	7. U	7. U
71-43-2	Benzene	7. U	5. U	5. U	5. U	7. U	7. U
10061-01-5	cis-1,3-Dichloropropene	7. U	5. U	5. U	5. U	7. U	7. U
110-75-8	2-Chloroethyl vinyl ether	7. U	5. U	5. U	5. U	7. U	7. U
75-25-2	Bromoform	7. U	5. U	5. U	5. U	7. U	7. U
591-78-6	2-Hexanone	7. U	5. U	5. U	5. U	7. U	7. U
108-10-1	4-Methyl-2-Pentanone (MIBK)	7. U	5. U	5. U	5. U	7. U	7. U
127-18-4	Tetrachloroethene	7. U	5. U	5. U	5. U	7. U	7. U
108-88-3	Toluene	7. U	5. U	5. U	5. U	7. U	7. U
108-90-7	Chlorobenzene	7. U	5. U	5. U	5. U	7. U	7. U
100-41-4	Ethylbenzene	7. U	5. U	5. U	5. U	7. U	7. U
100-42-5	Styrene	7. U	5. U	5. U	5. U	7. U	7. U
1330-20-7	Xylene (Total)	7. U	5. U	5. U	5. U	7. U	7. U

UM101499

*** Lab Results - Unvalida[illegible] Data - Do NOT Cite ***

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

SW846-VOA

	SAMPLE ID ------->	FDS-S-H031-01			FDS-C-H031-01			FDS-S-H031-02					
	ORIGINAL ID ----->	FDSSH03101			FDSCH03101			FDSSH03102					
	LAB SAMPLE ID --->	39726.07			39726.08			39726.09					
	ID FROM REPORT -->	FDSSH03101			FDSCH03101			FDSSH03102					
	SAMPLE DATE ----->	07/29/99			07/29/99			07/29/99					
	DATE ANALYZED --->	08/03/99			08/04/99			08/03/99					
	MATRIX ---------->	Soil			Soil			Soil					
	UNITS ---------->	UG/KG		A	UG/KG		A	UG/KG		A			
CAS #	Parameter	39715			39715			39715					
74-87-3	Chloromethane	5.	~~U~~ UJ		6.	U		5.	U				
74-83-9	Bromomethane	5.	~~U~~ UJ		6.	U		5.	U				
75-01-4	Vinyl chloride	5.	U		6.	U		5.	U				
75-00-3	Chloroethane	5.	~~U~~ UJ		6.	U		5.	U				
75-09-2	Methylene chloride	5.	U		6.	U		5.	U				
67-64-1	Acetone	5.	U		6.	U		5.	U				
75-15-0	Carbon disulfide	5.	U		6.	U		1.	J				
75-35-4	1,1-Dichloroethene	5.	U		6.	U		5.	U				
75-34-3	1,1-Dichloroethane	5.	U		6.	U		5.	U				
540-59-0	1,2-Dichloroethene (total)	5.	U		6.	U		5.	U				
67-66-3	Chloroform	5.	U		6.	U		5.	U				
107-06-2	1,2-Dichloroethane	5.	U		6.	U		5.	U				
78-93-3	2-Butanone (MEK)	5.	U		6.	U		5.	U				
71-55-6	1,1,1-Trichloroethane	5.	U		6.	U		5.	U				
56-23-5	Carbon tetrachloride	5.	U		6.	U		5.	U				
108-05-4	Vinyl acetate	5.	U		6.	U		5.	U				
75-27-4	Bromodichloromethane	5.	U		6.	U		5.	U				
79-34-5	1,1,2,2-Tetrachloroethane	5.	U		6.	U		5.	U				
78-87-5	1,2-Dichloropropane	5.	U		6.	U		5.	U				
10061-02-6	trans-1,3-Dichloropropene	5.	U		6.	U		5.	U				
79-01-6	Trichloroethene	5.	U		6.	U		5.	U				
124-48-1	Dibromochloromethane	5.	U		6.	U		5.	U				
79-00-5	1,1,2-Trichloroethane	5.	U		6.	U		5.	U				
71-43-2	Benzene	5.	U		6.	U		5.	U				
10061-01-5	cis-1,3-Dichloropropene	5.	U		6.	U		5.	U				
110-75-8	2-Chloroethyl vinyl ether	5.	U		6.	U		5.	U				
75-25-2	Bromoform	5.	U		6.	U		5.	U				
591-78-6	2-Hexanone	5.	U		6.	U		5.	U				
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.	U		6.	U		5.	U				
127-18-4	Tetrachloroethene	5.	U		6.	U		5.	U				
108-88-3	Toluene	5.	U		6.	U		5.	U				
108-90-7	Chlorobenzene	5.	U		6.	U		5.	U				
100-41-4	Ethylbenzene	5.	U		6.	U		5.	U				
100-42-5	Styrene	5.	U		6.	U		5.	U				
1330-20-7	Xylene (Total)	5.	U		6.	U		5.	U				

UM101499

CHARLESTON - ZONE G
CHARLESTON ZONE G SOIL (ONLY)
SDG# 39715

TOC

	SAMPLE ID ------->	003-S-B014-02		633-S-B012-02		642-S-B011-02		643-S-B013-02			
	ORIGINAL ID ----->	003SB01402		633SB01202		642SB01102		643SB01302			
	LAB SAMPLE ID --->	40420.04		40420.03		40420.01		40420.02			
	ID FROM REPORT -->	003SB01402		633SB01202		642SB01102		643SB01302			
	SAMPLE DATE ----->	07/28/99		07/29/99		07/29/99		07/29/99			
	DATE EXTRACTED -->	09/23/99		09/23/99		09/23/99		09/23/99			
	DATE ANALYZED --->	09/27/99		09/27/99		09/27/99		09/27/99			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ---------->	MG/KG	A	MG/KG	A	MG/KG	A	MG/KG	A		
CAS #	Parameter	39715	NV	39715	NV	39715	NV	39715	NV		
999900-01-4	Total Organic Carbon (TOC)	??????????		??????????		??????????		??????????			
999900-04-2	TOC (EPA 415.1)	2180.		2100.		4420.		17200.			

Jolie
Change name to
Total Organic Carbon
CAS # 999900-01-4

RBB 10/12/99

050

HEARTLAND
ENVIRONMENTAL SERVICES, INC.

Data Validation Report

SDG#:	41852
Date:	February 17, 2000
Client Name:	Ensafe
Project/Site Name:	Charleston Zone G
Date Sampled:	January 25, 2000
Number of Samples:	23 Non-Aqueous Sample(s) with 0 MS/MSD(s)
Laboratory:	Southwest Laboratory of Oklahoma
Validation Guidance:	National Functional Guidelines for Organic and Inorganic Data, February, 1994
QA/QC Level:	EPA DQO Level III
Method(s) Utilized:	SW846 Third Edition
Analytical Fractions:	Semivolatiles and Metals

Analytical data in this report were screened to determine usability of results and also to determine contractual compliance relative to these requirements and deliverables. This screening assumes analytical results are correct as reported and merely provides an interpretation of the reported quality control results. A minimum of 10% of all laboratory calculations have been verified as part of this validation. All instrument output, i.e. spectra, chromatograms, etc., for each sample have been carefully reviewed. The end-user is urged to review the Specific Findings and associated Data Qualifications presented in this report. Annotated Form 1s or spreadsheets for all samples reviewed are included after the Data Assessment Narratives. Form 1s for MS/MSD samples or spreadsheets are not annotated.

The release of this Data Validation Report is authorized by the following signature:

Craig G. Seazon — 2-24-00.

Paul B. Humburg, President — Date

4127 Plaza 94 South • St Charles, MO 63304
(636) 936-1332 • Fax (636) 936-1335

SDG# 41852

Samples and Fractions Reviewed

Sample Identifications Analytical Fractions

ENSAFE ID	MATRIX	SVOA		MET	
120SB01301	SOIL		X		
120SB01302	SOIL		X		
120SB01401	SOIL		X		
120SB01402	SOIL		X		
120SB01501	SOIL		X		
120SB01502	SOIL		X		
120SB01601	SOIL		X		
120SB01602	SOIL		X		
638SB00601	SOIL				X
638SB00602	SOIL				X
638SB01001	SOIL		X		
638SB01002	SOIL		X		
638SB01101	SOIL		X		
638SB01102	SOIL		X		
643SB01401	SOIL		X		
643SB02101	SOIL		X		X
643SB02102	SOIL		X		X
643SB02501	SOIL		X		X
643SB02502	SOIL		X		X
643SB02601	SOIL		X		X
643SB02602	SOIL		X		X
643SB02701	SOIL		X		X
643SB02702	SOIL		X		X
Total Billable Samples (Water/Soil)		0	21	0	10

SVOA= Semivolatiles
MET= Metals

DATA ASSESSMENT NARRATIVES

DATA ASSESSMENT NARRATIVE

SEMIVOLATILE ORGANICS

General

The organic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, surrogate and matrix spike recoveries, GC/MS performance, tuning results, calibration results and internal standard areas. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the SW-846 Method 8270C for GC/MS Semivolatiles; the National Functional Guidelines for Organic Data Validation, 2/94, and DQO Level III requirements. All comments made within this report should be considered when examining the analytical results. Please refer the specific findings found in each category to the Summary of Data Qualification table.

SDG # 41852

A validation was performed on the Semivolatile Data from SDG 41852. The data was evaluated based on the following parameters:

*	•	Data Completeness
*	•	Holding Times
*	•	GC/MS Tuning
*	•	Calibration
	•	Blanks
	•	Internal Standard Performance
*	•	Surrogate Recoveries
*	•	Matrix Spike/Matrix Spike Duplicates
*	•	Field Duplicates
*	•	Compound Identification
	•	Compound Quantitation

* - All criteria were met for this parameter.

Internal Standards

The following samples exhibited non-compliant EICP area recoveries below the QC limits for the noted internal standards. All reported positive and non-detect results are qualified as estimated, J/UJ.

643SB02101	naphthalene-d8 acenaphthene-d10 phenanthrene-d10
120SB01401	perylene-d12

Blanks

The two (2) method blanks associated with the field samples in this SDG exhibited contamination for which qualifications were required. The end user should note that the action levels indicated for the blank analysis may not involve the same weights, volumes, dilution factors, or percent moisture as associated samples. These factors must be taken into considerations when applying the 5X and 10X criteria to field samples.

Associated blank	Compound	Concentration	Action Level
SBLK1	naphthalene	18J ug/Kg	90 ug/Kg
	bis(2-ethylhexyl)phthalate	43J ug/Kg	430 ug/Kg
SBLK2	bis(2-ethylhexyl)phthalate	20J ug/Kg	200 ug/Kg

Samples	Compound	Qualifications
120SB01301	naphthalene	CRQL
120SB01601		
120SB01501		
120SB01401		
643SB02702		
643SB01401		
638SB01001		
643SB02101		
120SB01402		
643SB02502		
643SB02701		
643SB01102		
643SB02602		
120SB01302		
638SB01101		
643SB02102		
120SB01301	bis(2-ethylhexyl)phthalate	CRQL
120SB01601		
120SB01602		
120SB01501		
120SB01502		
120SB01401		
643SB02702		

Blanks (continued)

Samples	Compound	Qualifications
643SB01401	bis(2-ethylhexyl)phthalate	CRQL
638SB01001		
643SB02101		
120SB01402		
643SB02502		
643SB02701		
643SB01102		
643SB02602		
120SB01302		
638SB01101		
643SB02102		
643SB02501		
643SB02601		
638SB01002		

Compound Quantitation

For the following sample, the E flagged result is not used in favor of the corresponding D flagged result reported in the dilution analysis of the sample. All other results reported in the dilution analysis are not used in favor of the results reported in the lessor dilution of the sample.

120SB01401
643SB02501

System Performance and Overall Assessment

The data, as reported, required qualifications.

GLOSSARY OF DATA QUALIFIERS

QUALIFICATION CODES

U = Not detected

J = Estimated value

UJ = Reported Quantitation limit is qualified as estimated

L = Result is estimated and biased low.

K = Result is estimated and biased high.

R = Result is rejected and unusable

D = Result value is based on dilution analysis

BLANK QUALIFICATION CODES

CRQL =	The sample result for the blank contaminant is less than the sample CRQL and is less than 5X (10X for common laboratory contaminants) the method blank value. The sample result for the blank contaminant is rejected and the CRQL for that compound is reported.
U =	The sample result for the blank contaminant is greater than the sample CRQL and is less than 5X (10X for common laboratory contaminants) the method blank value. The sample result for the blank contaminant is qualified as non detected at the compound value reported.
No Action =	The sample result for the blank contaminant is greater than the sample CRQL and is greater than 5X (10X for common laboratory contaminants) the method blank value. The sample result for the blank contaminant is not qualified with any blank qualifiers.

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	COMPOUND ID	DL	QL
643SB02101	*All associated with* naphthalene-d8 acenaphthene-d10 phenanthrene-d10	+/-	J/UJ
120SB01401	*All associated with* perylene-d12	+/-	J/UJ
120SB01301 120SB01601 120SB01501 120SB01401 643SB02702 643SB01401 638SB01001 643SB02101 120SB01402 643SB02502 643SB02701 643SB01102 643SB02602 120SB01302 638SB01101 643SB02102	naphthalene	+B	CRQL
120SB01301 120SB01601 120SB01602 120SB01501 120SB01502 120SB01401 643SB02702 643SB01401 638SB01001 643SB02101 120SB01402 643SB02502 643SB02701	bis(2-ethylhexyl)phthalate	-B	CRQL

SUMMARY OF DATA QUALIFICATIONS

SAMPLE ID	COMPOUND ID	DL	QL
643SB01102 643SB02602 120SB01302 638SB01101 643SB02102 643SB02501 643SB02601 638SB01002	bis(2-ethylhexyl)phthalate	+B	CRQL
120SB01401 643SB02501	All E flagged compounds	+E	Do not use
120SB01401DL 643SB02501DL	All except corresponding D flagged results	+/-	Do Not use

* DL denotes the Form I qualifier supplied by the laboratory
QL denotes the qualifier used by the data validation firm
+ in the DL column denotes a positive result
- in the DL column denotes a non detect result

DATA ASSESSMENT NARRATIVE
METALS

General

The inorganic findings offered in this screening report assumes that all analytical results are correct as reported and is based upon the examination of the reported holding times, blank analysis results, matrix spike and LCS recoveries, matrix duplicates and calibration results. This report was prepared in compliance relative to the analytical and deliverable requirements specified in the SW 846 methods: the Functional Guidelines for Inorganic Data Validation, February 1994, and DQO Level III requirements. All comments made within this report should be considered when examining the analytical results. Please refer the specific findings found in each category to the Summary of Data Qualification table.

SDGs # 41852

A validation was performed on the Metals Data from SDG 41852. The data was evaluated based on the following parameters.

- * Data Completeness
- * Holding Times
- * Calibrations
- Blanks
- * Interferences
- Matrix Spike Recovery
- * Matrix Duplicates
- * Field Duplicates
- * Laboratory Control Samples
- Serial Dilutions

* - All criteria were met for this parameter.

Preparation and Field Blanks

The preparation and calibration blanks exhibited contamination for the following elements.

Elements	Conc.	Samples affected
Antimony	0.52 mg/kg	all soil samples below 2.6 mg/kg
Barium	0.18 mg/kg	no impact
Cadmium	0.20 mg/kg	all soil samples below 1.0 mg/kg
Iron	6.85 mg/kg	no impact
Lead	0.22 mg/kg	no impact
Manganese	0.09 mg/kg	no impact
Silver	0.55 mg/kg	all soil samples below 2.75 mg/kg

Zinc	0.99 mg/kg	no impact
Tin	3.49 mg/kg	all soil samples below 17.5 mg/kg

The USEPA requires that all sample values below five times the preparation or calibration blank contamination be qualified as non-detect, "U".

The preparation blanks exhibited negative bias for the following elements.

Elements	Conc.	Samples affected
Arsenic	-0.22 mg/kg	all soil samples below 2.2 mg/kg
Mercury	-0.03 mg/kg	all soil samples below 0.3 mg/kg

This reviewer qualifies all samples results below 10 times the absolute value of the negative blank value.

Matrix Spike Recovery results

The matrix spike recovery for soils for Antimony (72%) was below the lower control limits (>30% but <75%). All positive and non-detect results are qualified as estimated, "J" or "UJ"

Matrix Duplicate results

The matrix duplicate RPD for soils for Iron (24%) was below 35%. No qualification is necessary.

Serial Dilution results

The serial dilution result for soils for Zinc was greater than 10%. All positive results are qualified as estimated, "J".

All sample results left with a "B" qualifier after all other qualifications, will be qualified with a "J" qualifier in place of the "B". Value is below the CRDL but greater than the IDL.

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Analyte	DL	QL
all soil samples below 2.6 mg/kg	Sb.	+	U
all soil samples below 1.0 mg/kg	Cd.		
all soil samples below 2.75 mg/kg	Ag.		
all soil samples below 17.5 mg/kg	Sn.		
all soil samples below 2.2 mg/kg	As.	+/U	J/UJ
all soil samples below 0.3 mg/kg	Hg.		
all soil samples	Sb.	+/U	J/UJ
all soil samples	Zn.	+	J
all samples	all analytes	B	J

EN SAFE

800-503-7562
MEMPHIS, TENNESSEE
WILLISTON, SC; CINCINNATI, OH; DALLAS, TX; JACKSON, TN; KNOXVILLE, TN; CALTER, PA; NASHVILLE, TN; NORFOLK, VA; PADUCAH, KY; PENSACOLA, FL; RALEIGH, NC; COLOGNE, GERMANY

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

PROJECT/JOB NO: 2907-051-08420
COC NO:
PO NO: 4
REL NO: 139
LAB NAME: SWL

CLIENT: Naval Base Charleston
PROJECT MANAGER: Charlie Vernay
LOCATION: Zone G
TELE/FAX NO. 843-974-6029
SAMPLERS: (SIGNATURE)

ANALYSIS REQUIRED

FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE TYPE	TYPE/SIZE OF CONTAINER	PRESERVATION TEMP.	PRESERVATION CHEMICAL	NO. OF CONTAINERS	Metals	SVOC									REMARKS
BCG643SB021Ø1	01-25-00	1035	S	4 oz. JARS	4°C	None	2	X	X									
BCG643SB021Ø2		1041					2	X	X									
BCG643SBØ27Ø1		1105					2	X	X									
BCG643SBØ27Ø2		1110					2	X	X									
BCG643SBØ26Ø1		1135					2	X	X									
BCG643SBØ26Ø2		1141					2	X	X									
BCG643SBØ25Ø1		12ØØ					2	X	X									
BCG643SBØ25Ø2		12Ø8					2	X	X									
BCG643SBØ14Ø1		1221					2		X									
BCG12ØSBØ16Ø1		15ØØ					2		X									
BCG12ØSBØ16Ø2		15Ø5					2		X									
BCG12ØSBØ15Ø1		1516					2		X									
BCG12ØSBØ15Ø2		1519					2		X									
BCG12ØSBØ14Ø1		153Ø					2		X									
BCG12ØSBØ14Ø2		1535					2		X									
BCG12ØSBØ13Ø1		155Ø					2		X									

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE
Rachel M. White	1-25-00	PRINTED:		PRINTED:		PRINTED:	
PRINTED: Rachel M. White	TIME 1755	COMPANY:	TIME	COMPANY:	TIME	COMPANY:	TIME
COMPANY: EnSafe							

METHOD OF SHIPMENT: Fed Ex
SHIPMENT NO. 7849147870
SEND RESULTS TO: Charlie Vernay

COMMENTS:

JAN-26-2000 10:18 EN SAFE, INC. 803 856 0107 P.02/03

EN'SAFE

800-588-7967
MEMPHIS, TENNESSEE
TEN, SC; CINCINNATI, OH; DALLAS, TX; JACKSON, TN; KNOXVILLE, TN; MA, PA; NASHVILLE, TN; NORFOLK, VA; PADUCAH, KY; PENSACOLA, FL; RALEIGH, NC; COLOGNE, GERMANY

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

PROJECT/JOB NO: 2907-001-L,420-0

COC NO:

PO NO: 4

REL NO: 139

LAB NAME: SWL

AT Naval Base Charleston

PROJECT MANAGER Charlie Vernay

TION Zone G

TELE/FAX NO. 843-884-0029

LERS: (SIGNATURE)

FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE TYPE	TYPE/SIZE OF CONTAINER	PRESERVATION TEMP.	PRESERVATION CHEMICAL	NO. OF CONTAINERS	SVOC	Metals										REMARKS
G12ØSBØ13Ø2	01-25-00	1557	S	4oz. JARS	4°C	None	2	X											
G638SBØ11Ø1		1626					2	X											
G638SBØ11Ø2		1633					2	X											
G638SBØ1ØØ1		1645					2	X											
G638SBØ1ØØ2		1653					2	X											
G638SBØØ6Ø1		1713					2		X										
G638SBØØ6Ø2		1721					2		X										

Rachel M. White 1-25-00

	DATE		DATE		DATE		DATE
HED: Rachel M. White	1-25-00	RECEIVER:		RELINQUISHER:		RECEIVER:	
Rachel M. White	TIME 1755	PRINTED:	TIME	PRINTED:	TIME	PRINTED:	TIME
EnSafe		COMPANY:		COMPANY:		COMPANY:	

D OF SHIPMENT: FedEx

ENT NO. 4849147870

RESSED TO: Charlie Vernay

CO

COMMENTS:

JAN-26-2000 10:19 EN SAFE, INC. 803 856 0107 P.03/03

EN SAFE

800-345-7243
MEMPHIS, TENNESSEE
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

PAGE 1 OF 2

PROJECT/JOB NO. 2907-00, 08420
COC NO:
PO NO: 4
REL NO: 139
LAB NAME: SWL

CLIENT Naval Base Charleston
PROJECT MANAGER Charlie Vernoy
LOCATION Zone G
TELE/FAX NO. 843-974-6029
SAMPLERS: (SIGNATURE)

ANALYSIS REQUIRED

FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE TYPE	TYPE/SIZE OF CONTAINER	PRESERVATION TEMP.	PRESERVATION CHEMICAL	NO. OF CONTAINERS	Metals	SVOC	REMARKS
BCG6435B021Ø1	01-25-00	1035	S	4oz. JARS	4°C	None	2	X	X	
BCG6435BØ21Ø2		1041					2	X	X	
BCG6435BØ27Ø1		1105					2	X	X	
BCG6435BØ27Ø2		1110					2	X	X	
BCG6435BØ26Ø1		1135					2	X	X	
BCG6435BØ26Ø2		1141					2	X	X	
BCG6435BØ25Ø1		1200					2	X	X	
BCG6435BØ25Ø2		1208					2	X	X	
BCG6435BØ14Ø1		1221					2		X	
BCG12ØSBØ16Ø1		1500					2		X	
BCG12ØSBØ16Ø2		1505					2		X	
BCG12ØSBØ15Ø1		1516					2		X	
BCG12ØSBØ15Ø2		1519					2		X	
BCG12ØSBØ14Ø1		1530					2		X	
BCG12ØSBØ14Ø2		1535					2		X	
BCG12ØSBØ13Ø1		1550					2		X	

RELINQUISHER	DATE	RECEIVER	DATE	RELINQUISHER	DATE	RECEIVER	DATE
Rachel M. White	1-25-00						
PRINTED Rachel M. White	TIME 1755	PRINTED	TIME	PRINTED	TIME	PRINTED	TIME
COMPANY EnSafe		COMPANY		COMPANY		COMPANY	

METHOD OF SHIPMENT: Fed Ex
SHIPMENT NO. 4819147870
RESULTS TO Charlie Vernoy

COMMENTS:

JAN-26-2000 10:16 EN SAFE, INC. 803 856 0107 P.02/03

EN SAFE

800-[illegible]-TEST
MEMPHIS, TENNESSEE
[illegible]TON, SC; CINCINNATI, OH; DALLAS, TX; JACKSON, TN; KNOXVILLE, TN; [illegible]X, PA; NASHVILLE, TN; NORFOLK, VA; PADUCAH, KY; PENSACOLA, FL; RALEIGH, NC; COLOGNE, GERMANY

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

PROJECT/JOB NO: 2907-001-0,120-0
COC NO:
PO NO: 4
REL NO: 139
LAB NAME: SWL

[illegible]NT Naval Base Charleston PROJECT MANAGER Charlie Verney
[illegible]ATION Zone G TELE/FAX NO. 843-884-0029
[illegible]PLERS: (SIGNATURE) [illegible]

FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE TYPE	TYPE/SIZE OF CONTAINER	PRESERVATION TEMP.	PRESERVATION CHEMICAL	NO. OF CONTAINERS	SVOC	Metals									REMARKS
[illegible]G12Ø5BØ13Ø2	01-25-00	1557	S	4 oz. Jars	4°C	None	2	X										
[illegible]G638SBØ11Ø1		1626					2	X										
[illegible]G638SBØ11Ø2		1633					2	X										
[illegible]G638SBØ1ØØ1		1645					2	X										
[illegible]G63BSBØ1ØØ2		1653					2	X										
[illegible]G638SBØØ6Ø1		1713					2		X									
[illegible]G63BSBØØ6Ø2		1721					2		X									

Rachel M. White
1-25-00

[illegible]ISHER: Rachel M. White	DATE 1-25-00	RECEIVER:	DATE	RELINQUISHER:	DATE	RECEIVER:	DATE
[illegible]. Rachel M. White	TIME 1755	PRINTED:	TIME	PRINTED:	TIME	PRINTED:	TIME
[illegible]: EnSafe		COMPANY:		COMPANY:		COMPANY:	

[illegible]OD OF SHIPMENT: Fed EX
[illegible]MENT NO. 4849147870
[illegible] RESULTS TO: Charlie Verney

COMMENTS:

JAN-26-2000 10:19 EN SAFE, INC. 803 856 0107 P.03/03

SOUTHWEST LABORATORY OF OKLAHOMA, INC.
AMERICAN ANALYTICAL & TECHNICAL SERVICES, INC.
1700 West Albany / Broken Arrow, Oklahoma 74012 / Office (918) 251-2858 / Fax (918) 251-2599

SDG NARRATIVE

CONTRACT: ENSAFE	DATE: February 4, 2000
CASE: 41852	SOW NO.: SW846
SDG: 41852	EPISODE NO.: 41852

INORGANIC METAL FRACTION:

Ten soil samples were submitted for ICP and Hg analysis. No major problems occurred during the digestion or analyses of these samples. Please see the DC-1 (Sample Log-In Sheet) for sample conditions and cooler temperatures at receipt. The sample's analysis was completed according to the following:

SWL SOP #	Method SOP is based
SWL-IN-205	SW846 3010A, 3050A, & 6010B
SWL-IN-207	SW846 7470A & 7471A

Initial and Continuing Calibration Checks: No problems.

Initial and Continuing Calibration Blanks: The following elements showed low level concentrations below the Contract Required Detection Limit in the Calibration Blanks: Sb, As, Hg, Ag, V,

No action required.

Linearity near the CRDL (CRA & CRI): The CRI standard was outside of our in-house warning limits of 70 - 130%R for the following elements: Hg & Cu. No action required.

Preparation Blanks: The following elements showed low level concentrations below the Contract Required Detection Limit in the Preparation Blank: Sb, As, Ba, Cd, Cr, Fe, Pb, Mn, Mg, Hg, Ag, Zn, & Sn. No action required.

Lab Control Spikes: No problems.

Matrix Spike (and MSD): The following element was outside the control limits of 75-125% recovery: Sb. All associated samples were flagged with a "N" on Form I's. No action required.

Duplicates (LCSD and MSD): The following elements were outside the control limits of 0-20% RPD: LCSSD = no problems; MSD = Fe. All associated samples were flagged with a "*" on Form I's. No action required.

Serial Dilution (ICP): The serial dilution was outside the control limits of 10% for the following elements: Zn. All associated samples were flagged with an "E" on Form I's. No action required.

SW846 MDLs: The IDL column on the Form 10s contain our MDLs rather than IDLs and the [illegible] column on the Form 10s contain our PQLS rather than CRDLs. MDLs are done on an annual [illegible] (SWOK SOP states between November and February) instead of requiring the quarterly change [illegible] for IDLs.

Sincerely,

Deborah J. Inman
Inorganic Program Manager