Final Bremerton Gasworks Targeted Brownfields Assessment Report Bremerton, Washington

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List of Abbreviations and Acronyms

Acronym	Definition
AET	Apparent Effects Threshold
ARCO	Atlantic Richfield Company
AST	Aboveground storage tank
BAPE	Benzo(a)pyrene Equivalency
bgs	below ground surface
CLP	Contract Laboratory Program
E & E	Ecology and Environment, Inc.
Ecology	Washington State Department of Ecology
EPA	United States Environmental Protection Agency
GPS	Global Positioning System
MCL	Maximum Contaminant Levels
mg/kg	milligram per kilogram
MTCA	Model Toxics Control Act
MW	Monitoring Well
NOAA	National Oceanic and Atmospheric Administration
PAHs	Polycyclic Aromatic Hydrocarbons
QA	Quality Assurance
QC	Quality Control
RACER®	Remedial Action Cost Engineering and Requirements program
RSLs	EPA Regional Screening Levels
SMS	Sediment Management Standards
SQAP	Sample Quality Assurance Plan
SQS	Sediment Quality Standards
SQuiRT	Screening Quick Reference Tables
START	Superfund Technical Assistance and Response Team
SVOC	Semi-Volatile Organic Compounds
TAL	Target Analyte List
TBA	Targeted Brownfields Assessment
TEF	Toxicity Equivalency Factor
TOC	Total Organic Carbon
TPH	Total Petroleum Hydrocarbons
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compound
WAC	Washington Administrative Code

1 Introduction

Pursuant to the United States Environmental Protection Agency, (EPA) Region 10, Superfund Technical Assessment and Response Team (START) Contract Number EP-S7-06-02 and Technical Direction Document Number 07-01-0008, Ecology and Environment, Inc. (E & E) performed a Targeted Brownfields Assessment (TBA) at the Bremerton Gasworks site, which is located in Bremerton, Washington. The EPA's Brownfields Economic Redevelopment Initiative is designed to empower states, cities, tribes, communities, and other stakeholders in economic redevelopment to work together in a timely manner to prevent, assess, safely clean up, and sustainably reuse Brownfields sites (EPA 2002a).

The Bremerton Gasworks site consists of two adjacent properties, the McConkey and the Sesko, zoned for commercial use. This area is planned to be developed into a multipurpose commercial marine area. The multipurpose area would encompass a public access marina, commercial businesses, and potential condominium housing.

This TBA report provides limited sampling data for the Bremerton Gasworks site. The areas that were sampled consist of subsurface soils found under the asphalt-covered former gasworks facilities, subsurface soils near the former aboveground storage tank (AST) areas, and sediment along the Washington Narrows. These locations were selected based on analytical results from a previous investigation conducted under a Brownfields Assessment grant to the City of Bremerton.

The objective of this TBA is to present the results of the limited sampling for preliminary site characterization purposes. This report is organized as follows:

- Section 1 (Introduction): authority for performance of this work and summary of report contents;
- Section 2 (Site Description): description of site conditions, history, and site concerns;
- Section 3 (Investigation and Results): summary of the field effort and chemicals detected at the site and a comparison of detected chemical concentrations to analyte-specific screening criteria;
- Section 4 (Cleanup Options and Cost Estimate): cleanup options for the site based on sample results and analyte-specific screening criteria;
- Section 5 (Conclusions and Recommendations): recommendation for the site based on the information gathered during this investigation;
- Section 6 (References): list of references cited throughout the text;

- Appendix A Photographic Documentation: photographs taken during the initial site visit and during the sampling event;
- Appendix B Screening Criteria and Analytical Results: tables presenting the analyte-specific screening criteria selected and the analytical results summary tables for samples collected;
- Appendix C Sample Plan Alteration Forms: description and justification for deviations from the approved sampling plan;
- Appendix D Global Positioning System Coordinates: a list of all sample location coordinates;
- Appendix E Borehole Reports: completed borehole reports for each borehole location;
- Appendix F Quality Assurance/Quality Control and Data Validation Memoranda: a summary of Quality Assurance/Quality Control (QA/QC) information and data validation memoranda for all samples collected during the investigation; and
- Appendix G RACER Cleanup Option Cost Estimates: a comprehensive cost estimate for each Section 4 cleanup option.

2 Site Description

2.1 Location and Description

The site is located at 1725 Pennsylvania Avenue, approximately 1 mile north by northwest of downtown Bremerton (Figure 2-1) (Geoengineers 2007). The Bremerton Gasworks site is located on two adjacent properties covering approximately 3.68 acres in the city of Bremerton, Kitsap County, Washington. The site is composed of tax parcel numbers 3711-000-001-0409 and 3711-00-001-0607 (McConkey parcels) and tax parcel number 3711-000-022-0101 (Sesko parcel) (TechLaw 2006).

The site is situated in mixed use commercial, industrial, and residential areas. It is bordered by the Washington Narrows waterway to the north, South McConkey Industrial Park to the south, Thompson Avenue to the west, and Pennsylvania Avenue to the east (Figure 2-2).

The site was originally developed by the Western Gas and Utilities Corporation to provide the city of Bremerton with light, heat, and electricity by natural gas products. The gasification plant was in operation from approximately 1930 to 1956. The plant was fueled by shipments of coal delivered by boat. The gasification process may have started by processing the coal with high temperature and pressure, using boiler plant steam and measured amounts of oxygen. The final product (coal or natural gas) was sent by pipeline to local residences in Bremerton. This site also was utilized for petroleum storage and distribution from approximately 1963 to 1985. Petroleum products were stored in ASTs and distributed by underground pipeline or offloaded to vehicles. The records are not clear regarding how many of the underground fuel distribution lines were removed, if the distribution lines remain underground, or if product remains in the lines. Aerial photographs suggest that the former gasification physical plant, boiler, and ASTs apparently were removed between 1985 and 1993 (TechLaw 2006).

The McConkey properties cover approximately 3.13 acres (TechLaw 2006). These properties are operated by Trip McConkey as a mixed use commercial property and storage rental business (E & E 2007). They currently contain five separate buildings, which are leased to a metal fabrication shop, piston ring shop, granite countertop workshop, and a welding shop (TechLaw 2006). Past commercial uses include sheet metal fabrication, drum storage facilities, automotive and marine repair, metal salvage yard, painting/sandblasting activities, and petroleum bulk storage and distribution.

The Sesko property covers approximately 0.55 acres (TechLaw 2006). This property is owned by Natasha Sesko. It is currently vacant but appears to be used as temporary storage for heavy equipment. The only structures on this property are the former foundations of the AST farm (TechLaw 2006). The Sesko property was formerly utilized as a commercial AST and petroleum distribution facility (Techlaw 2006).

A bulk petroleum storage facility (ARCO, now owned by BP West Coast Products LLC) was previously located northwest of the McConkey properties. Currently, SC Fuels, a petroleum bulk storage facility, is located east of the Sesko property and Pennsylvania Avenue. Historical files for the SC Fuels facility indicate that petroleum releases have occurred (Ecology 2009).

2.2 Local Conditions

The nearest surface water to the subject property is the Washington Narrows, which is located 100 to 150 feet north of the site. The Washington Narrows is affected by tidal variation from Puget Sound.

Groundwater is located at depths ranging from 15 to 45 feet below ground surface (bgs). It is not clear if shallow groundwater at the site is influenced by tidal variations from the Washington Narrows. Groundwater follows a slight north-northwest gradient towards the Washington Narrows (Geoengineers 2007).

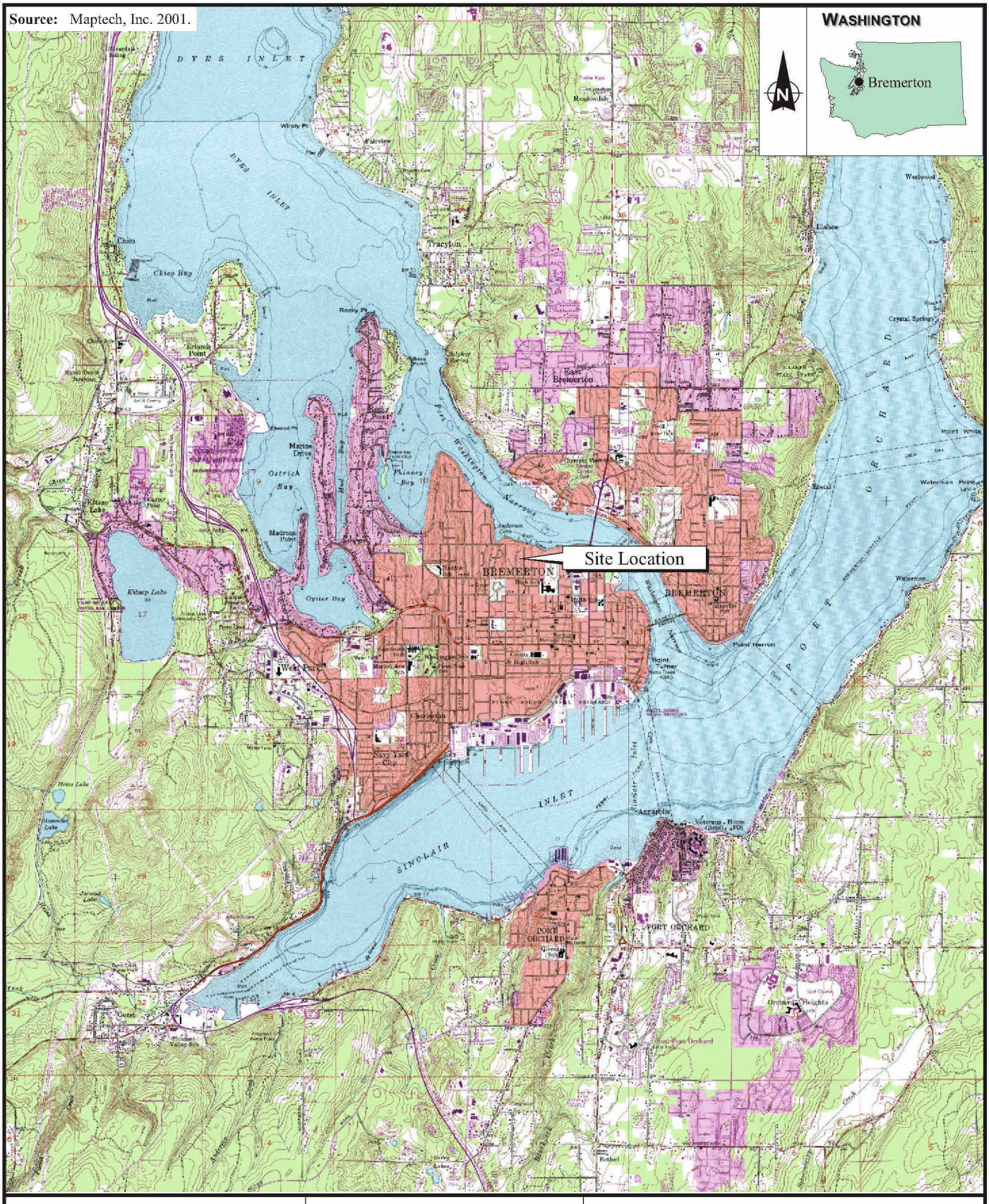
A drainage pipe was discovered down gradient from the Sesko property on the Washington Narrows beachfront (Appendix A; Photograph 0717). It is not clear where the pipe originated or what its intended use was.

2.3 Previous Investigations

In October 2006, the City of Bremerton received a Brownfields Assessment grant from EPA Region 10. This grant awarded $200,000 for additional site assessment work. The City of Bremerton proposed to redevelop a portion of the Bremerton Gasworks site as a public access marina.

The City of Bremerton contracted Geoengineers, Inc., to conduct subsurface soil sampling and monitoring well installation at eight locations. Monitoring well (MW)-1 through MW-8 were installed on May 21 through May 24, 2007. The soil borings and monitoring wells were advanced to depths ranging from 20 to 45 feet bgs. Soil samples were collected from the surface, at 5-foot intervals for each borehole. The samples were field screened for physical evidence of contamination and, based on visual observation, a minimum of two samples per borehole were submitted for laboratory analysis to TestAmerica Laboratories of Bothell, Washington. Samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline, TPH as diesel, TPH as heavy oils, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls, and Target Analyte List (TAL) metals. Groundwater was encountered at depths ranging from 15 to 35 feet bgs, utilizing low flow sampling techniques.

Geoengineers discovered contamination in subsurface soils and groundwater at the site that exceeded the 2007 Washington State Department of Ecology (Ecology) Model Toxics Control Act (MTCA) cleanup levels. Soils were impacted with VOCs, PAHs, TAL metals (including arsenic), and TPH as gasoline, diesel, and oil range hydrocarbons. These soil samples were contaminated from the soil surface downward to depths greater than 30 feet bgs. Levels of VOCs, PAHs, SVOCs, heavy metals, total chromium, hexavalent chromium, and arsenic found in the groundwater exceeded MTCA screening levels (Geoengineers 2007).



ecology and environment, inc. International Specialists in the Environment Seattle, Washington	BREMERTON GASWORKS TBA Bremerton, Washington	Figure 2-1 SITE VICINITY MAP		
	0 .5 1 Approximate Scale in Miles	Date: 11-25-08	Drawn by: AES	10:START-3\07010008\fig 2-1

Base Map Reference: TechLaw, Inc. 2006.

PORT WASHINGTON NARROWS
BEACH FRONT

Existing Tank Farm

Port Washington Marina Parking

Property Boundary

Miscellaneous Storage

Former Tank Farm

Vacant (former tank farm office)

Former Tank Farm

Pacific Coast Energy Office

Fuel Pipeline (approx. location)

Marguerite Ave.

Pacific Coast Energy Parking

Former Fuel Unloading Facilities

Parking & Driveway

Premier Propeller

B-6A

B-6B

B-3

Parking/Storage

Vacant

Residence

B-7

Thompson Drive

Pennsylvania Avenue

B-2

Residence

Parking/Storage

B-8

Residence

B-9

B-1

B-10

Parking/Storage

Residence

B-11

Parking

B-12

Vacant

Residence

Residence

Covered Boat Storage Facility (former concrete manufacturer)

Residence

N

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Seattle, Washington

BREMERTON GASWORKS
Bremerton, Washington

Figure 2-2
SITE MAP

0 50 100
Approximate Scale in Feet

Date: 1/26/09

Drawn by: AES

10:START-3\07010008\fig 2-2

3 Investigation and Results

E & E conducted a field sampling event at the Bremerton Gasworks site from May 12 through May 15 and on May 19 and June 4, 2008. Field work was conducted in cooperation with the City of Bremerton.

3.1 Sampling design

A judgmental sampling design was used for the Bremerton Gasworks TBA. This sampling design fulfills specific project objectives by collecting biased data required for preliminary site characterization. The following subsections describe the types of sampling, analysis, and measurements that were conducted. Samples were collected in accordance with an approved Sampling and Quality Assurance Plan (SQAP) (E & E 2008b). Deviations from the SQAP are described below, as well as in the Sample Plan Alteration Form provided in Appendix C.

Although general sample locations (i.e., features to sample) were selected prior to mobilization, the exact locations were selected once the field sampling crew was on site. Locations were selected to maximize the possibility of discovering areas of potential contamination. Photographic documentation of the samples, sampling locations, and site features are provided in Appendix A. A summary of sample coordinates obtained via GPS units with data loggers is provided in Appendix D.

To evaluate the presence or absence of contamination at various areas at the site, 65 samples were collected. These include QA/QC samples and waste profile samples collected from soil cuttings and well development wastewater. Sample locations are depicted in Figure 3-1.

The following areas were sampled:

- North McConkey property (26 samples from 4 locations),
- Sesko property (22 samples from 3 locations), and
- Washington Narrows beachfront (5 samples from 5 locations).

3.2 Sampling Methods

Subsurface soil samples were collected by driving a hollow-stem auger drill rig to the designated depth, then transferring the sample material into a dedicated stainless steel bowl using a dedicated stainless steel spoon. The sample material was thoroughly homogenized and placed in pre-labeled sample containers. The VOC aliquots were collected with Core-N-One soil samplers prior to sample homogenization.

The auger head was decontaminated between sample locations. Three rinsate samples (RS01WT, RS02WT, and RS03WT) were collected to ensure that decontaminated procedures were sufficient to meet the SQAP guidelines.

After sample collection, the drill borehole were either modified into a groundwater monitoring well or abandoned according to all applicable Washington State standards. Two monitoring wells (MP04 and SP02) were installed and developed for future groundwater monitoring. A copy of the borehole reports are provided in Appendix E.

Two monitoring wells were installed using a hollow-stem auger rig in accordance with the Washington State Department of Ecology Minimum Standards for Construction and Maintenance of Wells ([173-160 WAC)]. Well casings and screens were constructed of 2-inch diameter, schedule 40 PVC. Ten-foot long, 0.010-inch slotted pre-packed well screens were used during well installation. The wells were developed using a surge block and a submersible pump.

The two monitoring wells were sampled using a Grunfos submersible pump and low flow sampling techniques. Dedicated polyethylene tubing was used for each well, and a Horiba U-10 water quality meter was used to measure water quality parameters. Water quality parameters (i.e., pH, temperature, redox potential, dissolved oxygen, conductivity, and turbidity) were monitored and recorded during purging. Purging continued until water quality parameters stabilized, indicating that groundwater representative of the aquifer formation was present in the well. Stabilization requirements are three consecutive readings, taken at approximately 5-minute intervals, within the following criteria: pH (± 0.1 unit), specific conductance (± 3%), and Dissolved Oxygen (± 10%). Groundwater samples were then collected using a submersible Grunfos pump discharging directly into pre-labeled sample containers. Samples were preserved as required after sample collection, with the exception of the VOC aliquot, which was collected in pre-preserved sample containers.

All samples were submitted to an off-site fixed laboratory for VOC, SVOC, TAL Metals, TPH-Gx, and TPH-Dx analysis. QA/QC validation memoranda are provided in Appendix F. The following samples were submitted to a contract laboratory program (CLP) and EPA Manchester Environmental Laboratory for analysis as follows:

- **VOCs** - 65 samples, including QA/QC samples, were submitted for SVOC analysis using EPA Method SOM01.2. The samples were submitted to KAP Technologies Laboratory in The Woodlands, Texas, a CLP laboratory.
- **SVOCs** - 58 samples, including QA/QC samples, were submitted for SVOC analysis using EPA Method SOM01.2. The samples were submitted to KAP Technologies Laboratory in The Woodlands, Texas, a CLP laboratory.
- **TAL Metals** - 59 samples, including QA/QC samples, were submitted for TAL metals analysis using EPA Method ILM05.4. The samples were

submitted to Bonner Analytical Testing Company of Hattiesburg, Mississippi, a CLP laboratory.

- **TPH-Gx/Dx** - 59 samples, including QA/QC samples, were submitted for TPH analysis using EPA Method NWTPH-Gx/Dx. The samples were submitted to Manchester Environmental Laboratory of Manchester, Washington.

3.3 Regulatory Standards

Both the MTCA screening levels (Ecology 2008) and EPA Risk Based Regional Screening Levels (RSLs) (EPA 2009) were used to evaluate soil results for this TBA as conservative screening levels to assess whether contaminant concentrations pose a potential threat to human health and the environment under a variety of exposure conditions. RSLs are used preferentially for evaluation purposes to allow for maximum beneficial use of the site. Additionally, the EPA RSLs and Federal Maximum Contaminant levels (MCLs) are used to evaluate the groundwater encountered at the site. Finally, the newly promulgated Washington State Department of Ecology Marine Sediment Management Standards (SMS) are used to evaluate sediment samples collected from the Washington Narrows.

A description of the screening values and applicable use is included below. Available screening concentrations are presented in Tables B-1 (soil), B-2 (groundwater), and B-3 (sediment). The chosen screening concentration for each analyte is presented in the last column of these tables.

3.3.1 Washington State Department of Ecology Model Toxics Control Act

MTCA levels are determined according to three categories: Methods A, B, and C. Method A levels are generally the most conservative, may or may not be risk-based, and are intended for use at simple sites with limited numbers of contaminants. Method A values are available for residential soil and industrial soil uses. Method B levels are based on residential land use. Method B soil screening levels assume high frequency of contact in a residential setting. Method B screening levels account for exposure to children and correspond to a 1 in 1,000,000 excess lifetime cancer risk for carcinogens or a hazard quotient of 1 for noncarcinogens.

A hazard quotient is a ratio between the level to which someone may be exposed to a contaminant in the environment and a level deemed "safe" by regulatory agencies. This "safe" exposure level is usually referred to as a reference dose or reference concentration. Method C levels are based on commercial or industrial land use; therefore, soil screening levels are based on adult contact only. The risk levels for Method C are an excess lifetime cancer risk of 1 in 100,000 for carcinogens and a hazard quotient of 1 for noncarcinogens.

Under Washington State's MTCA (Washington Administrative Code [WAC] 173-340-708(8)(e)], mixtures of carcinogenic PAHs must be evaluated as a single hazardous substance by using the toxicity equivalency factor (TEF) methodology

(Ecology 2007). A TEF is an estimate of a chemical's toxicity relative to a reference chemical; benzo(a)pyrene is the reference chemical for carcinogenic PAHs. In this report, concentrations of carcinogenic PAHs were multiplied by chemical-specific TEFs, and then the products were summed to obtain a total equivalent concentration of benzo(a)pyrene, or benzo(a)pyrene equivalency (BAPE). This sum then was compared to the MTCA cleanup level for benzo(a)pyrene. TEFs for the seven PAHs classified as Group A (known human) or Group B (probable human) carcinogens by the EPA are provided by Ecology (Ecology 2007).

The planned end use for this site includes a public access marina, commercial businesses, and potential condominium housing. Therefore, MTCA Method A unrestricted values will be employed where they are available.

3.3.2 EPA Regional Risk-Based Screening Levels

The EPA's regional RSLs for residential soil supersede the EPA Region 3 RBC Table, Region 6 HHMSSL Table, and the Region 9 PRG Table. RSLs are calculated using up-to-date toxicity values, default exposure assumptions, and default physical and chemical parameters and are not intended to be used as cleanup levels. The RSLs represent reasonable maximum exposure conditions, as defined by EPA risk assessment guidance (EPA 1991) and soil screening level guidance (EPA 1996a, 1996b, 2002b), and assume a resident at the site contacts soil via incidental ingestion, direct dermal contact, and inhalation of wind-blown soil particulates. The RSLs are maintained by the United States Department of Energy's Oak Ridge National Laboratory and are updated as new toxicity values, chemical-specific parameters, and EPA guidance become available.

3.3.3 Groundwater Screening Concentrations

Groundwater screening levels in Appendix B Table B-2 include the MTCA Method A screening levels, Washington State and federal MCLs, and EPA RSLs for groundwater. All groundwater values presented in Table B-2 assume that groundwater is currently used as drinking water or could reasonably be used as a drinking water source in the future. The MTCA Method A groundwater screening standards were established under WAC 173-340-740 (2). Under chapter 246-290-310 WAC, Washington State has identified MCLs for chemicals in drinking water. Washington State MCLs consist of primary and secondary chemical and physical parameters and are intended to ensure safe public drinking water resources. State MCLs are at least as stringent as federal drinking water standards, or MCLs, that are part of the Safe Drinking Water Act. Like state MCLs, federal MCLs are legally enforceable standards applicable to public water systems. Primary standards establish limits for chemical contaminants in drinking water and are based on protection of public health or limitations of treatment technologies. Secondary standards are non-enforceable guidelines pertaining to cosmetic or aesthetic parameters (e.g., color, taste, and odor). Table B-2 lists both state and federal MCLs for target analytes relevant to this site.

The EPA's RSLs for tap water are protective of exposures via direct ingestion of tap water and inhalation of volatile chemicals present in tap water. The RSLs are

not protective of exposure to chemicals through dermal contact with water. As with the soil RSLs, the EPA RSLs for tap water are managed by the United States Department of Energy's Oak Ridge National Laboratory and are updated as new toxicity values, chemical-specific parameters, and EPA guidance become available. These tap water standards were utilized when no applicable MTCA, state, or federal MCLs were available. They should be applied if groundwater is utilized as a drinking water source. They should not be considered applicable as a cleanup screening value.

3.3.4 Washington State Marine Sediment Management Standards

SMSs are provided under Chapter 173-204 of the WAC. These standards are intended to reduce adverse effects on biological resources resulting from contaminated sediments. The sediment quality standards (SQS) included in the SMS provide chemical concentration criteria used to identify levels of sediments below which adverse acute or chronic effects on biological resources are not expected to occur.

Table B-3 of this report lists the target analytes, as provided in Table I under chapter 173-204-320 WAC. The SQS values in Table I of the WAC are "normalized" on a total organic carbon (TOC) basis for non-ionic organic compounds such as PAHs, chlorinated benzenes, phthalates, and PCBs, and on a dry weight basis for compounds such as metals and phenols.

To normalize to TOC, the dry weight concentration of a chemical of concern is divided by the fraction representing the percentage of TOC present in the sediment, then adjusted to parts per million. Normalization of compounds such as metals and phenols is unnecessary because laboratory data are provided on a dry weight basis. The TOC content in sediment at the Bremerton Gasworks site was not measured as part of the study; therefore, the concentration of the chemicals of concern at these stations could not be directly compared to the Washington State SQS.

3.3.5 National Oceanic and Atmospheric Administration Screening Quick Reference Tables

The National Oceanic and Atmospheric Administration (NOAA) provides screening levels for chemicals in freshwater and marine sediments, surface water, and surface soil. These values are listed in the Screening Quick Reference Tables (SQuiRT) (Buchman 2008). The SQuiRTs include multiple chemical-specific screening values based on a variety of test methods, target species, and biological endpoints. The tables are intended for screening purposes only and are not to be used as cleanup values. Table B-3 lists apparent effects thresholds (AETs) listed in the SQuiRTs, which are benchmarks based on the relationship between chemical concentrations in sediment and adverse effects observed in benthic communities or toxicity tests. The AET represents the highest observed concentration that does not result in an adverse effect.

3.4 Sampling Results

Sample results are presented in Appendix B. Subsurface soil sample results are presented by depth from the borehole auger in Tables B-4 through B-12. Groundwater sample results are presented in Table B-13. Finally, sediment sample results are presented in Table B-14. Maps depicting concentrations of analytes that exceed their analyte-specific screening criteria are presented in Figures 3-2 through Figure 3-12. The maps are organized by sample depth for subsurface soil samples and by matrix for groundwater and sediment samples. The analyte-specific screening value is presented in the first column of each table for comparison purposes. Data validation memoranda are provided in Appendix F. Analytical results were evaluated according to the following steps prior to being reported in the tables:

- Analytes that were not detected in any samples within a table were omitted from their respective tables;
- All detected concentrations are shown in bold type; a nondetected concentration is shown as the detection limit reported by the laboratory (i.e., 0.66 U);
- Analytes detected at concentrations greater than the analyte-specific screening value were considered a potential concern, and the concentration is shaded; and
- Analytes without comparative criteria levels are listed in the tables but could not be qualitatively evaluated.

Based on EPA Region 10 policy, evaluation of aluminum, calcium, iron, magnesium, potassium, and sodium (i.e., common earth crust metals) is generally used only in mass tracing, which is beyond the scope of this report. Furthermore, these analytes are not associated with toxicity to humans under normal circumstances (EPA 1996a). For these reasons, these analytes are not included in the evaluation or discussion but are provided in the analytical summary tables.

Alphanumeric identification numbers applied by the START to each sample location (e.g., MP01) are used in the report as the sample location identifiers.

3.4.1 North McConkey Property

The North McConkey property was the former location of the gasworks boilers and associated buildings. Four borehole locations (MP01 through MP04) and one monitoring well (MP04) were installed on the North McConkey property. Samples were collected at 5-foot intervals from ground surface to a total maximum depth of 40 feet bgs. A total of 23 soil samples and three groundwater samples were collected.

Subsurface soil sample results are presented by sampling interval in Appendix B, Tables B-4 through B-12. Sample results indicate the presence of arsenic at concentrations that exceed the MTCA Method A screening criteria of 0.39 milligrams per kilogram (mg/kg) in all samples at all depths. The natural background soil concentration for arsenic ranges between 1.1 and 7.5 mg/kg

(ATSDR 2005). Based on the natural background soil concentration, it appears that the levels of arsenic found in the site soils may be naturally occurring, even though they are above the MTCA Method A screening criteria. A total of seven SVOCs have been detected at concentrations that exceeded their analyte-specific screening criteria. Additionally, these SVOCs were only detected in samples collected from the 0 to 5 feet bgs interval. No VOCs or TPH were detected in the samples at concentrations that exceeded their screening criteria.

Groundwater sample results are presented in Appendix B, Table B-13. Sample results indicate the presence of four TAL metals at concentrations that exceeded their analyte-specific screening criteria. Of these TAL metals, arsenic, chromium, and lead were detected at concentrations that exceeded their screening criteria in all of the groundwater samples. Benzene ranged from 5.4 µg/L to70 µg/L in two samples, which exceeded the 0.41 µg/L EPA RSL screening criteria, and naphthalene ranged from 0.45 µg/L to 2.3 µg/L in two samples, which exceeded the 0.14 µg/L EPA RSL screening criteria. Ethylbenzene was detected in one sample at concentrations that exceeded its analyte-specific screening criteria. No SVOC analytes were detected at concentrations that exceeded their analyte-specific screening criteria.

3.4.2 Sesko Property

The Sesko property was the former location of multiple petroleum ASTs. Three borehole locations (SP01 through SP03) and one monitoring well (SP02) were installed on the Sesko property. Samples were collected at 5-foot intervals from ground surface to a total maximum depth of 45 feet bgs. A total of 19 soil samples and three groundwater samples were collected.

Sample results are presented by sampling interval in Appendix B, Tables B-4 though B-12. Sample results indicate the presence of arsenic at concentrations that exceed the MTCA Method A screening criteria of 0.39 mg/kg in nearly all samples, except SP02 at 15 feet bgs. The natural background soil concentration for arsenic ranges between 1.1 and 7.5 mg/kg (ATSDR 2005). Thallium also was detected at concentrations that exceeded the EPA RSL screening criteria at borehole SP03 at 20, 30, and 35 feet bgs. Sample results also indicate the presence of nine SVOCs, three VOCs, and two TPHs at concentrations that exceeded the MTCA Method A or EPA RSL screening criteria at sample borehole SP03. Benzene was detected at concentrations that exceeded Method A screening criteria of 30 µg/kg at most sample depths at this borehole.

Groundwater sample results are presented in Appendix B, Table B-13. Sample results indicated the presence of four TAL metals at concentrations that exceeded their analyte-specific screening criteria. Arsenic was the only analyte detected above the analyte-specific screening criteria in all three of the groundwater samples. A total of seven SVOCs were detected at concentrations that exceeded their analyte-specific screening criteria. Groundwater collected at sample location SP02GW did not contain any SVOCs that exceeded their screening criteria. Diesel Range Organics and two VOCs were detected above their

screening criteria in sample SP03GW. No VOCs were detected above their screening criteria in samples SP01GW or SP02GW.

3.4.3 Washington Narrows

The Washington Narrows beachfront is located directly adjacent to the North McConkey and Sesko properties. Five boreholes (WN01SD throughWN05SD) were hand-augered up to a depth of 30 centimeters bgs with dedicated stainless steel split-spoon samplers. Samples were collected during low tide. Sample results are presented in Appendix B, Table B-14. Several product seeps were noted near sample locations WN01SD, WN02SD, and WN03SD. Many SVOCs were prevalent at levels that exceeded their analyte-specific screening criteria at WN01SD, WN02SD, WN03SD, and WN04SD. Only pentachlorophenol was detected above the analyte-specific screening criteria for WN05SD. No TAL metals, VOCs, or TPH range analytes were detected above their analyte-specific screening criteria in any sediment samples.

Legend:

Site Boundary

Sampling Location

0 35 70

Approximate Scale in Feet

N

MP03

MP02

MP01

MP04

WELDING SHOP

NORTH McCONKEY PROPERTY

GRANITE COUNTERTOP WORKSHOP

FORMER GASWORKS GAS HOLDER COLUMN

BLUFF DOWN TO SHORELINE

SHORELINE

WN05

WN04

WN03

WN02

WN01

SP01

FORMER BULK FUEL FACILITY

SESKO PROPERTY

FORMER UST

SP03

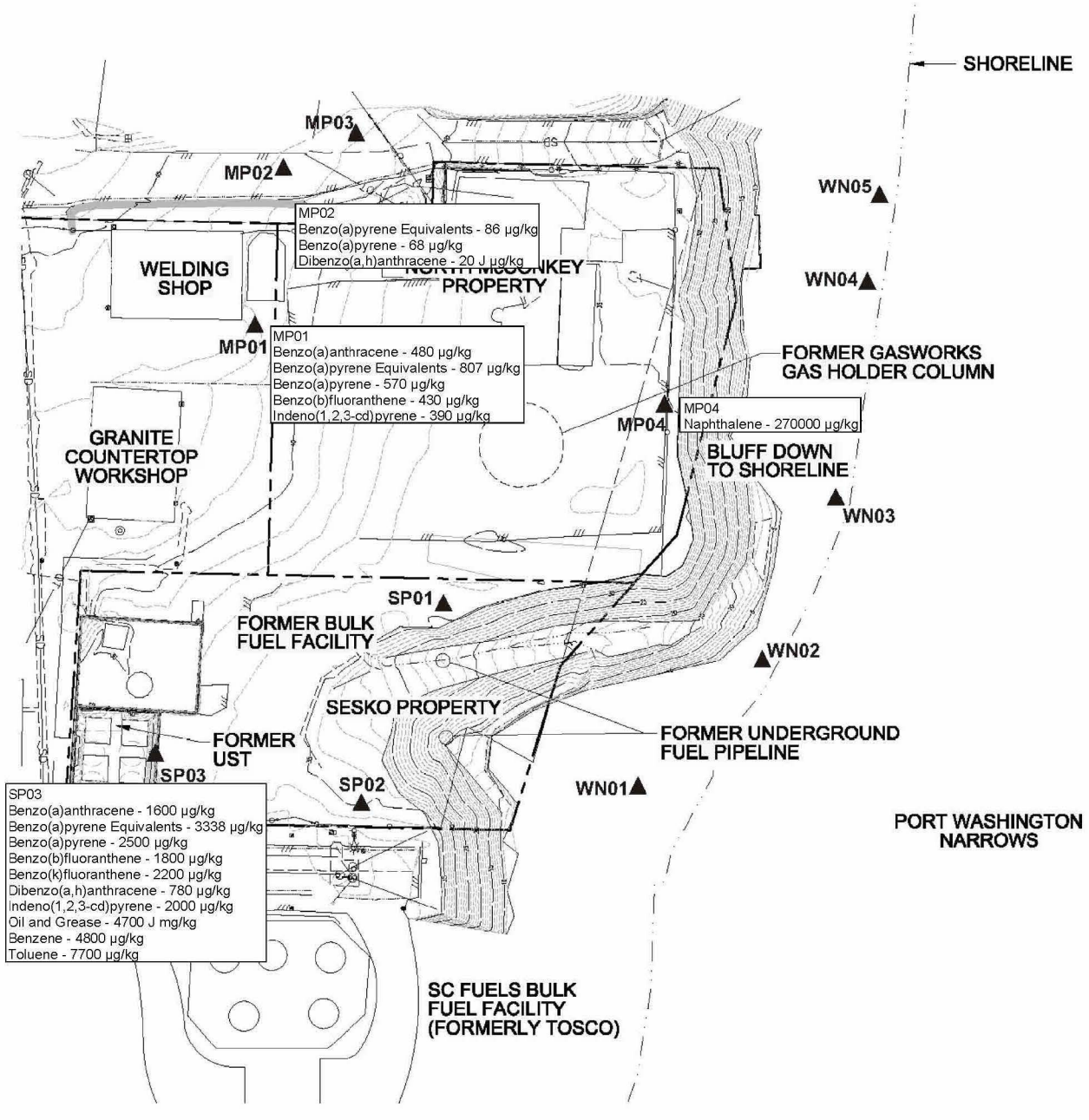
SP02

FORMER UNDERGROUND FUEL PIPELINE

PORT WASHINGTON NARROWS

SC FUELS BULK FUEL FACILITY (FORMERLY TOSCO)

ecology and environment, inc. International Specialists in the Environment Seattle, Washington	BREMERTON GASWORKS TBA Bremerton, Washington	Figure 3-1 SAMPLING LOCATIONS		
	Base Map Reference: GeoEngineers 2007.	Date: 1/26/09	Drawn by: AES	10:START-3\07010008\fig 3-1



Key	
µg/kg	Microgram per kilogram
µg/L	Microgram per liter
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
J	The result is an estimated value

NOT TO SCALE

ecology and environment, inc.
International Specialists in the Environment
Seattle, Washington

BREMERTON GAS WORKS TBA

Bremerton, Washington

Figure 3-2
Subsurface Soil Contaminant (0-5 bgs) Concentration Map

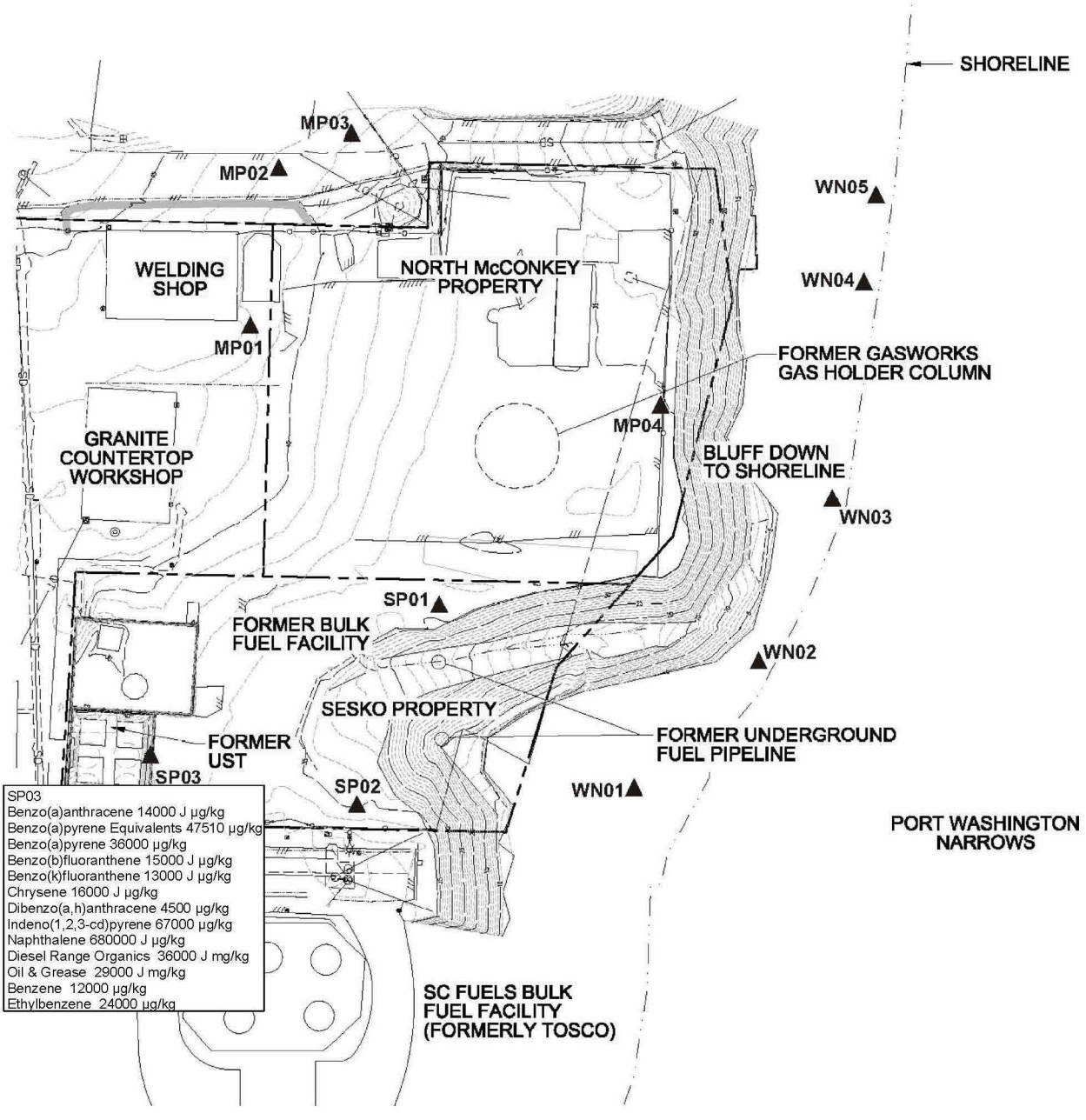
Job Id: 002233.0178.01BR

Date: 3/26/2009

GIS Analyst: avh

Map Source Information:

\edms-projects\Bremerton Gasworks\fig 0-5 bgs_new.mxd



Key	
µg/kg	Microgram per kilogram
µg/L	Microgram per liter
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
J	The result is an estimated value

NOT TO SCALE

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Seattle, Washington

BREMERTON GAS WORKS TBA

Bremerton, Washington

Figure 3-3
Subsurface Soil Contaminant (5-10 Bgs) Concentration Map

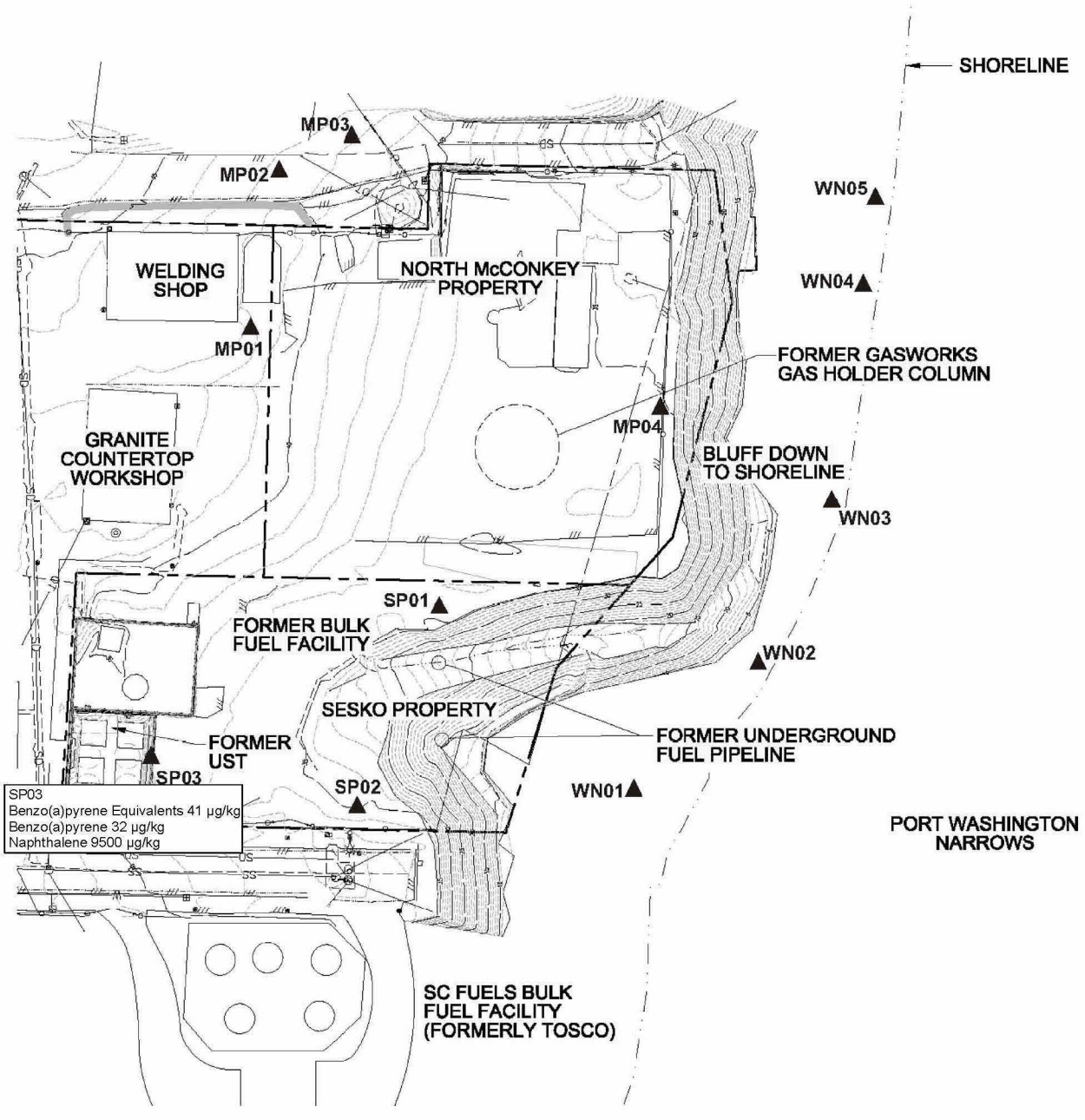
Job Id: 002233.0178.01BR

Date: 3/26/2009

GIS Analyst: avh

Map Source Information:

\\edms-projects\Bremerton Gasworks\fig 5-10 bgs_new.mxd



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Portland, Oregon

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Bremerton, Washington

Figure 3-4
Subsurface Soil Contaminant (10-15 Bgs) Concentration Map

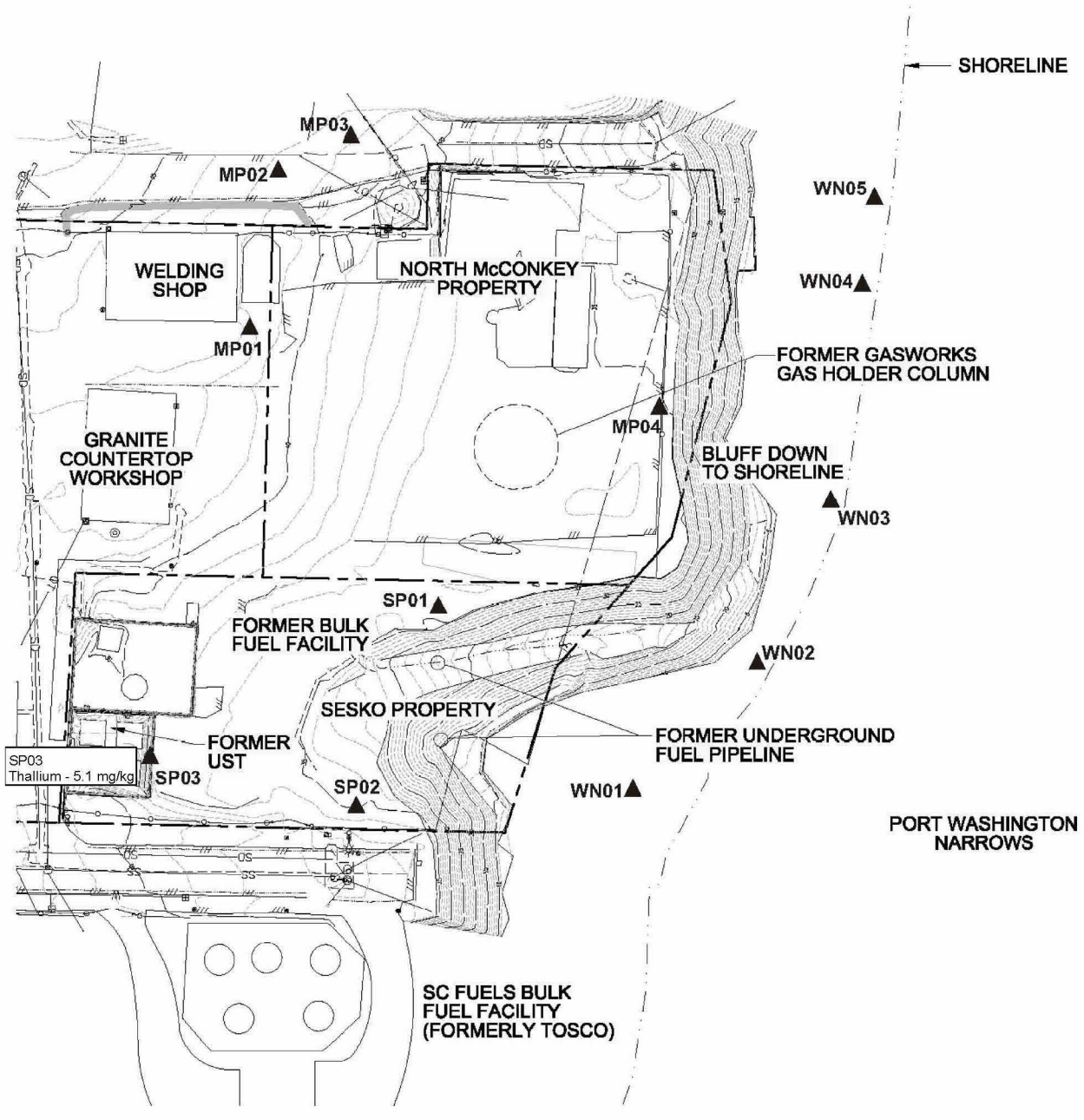
Job Id: 002233.0178.01BR

Date: 3/26/2009

GIS Analyst: avh

Map Source Information:

\edms-projects\Bremerton Gasworks\fig 10-15 bgs_new.mxd



Key	
µg/kg	Microgram per kilogram
µg/L	Microgram per liter
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
J	The result is an estimated value

NOT TO SCALE

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Seattle, Washington

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Bremerton, Washington

Figure 3-5
Subsurface Soil Contaminant (15-20 Bgs) Concentration Map

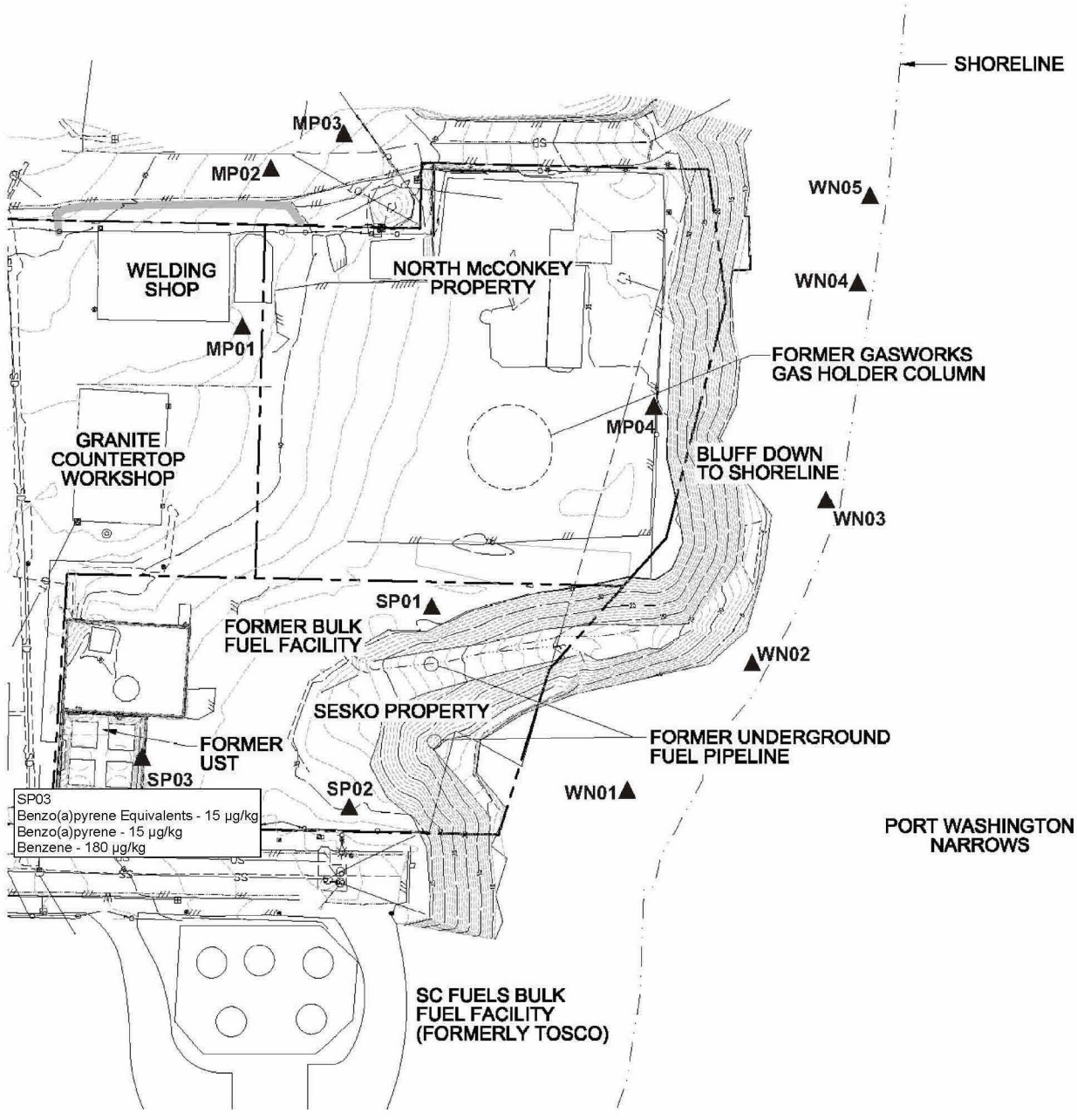
Job Id: 002233.0178.01BR

Date: 3/26/2009

GIS Analyst: avh

Map Source Information:

\edms-projects\Bremerton Gasworks\fig 15-20 bgs_new.mxd



Key	
µg/kg	Microgram per kilogram
µg/L	Microgram per liter
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
J	The result is an estimated value

NOT TO SCALE

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Bremerton, Washington

Figure 3-6
Subsurface Soil Contaminant (20-25 Bgs) Concentration Map

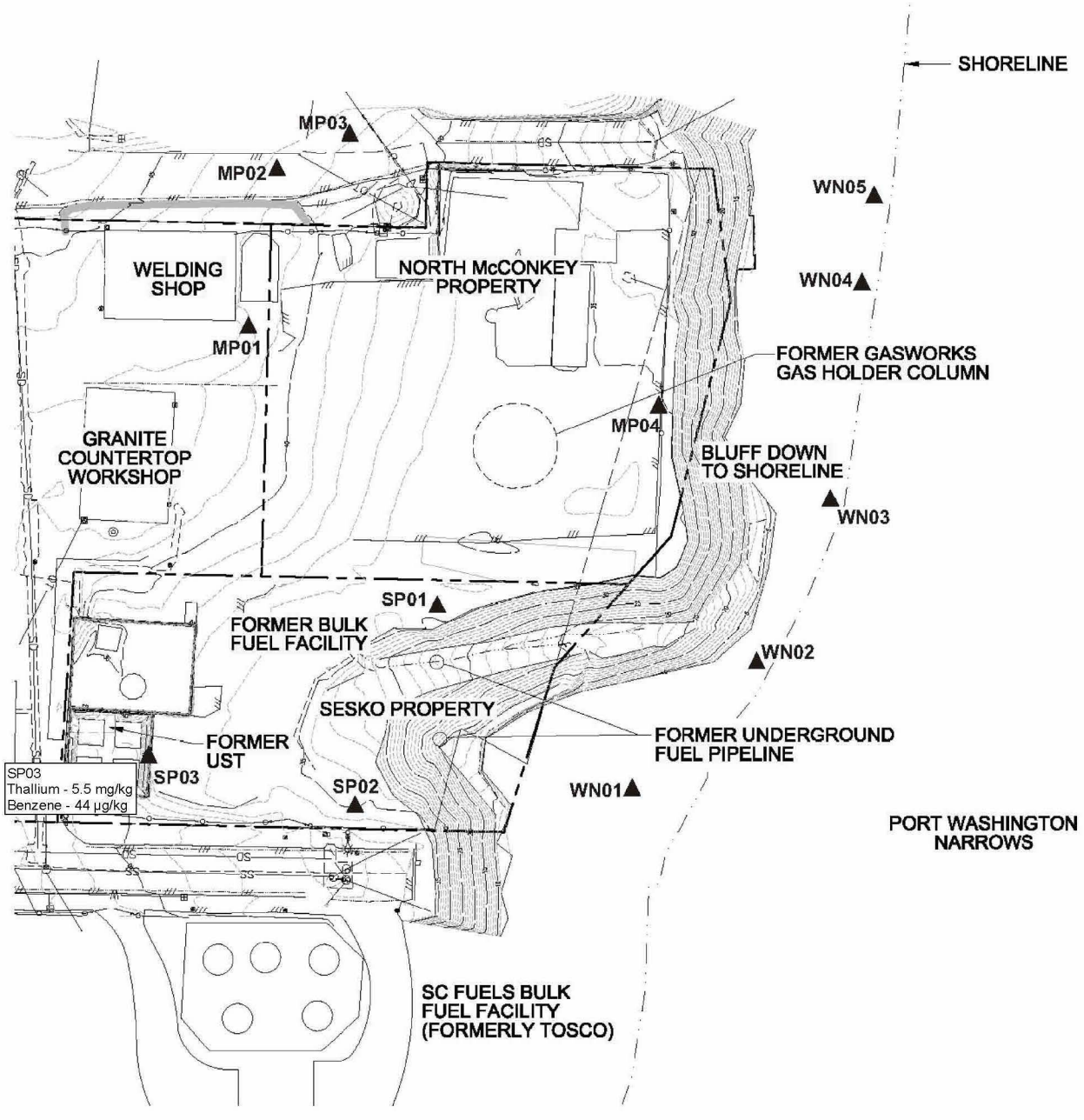
Job Id: 002233.0178.01BR

Date: 3/26/2009

GIS Analyst: avh

Map Source Information:

\edms-projects\Bremerton Gasworks\fig 20-25 bgs_new.mxd



Key	
µg/kg	Microgram per kilogram
µg/L	Microgram per liter
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
J	The result is an estimated value

NOT TO SCALE

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Bremerton, Washington

Figure 3-7
Subsurface Soil Contaminant (25-30 Bgs) Concentration Map

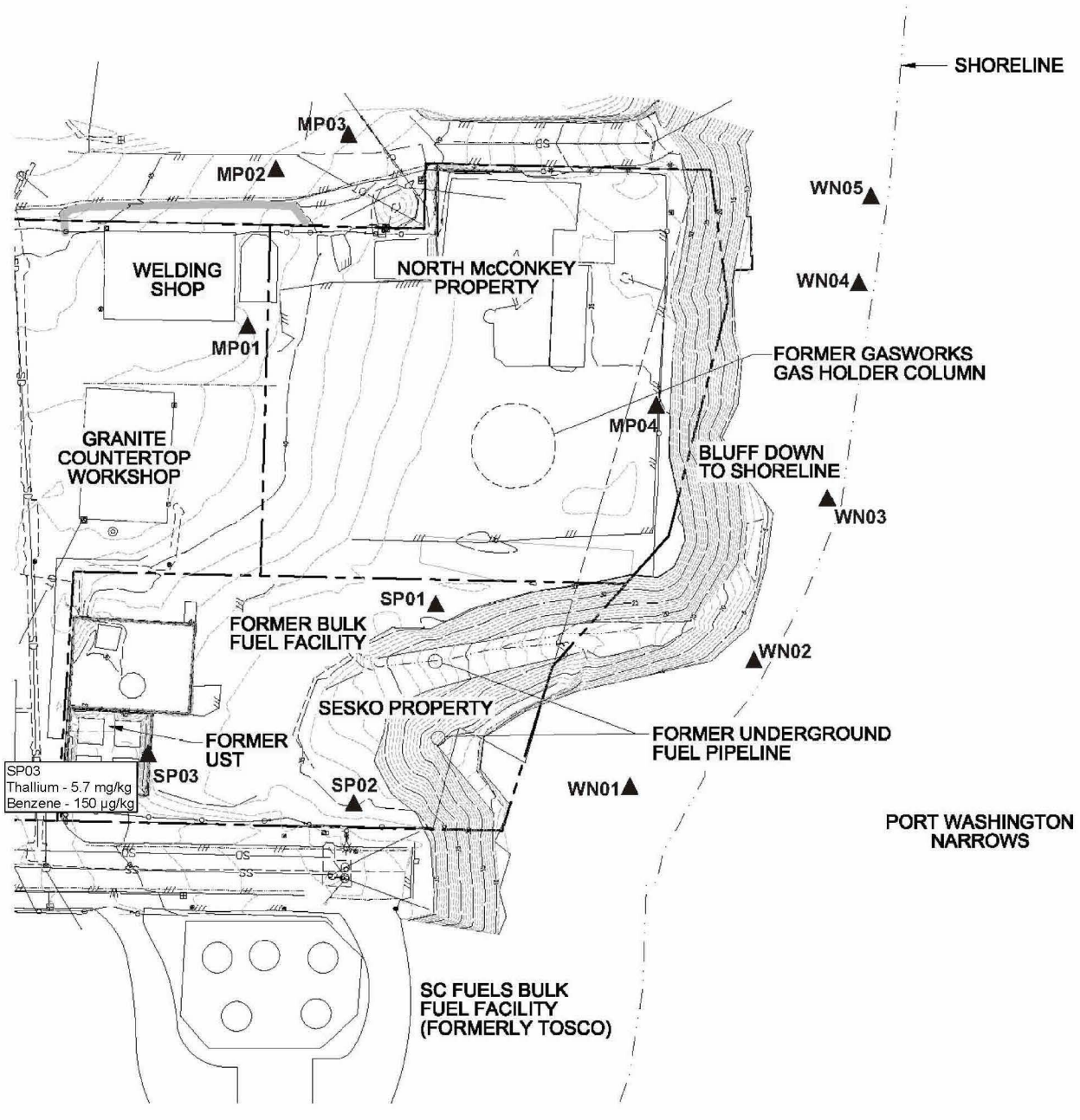
Job Id: 002233.0178.01BR

Date: 3/26/2009

GIS Analyst: avh

Map Source Information:

\edms-projects\Bremerton Gasworks\fig 25-30 bgs_new.mxd



Key	
µg/kg	Microgram per kilogram
µg/L	Microgram per liter
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
J	The result is an estimated value

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Bremerton, Washington

Figure 3-8
Subsurface Soil Contaminant (30-35 Bgs) Concentration Map

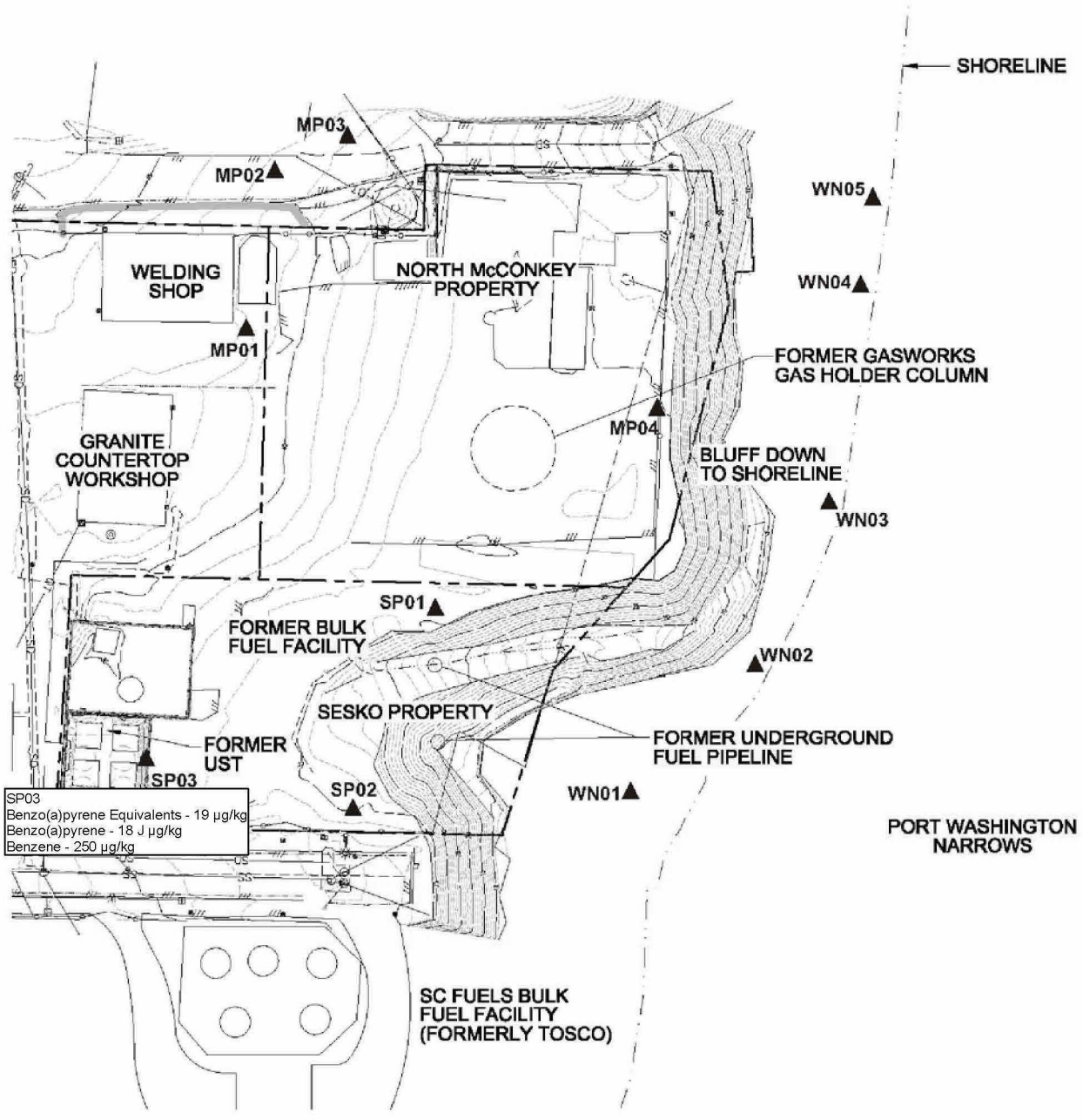
Job Id: 002233.0178.01BR

Date: 3/26/2009

GIS Analyst: avh

Map Source Information:

\edms-projects\Bremerton Gasworks\fig 30-35 bgs_new.mxd



Key	
µg/kg	Microgram per kilogram
µg/L	Microgram per liter
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
J	The result is an estimated value

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Bremerton, Washington

Figure 3-9
Subsurface Soil Contaminant (35-40 bgs) Concentration Map

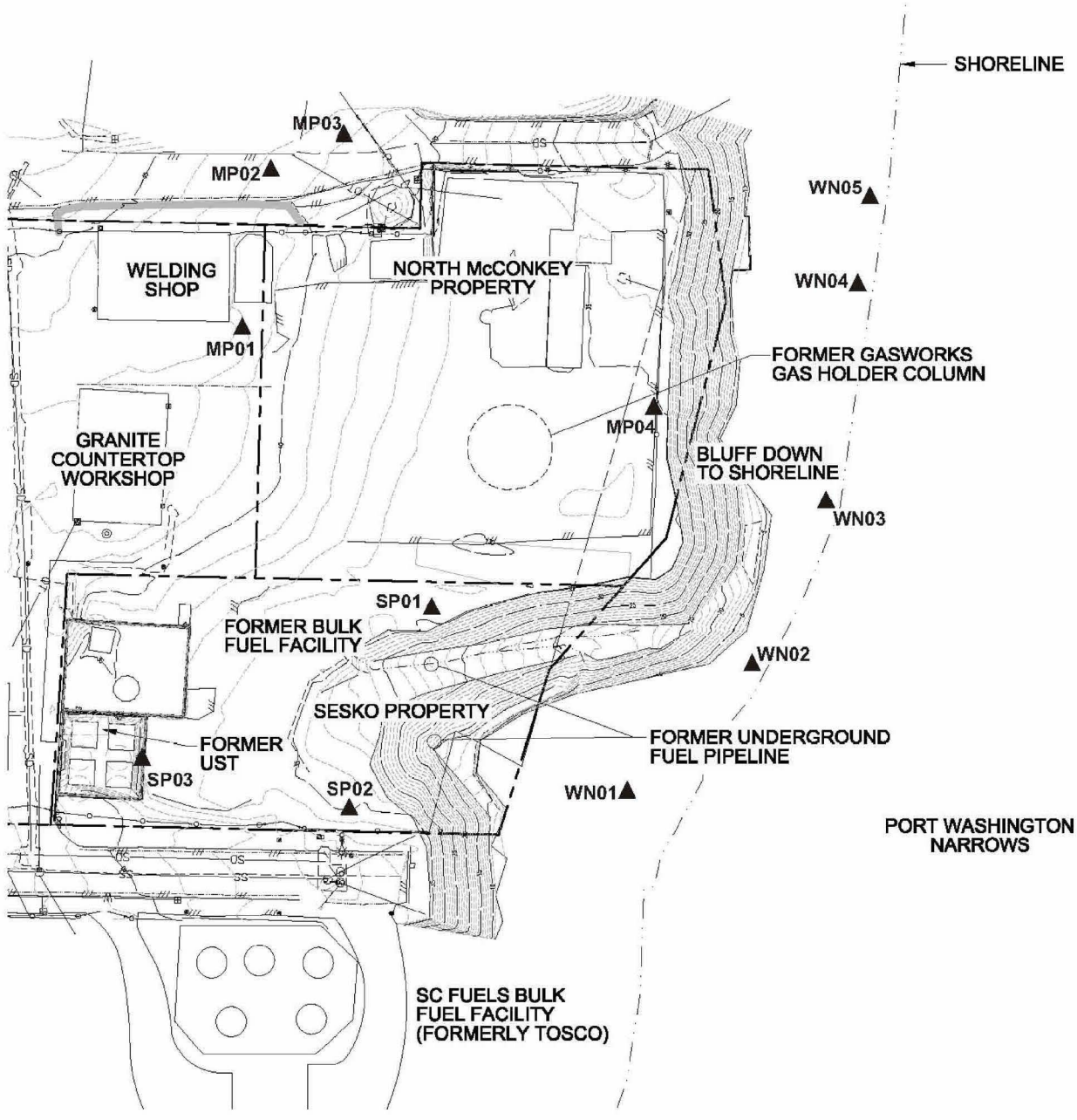
Job Id: 002233.0178.01BR

Date: 3/26/2009

GIS Analyst: avh

Map Source Information:

\edms-projects\Bremerton Gasworks\fig 35-40 bgs_new.mxd



Key	
µg/kg	Microgram per kilogram
µg/L	Microgram per liter
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
J	The result is an estimated value

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Bremerton, Washington

Figure 3-10
Subsurface Soil Contaminant (40-45 Bgs) Concentration Map

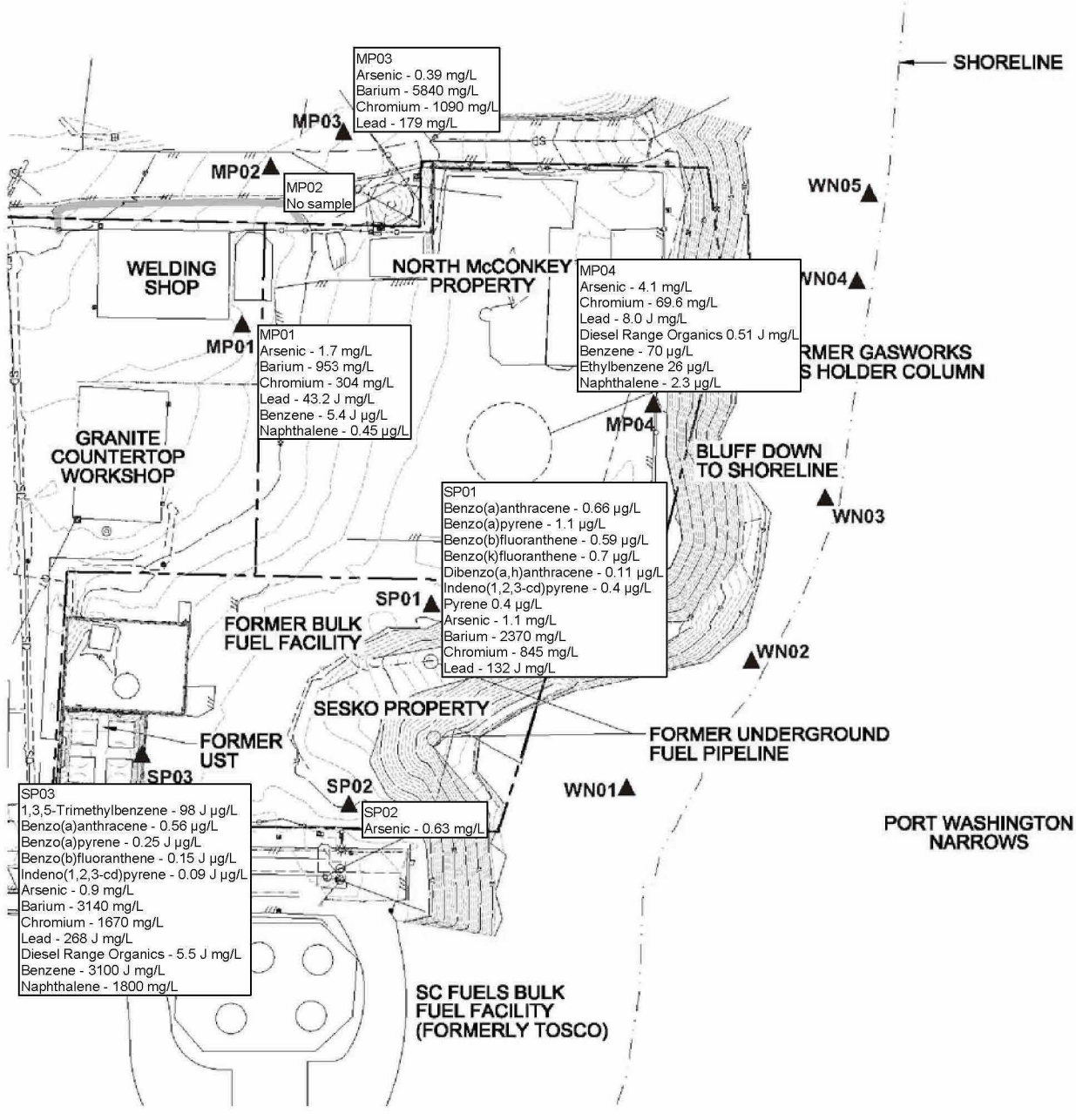
Job Id: 002233.0178.01BR

Date: 3/26/2009

GIS Analyst: avh

Map Source Information:

\edms-projects\Bremerton Gasworks\fig 40-45 bgs_new.mxd



Key	
µg/kg	Microgram per kilogram
µg/L	Microgram per liter
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
J	The result is an estimated value

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Bremerton, Washington

Figure 3-11
Groundwater Contaminant Concentration Map

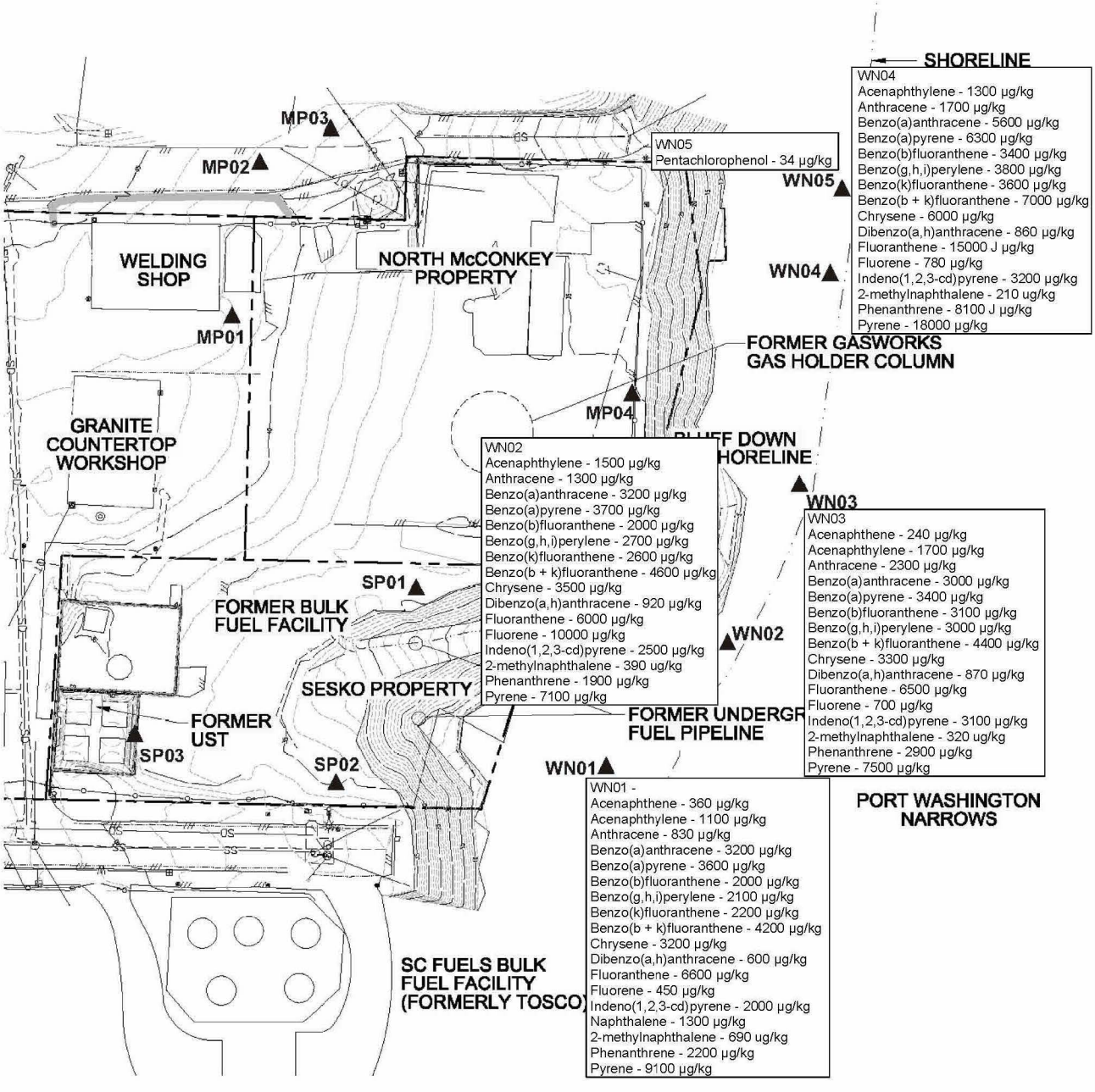
Job Id: 002233.0178.01BR

Date: 3/24/2009

GIS Analyst: avh

Map Source Information:

\edms-projects\bremerton gasworks\fig 3-11_ groundwater.mxd



Key	
µg/kg	Microgram per kilogram
µg/L	Microgram per liter
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
J	The result is an estimated value

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BREMERTON GAS WORKS TBA

Bremerton, Washington

Figure 3-12
Sediment Contaminant Concentration Map

Job Id: 002233.0178.01BR

Date: 3/24/2009

GIS Analyst: avh

Map Source Information:

\edms-projects\bremerton gasworks\fig 3-12 sediment.mxd

4 Cleanup Options and Cost Estimate

The preliminary investigation conducted during this TBA indicates that cleanup actions may be required at the Bremerton Gasworks site. The following preliminary evaluation of site cleanup options is based on the analytical data gathered during the investigation for the TBA. Before any cleanup action is implemented, further assessment of the site is recommended to close any data gaps in support of an effective remedial action design. Changes in site conditions would require a reevaluation of the following discussion. The cleanup actions and rationale are presented in Tables 4-1 and 4-2. It is recommended that the Ecology Voluntary Cleanup Program (VCP) be consulted prior to conducting any cleanup activities. It is also recommended that future investigations include the collection of surface water samples from Washington Narrows.

This TBA focused on VOC, SVOC, TAL Metals, and TPH-series compounds as the contaminants of concern in all locations. The decision to focus on these contaminants was based on information available and best professional judgment. Given this limitation, it is possible that other contaminants could also be presenting levels that exceed MTCA Method A or EPA RSLs.

The cost estimates included in this section were created by utilizing Remedial Action Cost Engineering and Requirements (RACER®) 2008. RACER® 2008 is a cost estimating computer program that was originally developed for the United States Air Force in 1992 and has since been utilized to meet the needs of various federal agencies and departments, including the United States Army Corp of Engineers and EPA. RACER® 2008 runs on a Microsoft Access platform.

The cleanup options and rationale are presented in Table 4-1. The estimated costs associated with each option are presented in Table 4-2. The inflation mark up from 2008 dollars to 2009 dollars was estimated using the RS Means Historical Cost Indexes. These indexes estimate the national average cost to construct a given project in a given year so that years can be compared side by side. In this case, the national average cost to construct a project in the year 2008 was compared to the national average cost to construct a project in 2009. Based on these indexes, the inflation mark up from 2008 to 2009 was estimated to be 3%. The cleanup option costs are also expressed in terms of present dollars. Because some cost items, such as monitoring, are incurred over a period of time, however, the actual costs may vary from the costs in this analysis.

For the preliminary cost estimate, the quantities of various input parameters (e.g., volume of contaminated soil, number of monitoring wells necessary, etc.) are roughly estimated based on site observations and best engineering judgment. Any new or differing discoveries will most likely affect the estimated costs projected herein.

The cleanup options are presented in order of least to most aggressive in approach. Cleanup options and associated prices are listed below. These estimates include a 15 percent contingency to allow for unforeseen costs. They do not, however, include additional study/investigation, design, long-term monitoring (beyond 5 years), 5-year reviews, site closeout, or other activities. A comprehensive estimate for each option is included in Appendix G.

Option 1

The first cleanup option includes excavation of contaminated soil "hot spots" and installation of an additional four monitoring wells to determine whether groundwater contamination is migrating and, if so, in which direction. The scope of this option is limited to installing monitoring wells, collecting the initial subsurface soil samples, and monitoring groundwater for one year.

Excavation of contaminated soil is recommended at the "hot spots" found at SP03 and MP04. The excavations are anticipated to be 25 by 25 feet to an average depth of 12.5 feet bgs and will contain approximately 600 cubic yards of contaminated soil. For disposal purposes, the contaminated soil is assumed to be hazardous waste. The excavation will be backfilled with clean soil.

Monitoring wells are intended for initial soil and quarterly groundwater sample collection only and not for groundwater treatment. This includes the installation of four 2-inch diameter PVC groundwater monitoring wells (well depth 45 feet bgs) in addition to the existing monitoring wells. Groundwater samples collected from the new wells will help determine whether contamination is migrating in groundwater. This option includes collection of soil samples during installation of the monitoring wells for vertical and horizontal subsurface characterization.

Once the four wells are installed and developed according to standard procedures, a groundwater sample plus a field duplicate will be collected for analysis. Groundwater sampling will be repeated quarterly for three additional quarters (i.e., for one full year). Additional monitoring (with associated sampling costs) may be necessary if the groundwater condition does not meet regulatory standards after the one-year period. Additional monitoring can be conducted to determine whether natural attenuation is occurring, or in conjunction with additional treatment. Such additional monitoring is subject to applicable cleanup regulations under Ecology's authority.

Subsurface soil and groundwater samples will be handled appropriately and sent to a commercial laboratory for analysis. Additional long-term groundwater monitoring is not included with this option. The estimated cost to complete remediation Option 1 is $338,984 (Table 4-2).

Option 2
The second cleanup option includes the installation of four monitoring wells and excavation of contaminated soil "hot spots" (as described in Option 1) with the addition of installation of a groundwater pump and treat system.

The groundwater pump and treat system will use carbon absorption to remove the contaminant. Treated water will be discharged to a publically owned treatment works. This system is estimated to operate at a maximum rate of 9 gallons per minute. This option includes installation of four extraction wells in addition to the four monitoring wells. Monitoring well samples will be collected quarterly for five years to monitor the groundwater condition. The treated effluent condition will be sampled monthly for five years. The cost also includes regular maintenance and change out of the carbon adsorption unit. Additional monitoring (with associated sampling costs) may be necessary if the groundwater condition does not meet regulatory standards at the end of the proposed five-year monitoring period. Such additional monitoring is subject to applicable cleanup regulations under Ecology's authority. The estimated cost to complete remediation Option 2 is $ 973,331 (Table 4-2).

Option 3 –
The third cleanup option includes Option 2 plus the dredging and disposal of sediments, installation of an upland barrier wall, and installation of an upland asphalt cap.

Nearshore dredging of the Washington Narrows beachfront will require barge-based excavation equipment. Dredging best practices will require bathymetric surveying, deployment of sediment booms, silt curtains, and sediment dewatering. The dredging area is located north of the Sesko property on the Washington Narrows. The dredging excavation is anticipated to be 50 by 350 feet at a depth of 4 feet, or approximately 2,600 cubic yards for off-site disposal at a non-hazardous waste facility.

A soil-bentonite upland barrier wall will prevent upland contamination from migrating to the Washington Narrows beachfront. A soil bentonite barrier wall is constructed via an excavated slurry trench, pouring liquid bentonite and mixing in clean fill soil. This type of barrier wall was installed at the McCormick and Baxter Superfund site in Portland, Oregon. The soil bentonite wall was selected due to its lower cost compared to sheet piling and its effective use in a marine environment (E & E 2004).

Installation of an asphalt surface cap includes a high density polyethylene geomembrane. This will prevent surface water runoff from coming into contact with contaminated site soils, potentially carrying contaminants to the groundwater and Washington Narrows. The high density polyethylene geomembrane will be layered with a drainage layer on top, overlain by the asphalt surface. This will allow any stormwater infiltrating the asphalt to flow downgradient without

entering the vadose zone. The estimated cost to complete remediation Option 3 is $2,867,432 (Table 4-2).

Qualifiers Relating to Clean Up Options

Based on the limited information acquired during the investigation, several assumptions were used to determine the cost estimates. All site work will be conducted in Level D personal protective equipment (coveralls, hard hats, safety glasses, steel-toe safety boots, and reflective vests). For disposal purposes, excavated "hot spot" soil materials are assumed to be "hazardous" materials. Dredged sediments are assumed to be "non-hazardous" materials as per state and federal disposal regulations. Additional costs to sample previously installed monitoring wells are not included in the estimates. All estimates are based on 2009 dollars.

Table 4-1 Cleanup Estimate Option and Rationale

Cleanup Action	Rationale
Option 1 - Excavation of contaminated soil and monitoring well installation	Lowest cost option: removing contaminated soil and collection of additional data for future remediation decision making purposes.
Option 2 - Excavation of contaminated soil and installation of a pump and treat groundwater system	Mid-range cost option: collecting additional data, removing contaminated soil, and treating groundwater. This option immediately addresses upland contamination.
Option 3 - Dredging of shoreline sediments, installation of an upland barrier wall, and installation of an upland asphalt cap.	High range cost, the most comprehensive option: addresses removal of contaminated soils, sediments, and groundwater. This option also prevents residual contamination from migrating into the lowland sediments.

Table 4-2 Preliminary Cost Estimate for Cleanup Action

Remediation Options	Description	Estimated Cost
Option 1	**Excavation of hot spot contaminated soil and monitoring well installation**	
	Soil Excavation and Off-Site Disposal (hazardous waste) - assumes excavation of 2 upland hot spots (600 cubic yards total); offsite disposal at hazardous waste facility; backfilling; decontamination facilities; analytical testing	$183,466
	Monitoring Well Installation - Install 4 monitoring wells to 45' bgs (includes initial subsurface soil sampling/analysis, and one year of groundwater monitoring)	$102,582
	Subtotal	**$286,048**
	Contingency[a] (+15%)	$42,907
	2009 Inflation adjustment[b]	$10,029
	Total	**$338,984**
Option 2	**Excavation of hot spot contaminated soil and installation of a pump and treat groundwater system**	
	Soil Excavation and Off-Site Disposal (hazardous waste) - assumes excavation of 2 upland hot spots (600 cy total); offsite disposal at hazardous waste facility; backfilling; decontamination facilities; analytical testing	$183,466
	Monitoring Well Installation - assumes 4 monitoring wells to 45' bgs (includes sampling/analysis)	$42,587
	Groundwater Treatment - assumes 150' x 350' contamination plume; pump and treat with filtration and 2 carbon vessels (in series) w/ treated water discharge to POTW	$148,804
	Groundwater Treatment O&M and Monitoring- assumes 5 year operation and monitoring	$446,477
	Subtotal	**$821,334**
	Contingency[a] (+15%)	$123,200
	2009 Inflation adjustment[b]	$28,797
	Total	**$973,331**
Option 3	**Dredging of shoreline sediments, installation of an upland barrier wall, and installation of an upland asphalt cap.**	
	Soil Excavation and Off-Site Disposal (Haz) - assumes excavation of 2 upland hot spots (600 cy total); offsite disposal at haz facility; backfilling; decontamination facilities; analytical testing	$183,466
	Monitoring Well Installation - assumes 4 monitoring wells to 45' bgs (includes sampling/analysis)	$42,587
	Groundwater Treatment - assumes 150' x 350' contamination plume; pump and treat with filtration and 2 carbon vessels (in series) with treated water discharge to POTW	$148,804
	Groundwater Treatment O&M and Monitoring - assumes 5 year operation and monitoring	$446,477
	Barrier Wall - assumes soil bentonite barrier wall (i.e., slurry wall) around GW plume; dimensions: 1000' long x 60' deep with 12" protective gravel cover	$539,517
	Upland Cap - assumes cap dimensions 150' x 350'; HDPE geomembrane with drainage/protection layer overlain with 3" thick asphalt surface layer (includes gas vents and perimeter security fence)	$411,935
	Sediment Dredging - assumes nearshore sediment dredging using water-based equipment; includes bathymetric surveying (pre and post construction), sediment BMPs (e.g., booms, silt curtains, etc.), and sediment dewatering; dredge area 50' x 350' x 4' deep or approx. 2600 cubic yards	$453,126
	Sediment Disposal - assumes offsite transportation and disposal of dredged sediment (following dewatering/solidification) at non-haz facility; 2600 cubic yards	$193,737
	Subtotal	**$2,419,649**
	Contingency[a] (+15%)	$362,947
	2009 Inflation adjustment[b]	$84,836
	Total	**$2,867,432**

Notes:
1. Costs estimates developed using Remedial Action Cost Engineering and Requirements (RACER®), 2008, Software System for Windows
2. Estimates do not include additional study/investigation (e.g., RI/FS), design, long term monitoring, 5 year reviews, site closeout, etc.
3. Costs includes direct costs plus a location modifier of 1.021 (Washington State Average) and overhead and profit (25% field office overhead, 10% subcontractor profit, and 15% prime profit).

[a] The 15% contingency allows for unforeseen costs.

[b] Inflation mark up estimated using the RSMeans Historical Cost Index inflation mark up from 2008 to the first quarter of 2009

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5 Conclusions

The Bremerton Gasworks site, which is located in Bremerton, Washington, was the subject of this TBA. During the investigation, potential sources of contamination were identified. The field sampling event was conducted from May 12 to May 15 and on May 19 and June 4, 2008. For this TBA, seven subsurface boreholes locations were drilled to total depths of 45 feet bgs. A total of 65 subsurface soil and groundwater samples were collected. Five sediment samples were collected from the beach along the Washington Narrows. The analytical results for these samples were compared to either MTCA Method A or EPA RSL screening criteria values for soil and groundwater, NOAA SQuiRTs and Washington State SQS values for sediments.

SVOCs, TAL metals, TPHs, and VOCs are present at various locations around the site but in no discernable pattern. The aerial extent of contamination is limited to several localized "hot spots," but lateral extent is limited to specific subsurface layers. VOC and SVOC contamination does appear to decrease with depth at all borehole locations at the McConkey Property and the Sesko Property. Analytical results of the subsurface soil samples indicate that arsenic is present in all locations at all sample intervals at concentrations that exceed its analyte-specific screening criteria. Based on the natural background soil concentration (1.1 mg/kg to 7.5 mg/kg), it appears that the levels of arsenic found in the site soils may be naturally occurring, even though they are above the MTCA Method A screening criteria.

Analytical results of the on-site groundwater samples indicate that soil contamination has migrated to groundwater. Sample results indicate that SVOC, TPH-diesel, and VOC contamination is present in the water table.

Analytical results of the sediment samples collected on the Washington Narrows indicated the presence of SVOCs at concentrations that exceeded their screening criteria. Based on the analytical results, it appears that contamination from previous operations at the site has migrated to the sediments and, potentially, the surface water in Washington Narrows. Several active seeps were discovered along the Washington Narrows beachfront.

The cleanup options and estimated costs discussed in Section 4 include three remediation options. The first option includes removal of approximately 600 cubic yards of contaminated soil and installation of four monitoring wells to gather additional groundwater contamination data. The second option includes action to be taken under option 1, plus installation of a groundwater pump and

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treat system. The third option includes remediation options 1 and 2, plus installation of an upland barrier wall, installation of an asphalt soil cap, and sediment dredging of the Washington Narrows sediments. Additional cleanup options that were not discussed in Section 4 may be available as well.

Based on analytical results and professional judgment, it is recommended that the City of Bremerton consult with the Department of Ecology to expedite the remediation process.

6 References

ATSDR, 2005. Bremerton Naval Complex including Puget Sound Naval Shipyard Bremerton, Kitsap County, Washington. National Technical Information Service, Springfield, Virgina.

Buchman, M.F. 2008. NOAA Screening Quick Reference Tables, NOAA OR&R Report 08-1, Seattle, WA, Office of Response and Restoration Division, National Oceanic and Atmospheric Administration, 34 pages. http://response.restoration.noaa.gov/book_shelf/122_NEW-SQuiRTs.pdf

_____, March 2008b, Bremerton Gasworks Targeted Brownfields Assessment Sampling and Quality Assurance Plan, Bremerton, Washington. Prepared for the United States Environmental Protection Agency contract number S&-02-06, Seattle, Washington

_____, February 2, 2007, START interview with McConkey property operator Trip McConkey, Bremerton, WA.

_____, April 2004, McCorkmick and Baxter Remedial Action Construction Summary Report Assessment, Portland, Oregon. Prepared for the Oregon Department of Environmental Quality task order 71-03-12, Portland, Oregon

GeoEngineers, September 20, 2007, *Preliminary Upland Assessment Report, McConkey/Sesko Properties,* Seattle, WA .

RACER, Remedial Action Cost Engineering and Requirements (RACER), 2008, Software System for Windows

RSMeans, Historical Cost Index 2008 – 2009 edition, Phillip R. Wairer, R.S. Means Company, Chicago, IL.

TechLaw, Inc., August 22, 2006, *Phase I Targeted Brownfields Site Assessment,* Port Orchard, WA.

United States Environmental Protection Agency (EPA), March 2009, EPA Mid-Atlantic Risk Assessment Risk Based Concentration Tables http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/faq.htm

_____, October 2002a, EPA Brownfields Economic Redevelopment Initiative, Office of Solid Waste and Emergency Response, Quick Reference Sheet, 500-F00-241.

_____, December 2002b. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. OSWER 9355.4-24. December 2002. http://www.epa.gov/superfund/health/conmedia/soil/index.html

_____,1996a. Soil Screening Guidance: User's Guide. Office of Emergency and Remedial Response. Washington, DC. OSWER No. 9355.4-23 http://www.epa.gov/superfund/health/conmedia/soil/index.htm#user

_____,1996b. Soil Screening Guidance: Technical Background Document. Office of Emergency and Remedial Response. Washington, DC. OSWER No. 9355.4-17A http://www.epa.gov/superfund/health/conmedia/soil/introtbd.htm

_____,1991. Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual (Part B, Development of Risk-Based Preliminary Remediation Goals). Office of Emergency and Remedial Response. EPA/540/R-92/003. December 1991.

Washington State Department of Ecology (Ecology), March 2009, Facility/Site Search Database, Facility Identification Number 2788449 https://fortress.wa.gov/ecy/facilitysitesearch/FSDetailReport.aspx?id=2788449

_____,October 2008, *Model Toxics Control Act* Cleanup *Regulations Chapter 173-340 WAC*, Publication Number 94-06, Washington State Department of Ecology Toxics Cleanup Program.

_____,Ecology. 2007. Evaluating the toxicity and assessing the carcinogenic risk of environmental mixtures using toxicity equivalency factors *https://fortress.wa.gov/ecy/clarc/FocusSheets/tef.pdf*

A Photographic Documentation

BREMERTON-012142

PHOTO DOCUMENTATION

Site: Bremerton Gasworks Targeted Brownsfield Assessment	**Lat/Long:** 47.578067,-122.642956	**Date:** 5/12/2008-5/19/2008, 6/4/2008
Location: Bremerton, WA	**Camera:** Sony Cybershot 73	**Photographer:** Bryce Robbert, WSI – Joanne LaBaw, EPA

Description: Subcontractor drilling at SP03

Time: 08:25 **Direction: Northwest**

Photo No: 1773

Description: Collection of sample SP02SB05

Time: 07:48 **Direction: Down**

Photo No: 1771

BREMERTON-012144

PHOTO DOCUMENTATION

Site: Bremerton Gasworks Targeted Brownsfield Assessment	**Lat/Long:** 47.578067,-122.642956	**Date:** 5/12/2008-5/19/2008, 6/4/2008
Location: Bremerton, WA	**Camera:** Sony Cybershot 73	**Photographer:** Bryce Robbert, WSI – Joanne LaBaw, EPA

Description: Collection of soil sample at SP02

Time: 07:49 **Direction: West**

Photo No: 1772

Description: North McConkey beachfront property

Time: 11:18 **Direction: West**

Photo No: 0714

PHOTO DOCUMENTATION

Site: Bremerton Gasworks Targeted Brownsfield Assessment	**Lat/Long:** 47.578067,-122.642956	**Date:** 5/12/2008-5/19/2008, 6/4/2008
Location: Bremerton, WA	**Camera:** Sony Cybershot 73	**Photographer:** Bryce Robbert, WSI – Joanne LaBaw, EPA

Description: Sesko beachfront property on the Washington Narrows

Time: 11:18 **Direction: South**

Photo No: 0715

Description: EPA/START collecting samples on the Washington Narrows

Time: 11:21 **Direction: Southeast**

Photo No: 0716

PHOTO DOCUMENTATION

Site: Bremerton Gasworks Targeted Brownsfield Assessment	**Lat/Long:** 47.578067,-122.642956	**Date:** 5/12/2008-5/19/2008, 6/4/2008
Location: Bremerton, WA	**Camera:** Sony Cybershot 73	**Photographer:** Bryce Robbert, WSI – Joanne LaBaw, EPA

Description: Unknown drainpipe near the Sesko beachfront property

Time: 12:21 **Direction: Down**

Photo No: 0717

Description: Abandoned drums (filled with solid debris) near the North McConkey Property

Time: 12:24 **Direction: Down**

Photo No: 0718

PHOTO DOCUMENTATION

Site: Bremerton Gasworks Targeted Brownsfield Assessment	**Lat/Long:** 47.578067,-122.642956	**Date:** 5/12/2008-5/19/2008, 6/4/2008
Location: Bremerton, WA	**Camera:** Sony Cybershot 73	**Photographer:** Bryce Robbert, WSI – Joanne LaBaw, EPA

Description: START collecting sample WN01SD

Time: 13:17 **Direction: Down**

Photo No: 0723

Description: START collecting sample WN02SD

Time: 14:05 **Direction: West**

Photo No: 0724

PHOTO DOCUMENTATION

Site: Bremerton Gasworks Targeted Brownsfield Assessment	**Lat/Long:** 47.578067,-122.642956	**Date:** 5/12/2008-5/19/2008, 6/4/2008
Location: Bremerton, WA	**Camera:** Sony Cybershot 73	**Photographer:** Bryce Robbert, WSI – Joanne LaBaw, EPA

Description: START collecting sample WN03SD

Time: 14:23 **Direction: Down**

Photo No: 0725

Description: START collecting sample WN04SD

Time: 14:47 **Direction: Down**

Photo No: 0726

PHOTO DOCUMENTATION

Site: Bremerton Gasworks Targeted Brownsfield Assessment	**Lat/Long:** 47.578067,-122.642956	**Date:** 5/12/2008-5/19/2008, 6/4/2008
Location: Bremerton, WA	**Camera:** Sony Cybershot 73	**Photographer:** Bryce Robbert, WSI – Joanne LaBaw, EPA

Description: START collecting sample WN05SD

Time: 15:10 **Direction: West**

Photo No: 0727

Description: Extreme close-up of oily product release after sampling

Time: 15:18 **Direction: Down**

Photo No: 0728

PHOTO DOCUMENTATION

Site: Bremerton Gasworks Targeted Brownsfield Assessment	**Lat/Long:** 47.578067,-122.642956	**Date:** 5/12/2008-5/19/2008, 6/4/2008
Location: Bremerton, WA	**Camera:** Sony Cybershot 73	**Photographer:** Bryce Robbert, WSI – Joanne LaBaw, EPA

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Description: Sample WN01SD with oily sheen

Time: 15:31 **Direction: Down**

Photo No: 0730

Description:

Time: **Direction:**

Photo No:

B

Screening Criteria and Analytical Results

Table B-1 Soil Sample Screening Criteria

Analyte	Screening Criteria		
	MTCA - Method A [1]	EPA Regional Screening Levels - Residential [2]	Selected Screening Criteria
Semivolatile Organic Compounds (µg/kg)			
Acenaphthene		3400000	3400000
Acenaphthylene			
Anthracene		17000000	17000000
Benz(a)anthracene		150	150
Benzo(a)pyrene	100	15	15
Benzo(a)pyrene Equivalents (BAPE)	100	15	15
Benzo(b)fluoranthene		150	150
Benzo(g,h,i)perylene			
Benzo(k)fluoranthene		1500	1500
Benzoic acid		240000000	240000000
benzyl alcohol		31000000	31000000
Bis(2-ethylhexyl)phthalate		35000	35000
Butyl Benzyl Phthalate		260000	260000
Chrysene		15000	15000
Dibenz(a,h)anthracene		15	15
Dibenzofuran			
Dibutyl phthalate		6100000	6100000
Diethyl phthalate		49000000	49000000
Dimethyl phthalate			
Dimethylphenol, 2,4-		1200000	1200000
Dioctyl phthalate			
Fluoranthene		2300000	2300000
Fluorene		2300000	2300000
Hexachlorobenzene		300	300
Hexachlorobutadiene		6200	6200
Hexachloroethane		35000	35000
Indeno(1,2,3-cd)pyrene		150	150
Methylphenol, 2-			
Methylphenol, 4-			
Naphthalene	5000	3900	3900
Nitrosodiphenylamine, N-		99000	99000
Pentachlorophenol		3000	3000
Phenanthrene			
Phenol		18000000	18000000
Pyrene		1700000	1700000
Trimethylbenzene, 1,3,5-		47000	47000
Target Analyte List Metals (mg/kg)			
Antimony (metallic)		31	31
Arsenic, inorganic	20	0.39	0.39
Barium		15000	15000
Cadmium	2	70	2
Chromium, Total		280	280
Chromium (III) (Insoluble Salts)	2000	120000	2000
Chromium VI (particulates)	19	39	19
Copper		3100	3100
Lead and compounds	250	400	250
Mercury (elemental)		6.7	6.7
Mercury (inorganic salts)	2	23	2
Mercury			

Table B-1 Soil Sample Screening Criteria

Analyte	Screening Criteria		
	MTCA - Method A [1]	EPA Regional Screening Levels - Residential [2]	Selected Screening Criteria
Nickel Soluble Salts		1600	1600
Selenium		390	390
Silver		390	390
Thallium (Soluble Salts)		5.1	5.1
Tributyltin compounds		18	18
Tributyltin oxide		18	18
Zinc (Metallic)		23000	23000
Total Petroleum Hydrocarbons (mg/kg)			
TPH as diesel	2000		2000
TPH as gasoline (benzene present)	30		30
TPH as gasoline (no benzene)	100		100
TPH-Heavy Oils	2000		2000
Volatile Organic Compounds (µg/kg)			
Acetone		61000000	61000000
Benzene	30	1100	30
Bromobenzene		94000	94000
Bromochloromethane			
Bromodichloromethane		10000	10000
Bromoform		61000	61000
Dichloropropene, 1,1-			
Trichlorobenzene, 1,2,3-			
Bromomethane		7900	7900
Butylbenzene, n-			
Butylbenzene, sec-			
Butylbenzene, tert-			
Carbon Disulfide		670000	670000
Carbon Tetrachloride		250	250
Chloroethane			
Chloroform		300	300
Chloromethane		1700	1700
Chlorotoluene, o-		1600000	1600000
Chlorotoluene, p-		5500000	5500000
Dibromo-3-chloropropane, 1,2-		5.6	5.6
Dibromochloromethane		5800	5800
Dibromomethane (Methylene Bromide)		780000	780000
Dibromomethane, 1,2-			
Dichlorobenzene, 1,2-		2000000	2000000
Dichlorobenzene, 1,3-			
Dichlorobenzene, 1,4-		2600	2600
Dichlorodifluoromethane		190000	190000
Dichloroethane, 1,1-		3400	3400
Dichloroethane, 1,1-		3400	3400
Dichloroethane, 1,2-		450	450
Dichloroethylene, 1,2-cis-		780000	780000
Dichloroethylene, 1,2-trans-		110000	110000
Dichloropropane, 1,2-		930	930
Dichloropropane, 1,3-		1600000	1600000
Dichloropropane, 2,2-			
Dichloropropene, 1,3-		1700	1700
Ethylbenzene	6000	5700	5700

Table B-1 Soil Sample Screening Criteria

Analyte	Screening Criteria		
	MTCA - Method A [1]	EPA Regional Screening Levels - Residential [2]	Selected Screening Criteria
hexanone, 2-			
Isopropylbenzene			
Isopropyltoluene, 4-			
Methyl Ethyl Ketone (2-Butanone)		28000000	28000000
Methyl tertbutyl ether (MTBE)	100	39000	100
Methyl-2-pentanone, 4-			
Methylene Chloride	20	11000	20
Propylbenzene, n-			
Styrene		6500000	6500000
Tetrachloroethane, 1,1,1,2-		2000	2000
Tetrachloroethane, 1,1,2,2-		590	590
Tetrachloroethylene	50	570	50
Toluene	7000	5000000	7000
Trichlorobenzene, 1,2,4-		87000	87000
Trichloroethane, 1,1,1-	2000	9000000	2000
Trichloroethane, 1,1,2-		1100	1100
Trichloroethylene	30	2800	30
Trichlorofluoromethane		800000	800000
Trichloropropane, 1,2,3-		91	91
Trimethylbenzene, 1,2,4-		67000	67000
Vinyl Chloride		60	60
Xylene, m-		4500000	4500000
Xylene, mixture	9000	600000	9000
Xylene, o-		5300000	5300000
Xylene, p-		4700000	4700000

Note: Blank cells indicate no screening criteria is available for that method and/or analyte.

[1] MTCA Cleanup Refulations, Chapter 173-340, November 2007.

[2] EPA Regional Screening Levels, September 12, 2008.

Key:

EPA = United States Environmental Protection Agency.
mg/kg = milligrams per kilogram.
µg/kg = micrograms per kilogram.
MTCA = Model Toxics Control Act.

Table B-2 Groundwater Sample Screening Criteria

Analyte	Screening Criteria				
	MTCA - Method A [1]	Washington MCL [2]	Federal MCL [3]	EPA Regional Screening Levels - Tap Water [4]	Selected Screening Criteria
Semivolatile Organic Compounds (µg/L)					
Acenaphthene				2200	2200
Acenaphthylene					
Anthracene				11000	11000
Benz(a)anthracene				0.029	0.029
Benzo(a)pyrene	0.1	0.2		0.0029	0.0029
Benzo(a)pyrene (PAH)			0.2		0.2
Benzo(b)fluoranthene				0.029	0.029
Benzo(g,h,i)perylene					
Benzo(k)fluoranthene				0.29	0.29
Benzoic acid				150000	150000
Benzoic acid				150000	150000
benzyl alcohol				18000	18000
Bis(2-ethylhexyl)phthalate			6	4.8	4.8
Butyl Benzyl Phthalate				35	35
Chrysene				2.9	2.9
Dibenz(a,h)anthracene				0.0029	0.0029
Dibenzofuran					
Dibutyl phthalate				3700	3700
Diethyl phthalate				29000	29000
Dimethyl phthalate					
Dimethylphenol, 2,4-				730	730
Dioctyl phthalate					
Fluoranthene				1500	1500
Fluorene				1500	1500
Hexachlorobenzene			1	0.042	0.042
Hexachlorobutadiene				0.86	0.86
Hexachloroethane				4.8	4.8
Indeno(1,2,3-cd)pyrene				0.029	0.029
Methylphenol, 2-					
Methylphenol, 4-					
Naphthalene	160			0.14	0.14
Nitrosodiphenylamine, N-				14	14
Pentachlorophenol			1	0.56	0.56
Phenanthrene					
Phenol				11000	11000
Pyrene				1100	1100
Trimethylbenzene, 1,3,5-				12	12
Target Analyte List Metals (mg/L)					
Antimony (metallic)		6	6	6	6
Arsenic, inorganic	5	100	10	0.045	0.045
Barium		2000	2000	2000	2000
Cadmium	5	5	5	5	5
Chromium, Total	50	100	100	50	50
Chromium (III) (Insoluble Salts)				55000	55000
Chromium VI (particulates)					
Copper			1300	1300	1300
Lead and compounds	15	15	15	15	15
Mercury (elemental)				0.63	0.63
Mercury (inorganic salts)					
Mercury	2	2	2	2	2
Nickel Soluble Salts		100		100	100

Table B-2 Groundwater Sample Screening Criteria

Analyte	Screening Criteria				
	MTCA - Method A [1]	Washington MCL [2]	Federal MCL [3]	EPA Regional Screening Levels - Tap Water [4]	Selected Screening Criteria
Selenium		50	50	180	50
Silver		100 (5)	100 (4)	100	100
Thallium (Soluble Salts)		2	2	2.4	2
Tributyltin compounds				11	11
Tributyltin oxide				11	11
Zinc (Metallic)		5000 (5)	5000 (4)	5000	5000
Total Petroleum Hydrocarbons (mg/L)					
TPH as diesel	500			0.5	0.5
TPH as gasoline (benzene present)	800			0.8	0.8
TPH as gasoline (no benzene)	1000			1	1
TPH-Heavy Oils	500			0.5	0.5
Volatile Organic Compounds (µg/L)					
Acetone				22000	22000
Benzene	5	5	5	0.41	0.41
Bromobenzene				0.015	0.015
Bromochloromethane					
Bromodichloromethane				1.1	1.1
Bromoform				8.5	8.5
Dichloropropene, 1,1-					
Trichlorobenzene, 1,2,3-					
Bromomethane				8.7	8.7
Butylbenzene, n-					
Butylbenzene, sec-					
Butylbenzene, tert-					
Carbon Disulfide				1000	1000
Carbon Tetrachloride			5	0.2	0.2
Chloroethane					
Chloroform				0.19	0.19
Chloromethane				1.8	1.8
Chlorotoluene, o-				730	730
Chlorotoluene, p-				2600	2600
Dibromo-3-chloropropane, 1,2-				0.00032	0.00032
Dibromochloromethane				0.8	0.8
Dibromomethane (Methylene Bromide)				370	370
Dibromomethane, 1,2-	0.01		0.05		0.01
Dichlorobenzene, 1,2-			600	370	370
Dichlorobenzene, 1,3-					
Dichlorobenzene, 1,4-			75	0.43	0.43
Dichlorodifluoromethane				390	390
Dichloroethane, 1,1-				2.4	2.4
Dichloroethane, 1,1-				2.4	2.4
Dichloroethane, 1,2-	5		5	0.15	0.15
Dichloroethylene, 1,2-cis-			70	370	70
Dichloroethylene, 1,2-trans-			100	110	100
Dichloropropane, 1,2-			5	0.39	0.39
Dichloropropane, 1,3-				730	730
Dichloropropane, 2,2-					
Dichloropropene, 1,3-				0.43	0.43
Ethylbenzene	700	700	700	1.5	1.5
hexanone, 2-					
Isopropylbenzene					
Isopropyltoluene, 4-					

Table B-2 Groundwater Sample Screening Criteria

Analyte	Screening Criteria				
	MTCA - Method A [1]	Washington MCL [2]	Federal MCL [3]	EPA Regional Screening Levels - Tap Water [4]	Selected Screening Criteria
Methyl Ethyl Ketone (2-Butanone)				7100	7100
Methyl tertbutyl ether (MTBE)	20			12	12
Methyl-2-pentanone, 4-					
Methylene Chloride	5			4.8	4.8
Propylbenzene, n-					
Styrene			100	1600	100
Tetrachloroethane, 1,1,1,2-				0.52	0.52
Tetrachloroethane, 1,1,2,2-				0.067	0.067
Tetrachloroethylene	5		5	0.11	0.11
Toluene	1000	1000	1000	2300	1000
Trichlorobenzene, 1,2,4-			70	8.2	8.2
Trichloroethane, 1,1,1-	200		200	9100	200
Trichloroethane, 1,1,2-			5	0.24	0.24
Trichloroethylene	5		5	1.7	1.7
Trichlorofluoromethane				1300	1300
Trichloropropane, 1,2,3-				0.0096	0.0096
Trimethylbenzene, 1,2,4-				15	15
Vinyl Chloride	0.2		2	0.016	0.016
Xylene, m-				1400	1400
Xylene, mixture	1000	10000	10000	200	200
Xylene, o-				1400	1400
Xylene, p-				1500	1500

Note: Blank cells indicate no screening criteria is available for that method and/or analyte.

[1] MTCA Cleanup Regulations, Chapter 173-340, November 2007.

[2] State Primary Maximum Contaminat Levels, Chapter 248-290-31- WAC.

[3] EPA National Primary Drinking Water Standards, June 2003.

[4] EPA Regional Screening Levels, September 12, 2008.

Key:

EPA = United States Environmental Protection Agency.
mg/kg = milligrams per kilogram.
µg/kg = micrograms per kilogram.
µg/L = micrograms per liter
MCL = Maximum Contaminant Level.
MTCA = Model Toxics Control Act.
WAC = Washington Administrative Code.

Table B-3 Sediment Sample Screening Criteria

Analyte	Screening Criteria: SQuiRT Marine Values Apparent Effects Threshold	Screening Criteria: Washington Sediment Quality Standard	Screening Criteria: Selected Screening Criteria
Semivolatile Organic Compounds (µg/kg)			
Acenaphthene	130	500	130
Acenaphthylene	71	560	71
Anthracene	280	960	280
Benz(a)anthracene	960	1,300	960
Benzo(a)pyrene	1,100	1,600	1,100
Benzo(b)fluoranthene	1,800		1,800
Benzo(g,h,i)perylene	670	670	670
Benzo(k)fluoranthene	1,800		1,800
Benzo(b+k)fluoranthene		3,200	3,200
Benzoic acid	65	650	65
benzyl alcohol	52	57	52
Bis(2-ethylhexyl)phthalate	1,300	1,300	1,300
Butyl Benzyl Phthalate	63	63	63
Chrysene	950	1,400	950
Dibenz(a,h)anthracene	230	230	230
Dibenzofuran	110	540	110
Dibutyl phthalate		1,400	1,400
Diethyl phthalate	6	200	6
Dimethyl phthalate	6	71	6
Dimethylphenol, 2,4-	18	29	18
Dioctyl phthalate	61	6,200	61
Fluoranthene	1,300	1,700	1,300
Fluorene	120	540	120
Hexachlorobenzene	6	22	6
Hexachlorobutadiene	1.3	11	1.3
Hexachloroethane	73		73
Indeno(1,2,3-cd)pyrene	600	600	600
Methylnaphthalene, 2-	64		64
Methylphenol, 2-		63	
Methylphenol, 4-		670	670
Naphthalene	230	2,100	230
Nitrosodiphenylamine, N-	28	28	28
Pentachlorophenol	17	360	17
Phenanthrene	660	1,500	660
Phenol	130	420	130
Pyrene	2,400	2,600	2,400
Target Analyte List Metals (mg/kg)			
Aluminum	1.8%		1.8%
Antimony (metallic)	9.3		9.3
Arsenic, inorganic	35	57	35
Barium	48		48
Cadmium	3	5.1	3
Chromium, Total	62	260	62
Copper	390	390	390
Lead and compounds	400	450	400
Manganese	260		260
Mercury	0.41	0.41	0.41
Nickel Soluble Salts	110		110
Selenium	1		1
Silver	3.1	6.1	3.1
Zinc (Metallic)	410	410	410

Table B-3 Sediment Sample Screening Criteria

Analyte	Screening Criteria: SQuiRT Marine Values Apparent Effects Threshold	Screening Criteria: Washington Sediment Quality Standard	Screening Criteria: Selected Screening Criteria
Total Petroleum Hydrocarbons (mg/kg)			
Volatile Organic Compounds (µg/kg)			
Acetone		61,000,000	61,000,000
Benzene		30	30
Dichlorobenzene, 1,2-	13		13
Dichlorobenzene, 1,4-	110		110
Ethylbenzene	4	5,700	4
Methylene Chloride		20	20
Tetrachloroethylene	57		57
Toluene		7,000	7,000
Trichlorobenzene, 1,2,4-	4.8		4.8
Trichloroethylene	41		41
Xylene, mixture	4		4
Xylene, o-		430,000	430,000

Note: Blank cells indicate no screening criteria is available for that method and/or analyte.
Screening values include 'apparent effects levels' for marine sediment from NOAA's SQuiRT and Washington State Sediment Quality Standards.

Key:

EPA = United States Environmental Protection Agency.
mg/kg = milligrams per kilogram.
µ/kg = micrograms per kilogram.
NOAA = National Oceanic and Atmospheric Administration
SQuiRT = Screening Quick Reference Tables

Table B-4 Subsurface Soil Samples (0 to 5 feet bgs) Analytical Results Summary

EPA Sample ID CLP Sample ID Station Location Description	Screening Criteria	Source of Screening Criteria	08204402 J8K23 MP01SB05	08204409 J8K30 MP02SB05	08204416 J8K37 MP03SB05	08204423 J8K44 MP04SB05	08204433 J8K54 SP01SB05	08204440 J8K61 SP02SB05	08204447 J8K68 SP03SB05
			McConkey Property				Sesko Property		
Semivolatile Organic Compounds (µg/kg)									
1,1'-Biphenyl			22 U	23 U	26 U	23 U	33 U	26 U	**980**
1,2,4-Trimethylbenzene	67000	EPA Regional	22 U	23 U	26 U	23 U	33 U	26 U	**2600**
1,3,5-Trimethylbenzene	47000	EPA Regional	22 U	23 U	26 U	23 U	33 U	26 U	**5500**
2-Methylnaphthalene			1100 UJ	1.1 U	26 U	**5.4**	1.6 U	**6.2**	**100000**
Acenaphthene	3400000	EPA Regional	1100 UJ	1.1 U	26 U	**7.6**	1.6 U	**8.9**	**460 J**
Acenaphthylene			1100 UJ	1.1 U	26 U	1.8	1.6 U	1.8	2400
Acetophenone			22 U	23 U	26 U	23 U	33 U	26 U	1800
Anthracene	17000000	EPA Regional	1100 UJ	1.1 U	26 U	**5.6**	1.6 U	**6.7**	**320 J**
Benzo(a)anthracene	150	EPA Regional	**480**	**20 J**	1.3 U	**4.1**	1.6 U	**4.4**	**1600**
Benzo(a)pyrene Equivalents (BAPE)	15	EPA Regional	**807**	**86**	16 U	**5**	**1.7**	**6**	**3338**
Benzo(a)pyrene	15	EPA Regional	**570**	**68**	26 U	**4.1**	1.1 JQ	**4.8**	**2500**
Benzo(b)fluoranthene	150	EPA Regional	**430**	**23 J**	26 U	**1.8 J**	1.6 UJ	**2.4**	**1800**
Benzo(g,h,i)perylene			**520**	1.1 U	26 U	**2.8**	**2.2**	**2.6**	**2400**
Benzo(k)fluoranthene	1500	EPA Regional	**470**	**55**	26 U	**2.2 J**	0.9 JQ	**2.9**	**2200**
Bis(2-ethylhexyl)phthalate	35000	EPA Regional	**180 J**	**290**	**240**	**100**	**160**	**160**	24 UJ
Carbazole			**26**	23 U	26 U	23 U	33 U	26 U	**560**
Chrysene	15000	EPA Regional	**520**	**35**	1.3 U	**5.2**	1.1 JQ	**5.9**	**3900**
Dibenzo(a,h)anthracene	15	EPA Regional	1100 U	**20 J**	1.3 U	**1.9**	1.5 JQ	**1.3 J**	**780**
Dibenzofuran			22 U	23 U	26 U	23 U	33 U	26 U	**63 J**
Fluoranthene	2300000	EPA Regional	**1100**	**2.3**	26 U	**9.1**	1.6 U	**10**	**12000 J**
Fluorene	2300000	EPA Regional	1100 UJ	1.1 U	26 U	**5**	1.6 U	**6**	**4600**
Indeno(1,2,3-cd)pyrene	150	EPA Regional	**390**	**55**	1.3 U	**2.6**	**1.9**	**2.2**	**2000**
Naphthalene	3900	EPA Regional	670 JQ	1.1 U	26 U	**270000**	1.6 JQ	1.4 U	1.9 U
Phenanthrene			**600 J**	**1.3**	1.3 U	**17 J**	1.6 U	**21 J**	**40000**
Pyrene	1700000	EPA Regional	**1400**	**3.5**	1.3 U	**16**	**1 JQ**	**15 J**	**12000 J**
Target Analyte List Metals (mg/kg)									
Aluminum			**11200 J**	**14600**	**19300**	**13400 J**	**16500 J**	**24100 J**	**14900**
Antimony	31	EPA Regional	R	0.77 JQ	R	R	R	R	7.2 UJ
Arsenic	0.39	EPA Regional	**1.08**	**1.2**	**4.0**	**1.46**	**2.08**	**2.04**	**4.17**
Barium	15000	EPA Regional	**46.1 J**	**64.5**	**113**	**57.4 J**	**70.4 J**	**120 J**	**71.3**
Cadmium	2	MTCA- Method A	0.27 JQ	0.55 U	0.63 U	0.48 JQ	0.51 JQ	**0.74**	**1.2**
Calcium			**3200**	**1620**	**5200**	**4070**	**3490**	**3180**	**7440**
Chromium	280	EPA Regional	**20.4**	**22.4**	**49.3**	**26.6**	**33**	**43.1**	**28.1 J**
Cobalt			**5.8**	**6.6**	**14.8**	**9.2**	**9.2**	**11.1**	**10.3**
Copper	3100	EPA Regional	**11.1**	**13**	**36.3**	**16.9**	**19.7**	**26.3**	**45.7**
Iron			**10900 J**	**13500**	**28500**	**17800 J**	**18400 J**	**24800 J**	**24300**

Table B-4 Subsurface Soil Samples (0 to 5 feet bgs) Analytical Results Summary

EPA Sample ID CLP Sample ID Station Location Description	Screening Criteria	Source of Screening Criteria	08204402 J8K23 MP01SB05	08204409 J8K30 MP02SB05	08204416 J8K37 MP03SB05	08204423 J8K44 MP04SB05	08204433 J8K54 SP01SB05	08204440 J8K61 SP02SB05	08204447 J8K68 SP03SB05
			McConkey Property				Sesko Property		
Lead	250	MTCA- Method A	**5.6 J**	**3.7**	**6.3**	**2.4 J**	**2.4 J**	**4.4 J**	**31.2**
Magnesium			**3750 J**	**4210**	**8650**	**4930 J**	**5120 J**	**5720 J**	**5130**
Manganese			**193 J**	**225**	**526**	**375 J**	**289 J**	**307 J**	**388**
Nickel	1600	EPA Regional	**30.1 J**	**35.5**	**65.7**	**36.8 J**	**40.4 J**	**41.6 J**	**60.9**
Potassium			462 JQ	355 JQ	**844**	531 JQ	505 JQ	404 JQ	563 JQ
Thallium	5.1	EPA Regional	2.2 JQ	2.8 U	3.2 U	**3**	**3.4**	**4.1**	**3**
Vanadium			**26.5**	**31.3**	**61.7**	**40.2**	**44.7**	**62.6**	**54.1**
Zinc	23000	EPA Regional	**23.6 J**	**25.3 J**	**56.3 J**	**35.1 J**	**34.3 J**	**55.9 J**	**114**
Total Petroleum Hydrocarbons (mg/kg)									
Diesel Range Organics	2000	MTCA- Method A	25 U	25 U	25 U	**1800**	25 U	25 U	100 U
Oil & Grease	2000	MTCA- Method A	**110**	**18**	50 U	98 U	50 U	50 U	**4700 J**
Volatile Organic Compounds (µg/kg)									
1,2,3-Trichlorobenzene			7.2 U	5.7 U	1.3 U	5 U	**0.14 JQ**	6.8 U	580 U
1,2,4-Trichlorobenzene	87000	EPA Regional	7.2 U	5.7 U	1.3 U	5 U	**0.23 JQ**	6.8 U	580 U
Acetone	61000000	EPA Regional	**26**	5.7 U	6.3 U	**28**	**55**	**36**	1200 U
Benzene	30	MTCA- Method A	1.4 U	1.1 U	1.3 U	1 U	**2.2**	1.4 U	**4800**
Ethylbenzene	5700	EPA Regional	1.4 U	1.1 U	1.3 U	**86 J**	2.1 U	1.4 U	**3600**
Isopropylbenzene			1.4 U	1.1 U	1.3 U	**7.8**	2.1 U	1.4 U	**130**
o-Xylene	5300000	EPA Regional	1.4 U	1.1 U	1.3 U	**94 J**	2.1 U	1.4 U	**3400**
Tetrachloroethene	50	MTCA- Method A	1.4 U	1.1 U	1.3 U	1 U	**0.59 J**	1.4 U	580 U
Toluene	7000	MTCA- Method A	1.4 JQ	1.1 U	1.3 U	**4.8**	0.84 JQ	**1.6**	**7700**
Trichlorofluoromethane	800000	EPA Regional	1.4 U	1.1 U	1.3 U	1 U	1.9 JQ	**3.2**	580 U

Note: Bold type indicates the sample result is above the instrument detection limit.
Highlighted cells indicate the sample result exceeds its analyte-specific screening criteria.
BAPE calculated accoring to MTCA TEFs; assuming nondetect analytes present at one-half the detection limit.

Key:

bgs = below ground surface.
CLP = Contract Laboratory Program.
EPA = United States Environmental Protection Agency.
ID = Identification.
J = The analyte was positively identified. The associated numerical result is an estimate.
µg/kg = micrograms per kilogram.
mg/kg = milligrams per kilogram.
NA = The analyte was not analyzed for.
Q = Detected concetnration is below the method reporting limit/contract Required Quantitation Limit, but is above the method quantitation limit.
R = The data are unusable for all purposes.
U = The analyte was not detected at or above the reported result.

Table B-5 Subsurface Soil Samples (5 to 10 feet bgs) Analytical Results Summary

EPA Sample ID			08204403	08204410	08204417	08204424	08204434	08204441	08204448
CLP Sample ID			J8K24	J8K31	J8K38	J8K45	J8K55	J8K62	J8K69
Station Location	Screening	Source of Screening	MP01SB10	MP02SB10	MP03SB10	MP04SB10	SP01SB10	SP02SB10	SP03SB10
Description	Criteria	Criteria		McConkey Property				Sesko Property	
Semivolatile Organic Compounds (µg/kg)									
1,1'-Biphenyl			22 U	23 U	22 U	23 U	24 U	26 U	**65 J**
2-Methylnaphthalene			1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.3 U	**200**
Acenaphthene	3400000	EPA Regional	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.3 U	**53**
Acenaphthylene			1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.3 U	**1400**
Anthracene	17000000	EPA Regional	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.3 U	**2800**
Benzo(a)anthracene	150	EPA Regional	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.3 U	**14000 J**
Benzo(a)pyrene Equivalents (BAPE)	15	EPA Regional	**1.1**	0.8 U	0.8 U	**1.5**	**1.0**	**1**	**47510**
Benzo(a)pyrene	15	EPA Regional	0.69 JQ	1.1 U	1.1 U	1 JQ	1.2 U	26 U	**36000**
Benzo(b)fluoranthene	150	EPA Regional	1.1 UJ	1.1 U	1.1 U	1.1 UJ	1.2 UJ	1.3 U	**15000 J**
Benzo(g,h,i)perylene			**1.5**	1.1 U	1.1 U	**1.7**	**1.7**	**1.3**	**83000**
Benzo(k)fluoranthene	1500	EPA Regional	1.1 UJ	1.1 U	1.1 U	0.56 JQ	1.2 UJ	1.3 U	**13000 J**
Bis(2-ethylhexyl)phthalate	35000	EPA Regional	**82**	**120**	**82**	**100**	**96**	**170**	31 UJ
Carbazole			22 U	23 U	22 U	23 U	24 U	26 U	**120 J**
Chrysene	15000	EPA Regional	0.59 JQ	1.1 U	1.1 U	0.73 JQ	1.2 U	1.3 U	**16000 J**
Dibenzo(a,h)anthracene	15	EPA Regional	**1.2**	1.1 U	1.1 U	**1.4**	1.2 JQ	0.94 JQ	**4500**
Dibenzofuran			22 U	23 U	22 U	23 U	24 U	26 U	**63**
Fluoranthene	2300000	EPA Regional	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.3 U	**35000 J**
Fluorene	2300000	EPA Regional	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.3 U	**450 J**
Indeno(1,2,3-cd)pyrene	150	EPA Regional	**1.4**	1.1 U	1.1 U	**1.6**	**1.3**	1 JQ	**67000**
Naphthalene	3900	EPA Regional	1.3 U	1.2 U	1.1 U	1.1 U	0.62 JQ	1.8 U	**680000 J**
Phenanthrene			1.1 U	1.1 U	1.1 U	0.83 JQ	1.2 U	1.3 U	**8300**
Pyrene	1700000	EPA Regional	0.6 JQ	1.1 U	1.1 U	0.75 JQ	1.2 U	1.3 U	**22000 J**
Target Analyte List Metals (mg/kg)									
Aluminum			**11200 J**	**11500**	**7670**	**8050 J**	**10700 J**	**20600 J**	**5780**
Antimony	31	EPA Regional	R	R	R	R	R	R	1.2 JQ
Arsenic	0.39	EPA Regional	**1.98**	**0.82**	**0.86**	**0.8**	**1.13**	**3.71**	**7.85**
Barium	15000	EPA Regional	**45.7 J**	**43.1**	**43.6**	**0.24 J**	**44.6 J**	**103 J**	**74.1**
Cadmium	2	MTCA-Method A	0.31 JQ	0.55 U	0.54 U	0.24 JQ	0.36 JQ	**0.94**	**1.6**
Calcium			**3300**	**1840**	**2960**	**3050**	**3740**	**6400**	**21300**
Chromium	280	EPA Regional	**20.5**	**19.8**	**18.9**	**21.6**	**26**	**51.8**	**59.9 J**
Cobalt			**6.6**	**5.7**	**5.7**	**5.5**	**7.8**	**17.3**	3.3 JQ
Copper	3100	EPA Regional	**14.4**	**10.4**	**10.3**	**11.2**	**14.2**	**42.8**	**62.7**
Iron			**13400 J**	**11200**	**11300**	**11200 J**	**15100 J**	**34300 J**	**47800**
Lead	250	MTCA-Method A	**1.3 J**	**2.5**	**4.3**	0.55 JQ	**1.2 J**	**4.4 J**	**128**
Magnesium			**4600 J**	**3810**	**3410**	**3960 J**	**4580 J**	**8930 J**	**1380**
Manganese			**274 J**	**201**	**244**	**197 J**	**276 J**	**627 J**	**215**
Nickel	1600	EPA Regional	**30.5 J**	**31.8**	**29.7**	**32.5 J**	**34.1 J**	**57.8 J**	**28.4**
Potassium			465 JQ	372 JQ	294 JQ	371 JQ	431 JQ	**1090**	233 JQ
Thallium	5.1	EPA Regional	2.2 JQ	2.8 U	1.1 JQ	1.8 JQ	**2.8**	**5**	4.1 U
Vanadium			**31.7**	**23.3**	**25.1**	**25.3**	**35.4**	**85.3**	**30.2**
Zinc	23000	EPA Regional	**24 J**	**21 J**	**21.8 J**	**22.3 J**	**29 J**	**66.4 J**	**376**

Table B-5 Subsurface Soil Samples (5 to 10 feet bgs) Analytical Results Summary

EPA Sample ID CLP Sample ID Station Location Description	Screening Criteria	Source of Screening Criteria	08204403 J8K24 MP01SB10	08204410 J8K31 MP02SB10	08204417 J8K38 MP03SB10	08204424 J8K45 MP04SB10	08204434 J8K55 SP01SB10	08204441 J8K62 SP02SB10	08204448 J8K69 SP03SB10
			McConkey Property					Sesko Property	
Total Petroleum Hydrocarbons (mg/kg)									
Diesel Range Organics	2000	MTCA-Method A	25 U	25 U	25 U	25 U	25 U	25 U	**36000 J**
Oil & Grease	2000	MTCA-Method A	50 U	50 U	50 U	50 U	50 U	50 U	**29000 J**
Volatile Organic Compounds (µg/kg)									
Acetone	61000000	EPA Regional	**11**	6.2 U	4.6 U	**13**	**31**	**25**	14000 U
Benzene	30	MTCA-Method A	1.3 U	1.2 U	0.91 U	1.5 U	**2**	1.4 JQ	**12000**
Ethylbenzene	5700	EPA Regional	1.3 U	1.2 U	0.91 U	1.5 U	1.1 U	1.8 U	**24000**
Isopropylbenzene			1.3 U	1.2 U	0.91 U	1.5 U	1.1 U	1.8 U	**1600**
Methylene chloride	20	MTCA-Method A	**0.58 J**	2.7 U	0.91 U	1.5 U	1.1 U	1.8 U	1400 U
o-Xylene	5300000	EPA Regional	1.3 U	1.2 U	0.91 U	1.5 U	1.1 U	1.8 U	**55000**
Toluene	7000	MTCA-Method A	0.38 JQ	1.2 U	0.26 U	1.5 U	0.57 JQ	1.8 U	**3300**

Note: Bold type indicates the sample result is above the instrument detection limit.
Highlighted cells indicate the sample result exceeds its analyte-specific screening criteria.

Key:

bgs = below ground surface.
CLP = Contract Laboratory Program.
EPA = United States Environmental Protection Agency.
ID = Identification.
J = The analyte was positively identified. The associated numerical result is an estimate.
mg/kg = milligrams per kilogram.
µg/kg = micrograms per kilogram.
MTCA = Model Toxiex Control Act
NA = The analyte was not analyzed for.
Q = Detected concetnration is below the method reporting limit/contract Required Quantitation Limit, but is above the method quantitation limit.
R = The data are unusable for all purposes.
U = The analyte was not detected at or above the reported result.

Table B-6 Subsurface Soil Samples (10 to 15 feet bgs) Analytical Results Summary

EPA Sample ID CLP Sample ID Station Location Description	Screening Criteria	Source of Screening Criteria	08204404 J8K25 MP01SB15	08204411 J8K32 MP02SB15 McConkey Property	08204425 J8K46 MP04SB15	08204435 J8K56 SP01SB15	08204442 J8K63 SP02SB15 Sesko Property	08204449 J8K70 SP03SB15
Semivolatile Organic Compounds (µg/kg)								
1,3,5-Trimethylbenzene	47000	EPA Regional	22 U	22 U	NA	24 U	26 U	**41**
2,4-Dimethylphenol	1200000	EPA Regional	22 U	22 U	NA	24 U	26 U	**31**
2-Methylnaphthalene			1 U	1.1 U	NA	**3.1 J**	1.3 U	**350**
Acenaphthene	3400000	EPA Regional	1 U	1.1 U	NA	**4.7 J**	1.3 U	**12**
Acenaphthylene			1 U	1.1 U	NA	1.2 UJ	0.91 JQ	110
Anthracene	17000000	EPA Regional	1 U	1.1 U	NA	**4.1 J**	0.86 JQ	18 JQ
Benzo(a)anthracene	150	EPA Regional	1 U	1.1 U	NA	2.2 J	3.5	30
Benzo(a)pyrene Equivalents (BAPE)	15	EPA Regional	**0.94**	**0.83**	NA	**3.7**	**4.3**	**41**
Benzo(a)pyrene	15	EPA Regional	0.53 JQ	1.1 U	NA	**2.7 J**	**3.3**	**32**
Benzo(b)fluoranthene	150	EPA Regional	1.1 UJ	1.1 U	NA	1.2 UJ	**1.5**	**18**
Benzo(g,h,i)perylene			**1.4**	0.71 JQ	NA	**3.7 J**	**2**	**13**
Benzo(k)fluoranthene	1500	EPA Regional	1.1 UJ	1.1 U	NA	**1.6 J**	**1.9**	**22**
Bis(2-ethylhexyl)phthalate	35000	EPA Regional	**100**	**150**	NA	**120**	**240**	**100**
Carbazole			22 U	22 U	NA	24 U	26 U	**26**
Chrysene	15000	EPA Regional	1 U	1.1 U	NA	**3.1 J**	**5.1**	**48**
Dibenzo(a,h)anthracene	15	EPA Regional	**1.1**	1.1 U	NA	**2.3 J**	0.99 JQ	**2.8 J**
Fluoranthene	2300000	EPA Regional	1 U	1.1 U	NA	**5.3 J**	**4.9**	**61**
Fluorene	2300000	EPA Regional	1 U	1.1 U	NA	**3.4 J**	1.3 U	**72**
Indeno(1,2,3-cd)pyrene	150	EPA Regional	**1.3**	1.1 U	NA	**3 J**	**1.6**	**9.8**
Naphthalene	3900	EPA Regional	0.61 JQ	0.59 JQ	NA	**3 J**	1.3 U	**9500**
Phenanthrene			22 U	1.1 U	NA	**11 J**	**2.3**	**160**
Pyrene	1700000	EPA Regional	1 U	1.1 U	NA	**7.3 J**	**8.3**	**78**
Styrene	6500000	EPA Regional	1.4 U	1.4 U	NA	1.2 U	1.3 U	**1.5**
Target Analyte List Metals (mg/kg)								
Aluminum			**7360 J**	**8700**	**16500 J**	**8370 J**	**20100 J**	**14700**
Antimony	31	EPA Regional	R	R	R	R	R	6 UJ
Arsenic	0.39	EPA Regional	**0.87**	**0.49**	**2.04**	**1.78**	2.7 U	**0.87**
Barium	15000	EPA Regional	**31.8 J**	**35.4**	**83.1 J**	**43.4 J**	**100 J**	**63.9**
Cadmium	2	MTCA-Method A	0.22 JQ	0.53 U	**0.74**	0.3 JQ	**0.94**	**0.6**
Calcium			**3040**	**2250**	**6730**	**3270**	**6310**	**4410**
Chromium	280	EPA Regional	**18.9**	**17.9**	**42.6**	**29.1**	**48.7**	**32 J**
Cobalt			**5.7**	**5.4**	**13.3**	**9.1**	**15.7**	**11.9**
Copper	3100	EPA Regional	**9.8**	**9.1**	**33.4**	**15**	**40.9**	**24.6**
Iron			**10900 J**	**10700**	**27100 J**	**13800 J**	**32800 J**	**21000**
Lead	250	MTCA-Method A	1 JQ	**2.1**	**3.6 J**	1.2 U	**4.3 J**	**2.8**
Magnesium			**4290 J**	**4140**	**8530 J**	**4430 J**	**8710 J**	**5520**
Manganese			**202 J**	**194**	**530 J**	**341 J**	**557 J**	**339**
Nickel	1600	EPA Regional	**34.3 J**	**32.7**	**50.8 J**	**42.5 J**	**56.7 J**	**40.2**
Potassium			411 JQ	366 JQ	**1110**	407 JQ	**1080**	**587**
Thallium	5.1	EPA Regional	1.7 JQ	2.7 U	**4.3**	2.4 JQ	**4.7**	**3.9**

Table B-6 Subsurface Soil Samples (10 to 15 feet bgs) Analytical Results Summary

EPA Sample ID CLP Sample ID Station Location Description	Screening Criteria	Source of Screening Criteria	08204404 J8K25 MP01SB15	08204411 J8K32 MP02SB15	08204425 J8K46 MP04SB15	08204435 J8K56 SP01SB15	08204442 J8K63 SP02SB15	08204449 J8K70 SP03SB15
				McConkey Property			Sesko Property	
Vanadium			**23.7**	**24.8**	**61.2**	**31.5**	**75.1**	**47.2**
Zinc	23000	EPA Regional	**21.5 J**	**19.6 J**	**53.7 J**	**26.2 J**	**63.9 J**	**44.3**
Total Petroleum Hydrocarbons (mg/kg)								
Gasoline Range Organics	30	MTCA-Method A	7 U	6 U	6 U	5 U	7 U	**10**
Oil & Grease	2000	MTCA-Method A	50 U	50 U	50 U	50 U	**52**	50 U
Volatile Organic Compounds (µg/kg)								
Acetone	61000000	EPA Regional	7.1 U	6.8 U	NA	**40**	**9.4**	**47**
Benzene	30	MTCA-Method A	1.4 U	1.4 U	NA	1.2 JQ	1.2 JQ	**1.6**
Ethylbenzene	5700	EPA Regional	**6.7**	1.4 U	NA	1.2 U	1.3 U	**10**
Isopropylbenzene			1.7	1.4 U	NA	1.2 U	1.3 U	0.94 JQ
o-Xylene	5300000	EPA Regional	**11**	1.4 U	NA	1.2 U	1.3 U	**14**
Trichlorofluoromethane	800000	EPA Regional	1.4 U	1.4 U	NA	0.94 JQ	**1.5**	1.3 U

Note: Bold type indicates the sample result is above the instrument detection limit.
Highlighted cells indicate the sample result exceeds its analyte-specific screening criteria.

Key:

bgs = below ground surface.
CLP = Contract Laboratory Program.
EPA = United States Environmental Protection Agency.
ID = Identification.
J = The analyte was positively identified. The associated numerical result is an estimate.
µg/kg = micrograms per kilogram.
mg/kg = milligrams per kilogram.
NA = The analyte was not analyzed for.
Q = Detected concetnration is below the method reporting limit/contract Required Quantitation Limit, but is above the method quantitation limit.
R = The data are unusable for all purposes.
U = The analyte was not detected at or above the reported result.

Table B-7 Subsurface Soil Samples (15 to 20 feet bgs) Analytical Results Summary

EPA Sample ID CLP Sample ID Station Locaiton Description	Screening Criteria	Source of Screening Criteria	08204405 J8K33 MP01SB20	08204412 J8K33 MP02SB20	08204419 J8K40 MP03SB20	08204428 J8K49 MP04SB20	08204436 J8K57 SP01SB20	08204443 J8K64 SP02SB20	08204450 J8K71 SP03SB20
			McConkey Property					Sesko Property	
Semivolatile Organic Compounds (µg/kg)									
1,3,5-Trimethylbenzene	47000	EPA Regional	21 U	24 U	25 U	22 U	25 U	26 U	**26**
2-Methylnaphthalene			1 U	1.2 U	1.2 U	1.1 U	1.2 U	1.3 U	**160**
Anthracene	17000000	EPA Regional	1 U	1.2 U	1.2 U	1.1 U	1.2 U	1.3 U	**2.1**
Benzo(a)anthracene	150	EPA Regional	1 U	1.2 U	1.2 U	1.1 U	1.2 U	1.3 UJ	**3**
Benzo(a)pyrene Equivalents (BAPE)	15	EPA Regional	**1.2**	0.91 U	0.91 U	**1.1**	0.91 U	**1.0**	**4.6**
Benzo(a)pyrene	15	EPA Regional	0.74 JQ	1.2 U	1.2 U	0.65 JQ	1.2 U	1.3 UJ	**3.5**
Benzo(b)fluoranthene	150	EPA Regional	1.1 UJ	1.2 U	1.2 U	1.1 UJ	1.2 U	1.3 UJ	**2.5**
Benzo(g,h,i)perylene			**1.9**	1.2 U	1.2 U	1.3	0.77 JQ	**1.3 J**	**2.3**
Benzo(k)fluoranthene	1500	EPA Regional	1.1 UJ	1.2 U	1.2 U	1.1 UJ	1.2 U	1.3 UJ	**2.8**
Bis(2-ethylhexyl)phthalate	35000	EPA Regional	**75**	**180**	**160**	**82**	**180**	**110**	**110**
Chrysene	15000	EPA Regional	1 U	1.2 U	1.2 U	1.1 U	1.2 U	1.3 UJ	**4.8**
Dibenzo(a,h)anthracene	15	EPA Regional	**1.6**	1.2 U	1.2 U	1.1	1.2 U	0.8 JQ	1.3 U
Fluoranthene	2300000	EPA Regional	1 U	1.2 U	1.2 U	1.1 U	1.2 U	1.3 U	**7.1**
Fluorene	2300000	EPA Regional	1 U	1.2 U	1.2 U	1.1 U	1.2 U	0.7 JQ	**4**
Indeno(1,2,3-cd)pyrene	150	EPA Regional	**1.8**	1.2 U	1.2 U	1.3	1.2 U	0.87 JQ	**1.6**
Naphthalene	3900	EPA Regional	0.58 JQ	1.3 U	1.1 U	1.0 JQ	1.2 U	1.1 U	**96 J**
Phenanthrene			1 U	1.2 U	1.2 U	0.61 JQ	0.74 JQ	1.3 U	**12**
Phenol	18000000	EPA Regional	21 U	24 U	25 U	22 U	25 U	26 U	**39**
Pyrene	1700000	EPA Regional	1 U	1.2 U	1.2 U	1.1 U	1.2 U	1.3 UJ	**9.7**
Target Analyte List Metals (mg/kg)									
Aluminum			**6760 J**	**8120**	**12200**	**8950 J**	**20500 J**	**20800 J**	**18200**
Antimony	31	EPA Regional	R	R	R	R	R	R	7.5 UJ
Arsenic	0.39	EPA Regional	**0.77**	**0.50**	**0.97**	**1.01**	**1.52**	**1.39**	**3.89**
Barium	15000	EPA Regional	**30.1 J**	**36.9**	**51.5**	**35.7 J**	**88.6 J**	**95.6 J**	**94**
Cadmium	2	MTCA-Method A	0.22 JQ	0.56 U	0.59 U	0.25 JQ	**0.86**	**0.96**	**0.91**
Calcium			**3030**	**2070**	**2770**	**2740**	**6940**	**7290**	**7080**
Chromium	280	EPA Regional	**18**	**18.3**	**22.5**	**19.2**	**50.9**	**60.8**	**48.3 J**
Cobalt			**5.5**	5.5 JQ	**7.2**	5.5 JQ	**15.7**	**16.9**	**14.1**
Copper	3100	EPA Regional	**10.3**	**9.1**	**13.8**	**11.7**	**41.6**	**46.4**	**41.2**
Iron			**10400 J**	**9940**	**15000**	**11700 J**	**29600 J**	**32400 J**	**33000**
Lead	250	MTCA-Method A	0.72 JQ	**2**	**3.3**	0.83 JQ	**4.7 J**	**4.8 J**	**4.5**
Magnesium			**4440 J**	**3640**	**4590**	**4100 J**	**9510 J**	**11400 J**	**9970**
Manganese			**198 J**	**189**	**261**	**208 J**	**421 J**	**449 J**	**824**
Nickel	1600	EPA Regional	**34.5 J**	**32.7**	**35**	**31 J**	**58.2 J**	**56 J**	**52.9**
Potassium			393 JQ	383 JQ	542 JQ	400 JQ	**1280**	**1350**	**1240**
Thallium	5.1	EPA Regional	1.5 JQ	2.8 U	1.2 JQ	1.9 JQ	**4.5**	**5**	**5.1**
Vanadium			**22.7**	**20.7**	**34.2**	**24.9**	**69.9**	**86**	**73.4**
Zinc	23000	EPA Regional	**20.6 J**	**19.9 J**	**27.6 J**	**23.1 J**	**69.2 J**	**72.3 J**	**62.7**
Total Petroleum Hydrocarbons (mg/kg)									
Gasoline Range Organics	30	MTCA-Method A	7 U	6 U	6 U	6 U	5 U	6 U	**9**

Table B-7 Subsurface Soil Samples (15 to 20 feet bgs) Analytical Results Summary

EPA Sample ID CLP Sample ID Station Locaiton Description	Screening Criteria	Source of Screening Criteria	08204405 J8K33 MP01SB20	08204412 J8K33 MP02SB20	08204419 J8K40 MP03SB20	08204428 J8K49 MP04SB20	08204436 J8K57 SP01SB20	08204443 J8K64 SP02SB20	08204450 J8K71 SP03SB20
			McConkey Property					Sesko Property	
Volatile Organic Compounds (µg/kg)									
Acetone	61000000	EPA Regional	6.3 U	**17**	**6.5**	9.7	6.5 U	**27**	**24 J**
Benzene	30	MTCA-Method A	1.3 U	1.3 U	1.1 UJ	1.3 U	0.85 JQ	0.88 JQ	**6.4 J**
Ethylbenzene	5700	EPA Regional	1.3 U	1.3 U	1.1 UJ	1.3 U	1.3 U	1.1 U	**6.1 J**
o-Xylene	5300000	EPA Regional	1.3 U	1.3 U	1.1 UJ	1.3 U	1.3 U	1.1 U	**6.5 J**
Styrene	6500000	EPA Regional	1.3 U	1.3 U	1.1 UJ	1.3 U	1.3 U	1.1 U	**3 J**
Toluene	7000	MTCA-Method A	0.46 JQ	1.3 U	0.99 JQ	0.47 JQ	1.2 JQ	0.6 JQ	**1 J**
Trichlorofluoromethane	800000	EPA Regional	1.3 U	1.3 U	1.1 U	1.3 U	**1.8**	0.88 JQ	1.2 UJ

Note: Bold type indicates the sample result is above the instrument detection limit.
Highlighted cells indicate the sample result exceeds its analyte-specific screening criteria.

Key:

bgs = below ground surface.
CLP = Contract Laboratory Program.
EPA = United States Environmental Protection Agency.
ID = Identification.
J = The analyte was positively identified. The associated numerical result is an estimate.
µg/kg = micrograms per kilogram.
mg/kg = milligrams per kilogram.
Q = Detected concetnration is below the method reporting limit/contract Required Quantitation Limit, but is above the method quantitation limit.
R = The data are unusable for all purposes.
U = The analyte was not detected at or above the reported result.

Table B-8 Subsurface Soil Samples (20 to 25 feet bgs) Analytical Results Summary

EPA Sample ID CLP Sample ID Station Location Description	Screening Criteria	Source of Screening Criteria	08204406 J8K27 MP01SB25	08204413 J8K43 MP02SB25	08204427 J8K48 MP04SB25	08204444 J8K65 SP02SB25	08204451 J8K72 SP03SB25
				McConkey Property			Sesko Property
Semivolatile Organic Compounds (µg/kg)							
2-Methylnaphthalene			1.2 U	1.1 U	**5.3**	1.1 U	26 U
Anthracene	17000000	EPA Regional	1.2 U	1.1 U	**1.4**	1.1 U	1.3 U
Benzo(a)anthracene	150	EPA Regional	1.2 U	1.1 U	**2.2**	1.1 U	1.3 U
Benzo(a)pyrene Equivalents (BAPE)	15	EPA Regional	**0.97**	0.8 U	**14**	**3.7**	**15**
Benzo(a)pyrene	15	EPA Regional	1.2 U	1.1 U	25 U	**3.4**	**15**
Benzo(b)fluoranthene	150	EPA Regional	1.2 UJ	1.1 U	**1.4 J**	1.1 U	1.3 U
Benzo(g,h,i)perylene			1.1 JQ	1.1 U	**2.9**	1.1 U	1.3 U
Benzo(k)fluoranthene	1500	EPA Regional	1.2 UJ	1.1 U	**1.6 J**	1.1 U	1.3 U
Bis(2-ethylhexyl)phthalate	35000	EPA Regional	**93**	**130**	**240**	**200**	**140**
Butylbenzylphthalate	260000	EPA Regional	24 U	**15 J**	25 U	23 U	26 U
Chrysene	15000	EPA Regional	1.2 U	1.1 U	**3**	1.1 U	**2.3**
Dibenzo(a,h)anthracene	15	EPA Regional	0.88 JQ	1.1 U	**2.6**	1.1 U	1.3 U
Fluoranthene	2300000	EPA Regional	1.2 U	1.1 U	**3.6**	1.1 U	**3**
Indeno(1,2,3-cd)pyrene	150	EPA Regional	1 JQ	1.1 U	**2.8**	1.1 U	1.3 U
Naphthalene	3900	EPA Regional	0.72 JQ	1.1 U	1.2 U	**2.8**	1.6 U
Phenanthrene			1.2 U	1.1 U	**5.3**	1.1 U	**2.4**
Phenol	18000000	EPA Regional	24 U	22 U	25 U	23 U	**81**
Pyrene	1700000	EPA Regional	1.2 U	1.1 U	**4.8**	1.1 U	**4.3**
Target Analyte List Metals (mg/kg)							
Aluminum			**9680 J**	**7850**	**20300 J**	**7280 J**	**19600**
Antimony	31	EPA Regional	R	R	R	R	7.6 UJ
Arsenic	0.39	EPA Regional	**1.03**	**0.77**	**3.64**	**1.17**	**2.47**
Barium	15000	EPA Regional	**37.9 J**	**35.1**	**91.2 J**	**34.4 J**	**101**
Cadmium	2	MTCA-Method A	0.3 JQ	0.54 U	**0.87**	0.2 JQ	**0.88**
Calcium			**3210**	**2130**	**6740**	**3180**	**7250**
Chromium	280	EPA Regional	**20.3**	**16.8**	**48.4**	**20.1**	**46.2 J**
Cobalt			**6.5**	**5.5**	**19**	5.6 JQ	**15.5**
Copper	3100	EPA Regional	**10.7**	**8.3**	**43.1**	**11.6**	**43.7**
Iron			**12800 J**	**10100**	**31700 J**	**11700 J**	**32400**
Lead	250	MTCA-Method A	0.8 JQ	**2.1**	**4.5 J**	0.66 JQ	**4.7**
Magnesium			**4610 J**	**3770**	**9430 J**	**5050 J**	**12200**
Manganese			**177 J**	**193**	**597 J**	**192 J**	**520**
Nickel	1600	EPA Regional	**36.9 J**	**32.8**	**66.3 J**	**33.5 J**	**56.5**

Table B-8 Subsurface Soil Samples (20 to 25 feet bgs) Analytical Results Summary

EPA Sample ID CLP Sample ID Station Location Description	Screening Criteria	Source of Screening Criteria	08204406 J8K27 MP01SB25	08204413 J8K43 MP02SB25	08204427 J8K48 MP04SB25	08204444 J8K65 SP02SB25	08204451 J8K72 SP03SB25
			McConkey Property			Sesko Property	
Potassium			398 JQ	387 JQ	**1240**	370 JQ	**1570**
Thallium	5.1	EPA Regional	2.4 JQ	2.7 U	**4.5**	2.3 JQ	**4.6**
Vanadium			**30.1**	**22.3**	**69.3**	**24**	**70.4**
Zinc	23000	EPA Regional	**23.6 J**	**19.1 J**	**68.2 J**	**34.7 J**	**65.7**
Volatile Organic Compounds (µg/kg)							
2-Butanone			6.3 U	5.7 U	6.1 U	6 U	**15**
Acetone	61000000	EPA Regional	**21**	**16**	6.1 U	**50**	**64**
Benzene	30	MTCA-Method A	1.3 U	1.1 U	1.2 U	0.69 JQ	**180**
Carbon disulfide	670000	EPA Regional	1.3 U	1.1 U	1.2 U	1.2 U	**5.9**
Methylene chloride	20	MTCA-Method A	1.3 U	1.3 U	1.2 U	1.2 U	**3.6**
Toluene	7000	MTCA-Method A	1.2 JQ	1.1 U	1.2 U	1.2 U	**2.1**
Trichlorofluoromethane	800000	EPA Regional	1.3 U	1.1 U	1.2 U	0.84 JQ	**1.9**

Note: Bold type indicates the sample result is above the instrument detection limit.
Highlighted cells indicate the sample result exceeds its analyte-specific screening criteria.

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J = The analyte was positively identified. The associated numerical result is an estimate.
µg/kg = micrograms per kilogram.
mg/kg = milligrams per kilogram.
NA = The analyte was not analyzed for.
Q = Detected concetnration is below the method reporting limit/contract Required Quantitation Limit, but is above the method quantitation limit.
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U = The analyte was not detected at or above the reported result.

Table B-9 Subsurface Soil Samples (25 to 30 feet bgs) Analytical Results Summary

EPA Sample ID			08204407	08204414	08204445	08204452
CLP sample ID			J8K28	J8K35	J8K66	J8K73
Station Location	Screening	Source of	MP01SB30	MP02SB30	SP02SB30	SP03SB30
Description	Criteria	Screening Criteria	McConkey Property		Sesko Property	
Semivolatile Organic Compounds (µg/kg)						
2-Methylnaphthalene			1.1 U	1.1 U	1.2 U	**3.4**
Benzo(a)anthracene	150	EPA Regional	1.1 U	**3.8**	1.2 U	**2.6 J**
Benzo(a)pyrene Equivalents (BAPE)	15	EPA Regional	**0.93**	**9.5**	2.0 U	**14**
Benzo(a)pyrene	15	EPA Regional	0.56 JQ	**7.7**	1.2 U	**13 J**
Benzo(b)fluoranthene	150	EPA Regional	1.1 UJ	**4.5**	1.2 U	**2.3**
Benzo(g,h,i)perylene			**1.2**	**5**	1.2 U	**2.3 J**
Benzo(k)fluoranthene	1500	EPA Regional	1.1 UJ	**4.7**	1.2 U	**2.7 J**
Bis(2-ethylhexyl)phthalate	35000	EPA Regional	**83**	**100**	**240**	**150**
Chrysene	15000	EPA Regional	0.67 JQ	**6.9**	1.2 U	**4.3 J**
Dibenzo(a,h)anthracene	15	EPA Regional	**0.92 J**	1.1 U	1.2 U	1.3 U
Fluoranthene	2300000	EPA Regional	0.68 JQ	**2.1**	1.2 U	1.3 U
Indeno(1,2,3-cd)pyrene	150	EPA Regional	**1.1**	**3.5**	24 U	**1.6 J**
Naphthalene	3900	EPA Regional	**1.3**	1.1 U	1.9 U	2.5 U
Pyrene	1700000	EPA Regional	0.81 JQ	**3.5**	1.2 U	**9.5 J**
Target Analyte List Metals (mg/kg)						
Aluminum			**11300 J**	**7240**	**7380**	**22000**
Antimony	31	EPA Regional	R	R	7.3 UJ	7.7 UJ
Arsenic	0.39	EPA Regional	**1.62**	**0.68**	**1.28**	**2.53**
Barium	15000	EPA Regional	**37.8 J**	**33.5**	**28.5**	**110**
Cadmium	2	MTCA-Method A	0.48 JQ	0.53 U	0.23 JQ	**1.1**
Calcium			**5310**	**2040**	**3640**	**7940**
Chromium	280	EPA Regional	**36.4**	**16**	**18.9 J**	**53.3 J**
Cobalt			**10.1**	5 JQ	5.4 JQ	**17.3**
Copper	3100	EPA Regional	**25.3**	**8**	**9.5**	**52.1**
Iron			**18500 J**	**9570**	**11100**	**36500**
Lead	250	MTCA-Method A	**1.3 J**	**1.8**	0.6 JQ	**5.2**
Magnesium			**5920 J**	**3520**	**4600**	**14300**
Manganese			**401 J**	**173**	**170**	**662**
Nickel	1600	EPA Regional	**30.6 J**	**31.4**	**32.3**	**62.2**
Potassium			376 JQ	361 JQ	401 JQ	**1900**
Thallium	5.1	EPA Regional	2.6 JQ	2.7 U	1.8 JQ	**5.5**
Vanadium			**45.9**	**20.8**	**25.4**	**77.8**
Zinc	23000	EPA Regional	**34.2 J**	**18.9 J**	**22.3**	**76.7**
Volatile Organic Compounds (µg/kg)						
Acetone	61000000	EPA Regional	**9.5**	**16**	**28**	**47**
Benzene	30	MTCA-Method A	1.1 U	1.1 U	1.9 U	**44**
Carbon disulfide	670000	EPA Regional	1.1 U	1.1 U	1.9 U	**4.3**
Methylene chloride	20	MTCA-Method A	1.1 U	**1.1 J**	1.9 U	2.3 U
Toluene	7000	MTCA-Method A	0.48 JQ	1.1 U	1.9 U	**2.1**
Trichlorofluoromethane	800000	EPA Regional	1.1 U	1.1 U	1.9 U	**2.4**

Note: Bold type indicates the sample result is above the instrument detection limit.
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mg/kg = milligrams per kilogram.
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Q = Detected concetnration is below the method reporting limit/contract Required Quantitation Limit, but is above the method quantitation limit.
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Table B-10 Subsurface Soil Samples (30 to 35 feet bgs) Analytical Results Summary

EPA Sample ID CLP Sample ID Station Location Description	Screening Criteria	Source of Screening Criteria	08204468 J8K84 MP01SB35 McConkey Property	08204463 J8K79 SP03SB35 Sesko Property
Semivolatile Organic Compounds (µg/kg)				
2-Methylnaphthalene			1.2 UJ	**5.9**
Benzo(a)anthracene	150	EPA Regional	1.2 U	**3.2**
Benzo(a)pyrene Equivalents (BAPE)	15	EPA Regional	**0.99**	**11**
Benzo(a)pyrene	15	EPA Regional	1.2 U	**10**
Benzo(b)fluoranthene	150	EPA Regional	1.2 UJ	**2.7**
Benzo(g,h,i)perylene			1.2 JQ	**2.5**
Benzo(k)fluoranthene	1500	EPA Regional	1.2 UJ	**2.9**
Bis(2-ethylhexyl)phthalate	3500	EPA Regional	**250**	**100**
Butylbenzylphthalate	260000	EPA Regional	**29**	26 UJ
Chrysene	15000	EPA Regional	0.67 JQ	**4.9**
Di-n-butylphthalate	6100000	EPA Regional	**16 J**	27 U
Dibenzo(a,h)anthracene	15	EPA Regional	**0.96 J**	**0.93 J**
Fluoranthene	2300000	EPA Regional	1.2 UJ	**8.6**
Indeno(1,2,3-cd)pyrene	150	EPA Regional	1.1 JQ	**1.8**
Phenanthrene			1.2 U	**4.1**
Phenol	18000000	EPA Regional	25 U	**62 J**
Pyrene	1700000	EPA Regional	1.2 U	**11**
Target Analyte List Metals (mg/kg)				
Aluminum			**18500**	**22500**
Arsenic	0.39	EPA Regional	**3.2**	**4.57**
Barium	15000	EPA Regional	**89.1**	**113**
Cadmium	2	MTCA-Method A	**0.92**	**1.2**
Calcium			**7150**	**7900**
Chromium	280	EPA Regional	**48.1 J**	**54.7 J**
Cobalt			**15.8**	**18.1**
Copper	3100	EPA Regional	**41.5**	**54**
Iron			**32600**	**37200**
Lead	250	MTCA-Method A	**4.1**	**5.4**
Magnesium			**11000**	**14900**
Manganese			**497**	**678**
Nickel	1600	EPA Regional	**54**	**65.3**
Potassium			**1360**	**2000**
Thallium	5.1	EPA Regional	**4.7**	**5.7**
Vanadium			**72.3**	**80.1**
Zinc	23000	EPA Regional	**63**	**79**
Volatile Organic Compounds (µg/kg)				
Acetone	61000000	EPA Regional	**20**	**33**
Benzene	30	MTCA-Method A	1.3 U	**150**
Carbon disulfide	670000	EPA Regional	1.3 U	**7.5**
Trichlorofluoromethane	800000	EPA Regional	1.3 U	**7.8**

Note: Bold type indicates the sample result is above the instrument detection limit.
Highlighted cells indicate the sample result exceeds its analyte-specific screening criteria.

Key:

bgs = below ground surface.
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Table B-11 Subsurface Soil Samples (35 to 40 feet bgs) Analytical Results Summary

EPA Sample ID CLP Sample ID Station Locaiton Description	Screening Criteria	Source of Screening Criteria	08204466 J8K82 MP04SB40 McConkey Property	08204464 J8K80 SP03SB40 Sesko Property
Semivolatile Organic Compounds (µg/kg)				
2-Methylnaphthalene			1.1 U	**2.8**
Benzo(a)anthracene	150	EPA Regional	1.1 U	**2.3**
Benzo(a)pyrene Equivalents (BAPE)	15	EPA Regional	**1.04**	**19**
Benzo(a)pyrene	15	EPA Regional	1.1 U	**18 J**
Benzo(b)fluoranthene	150	EPA Regional	1.1 U	**2.5**
Benzo(g,h,i)perylene			**1.4**	**2.3**
Benzo(k)fluoranthene	1500	EPA Regional	1.1 U	**2.4**
Bis(2-ethylhexyl)phthalate	35000	EPA Regional	**160**	**120**
Chrysene	15000	EPA Regional	1.1 U	**3.8**
Dibenzo(a,h)anthracene	15	EPA Regional	**2.2**	0.80 JQ
Fluoranthene	2300000	EPA Regional	1.1 U	**5.9**
Indeno(1,2,3-cd)pyrene	150	EPA Regional	1 JQ	**1.6**
Phenanthrene			1.1 U	**2.2**
Phenol	18000000	EPA Regional	23 U	**100**
Pyrene	1700000	EPA Regional	1.1 U	**7.4**
Target Analyte List Metals (mg/kg)				
Aluminum			**6370**	**19600**
Arsenic	0.39	EPA Regional	**0.68**	**2.21**
Barium	15000	EPA Regional	**23.9**	**93.9**
Cadmium	2	MTCA-Method A	0.2 JQ	**0.91**
Calcium			**2960**	**7230**
Chromium	280	EPA Regional	**14.6 J**	**46.7 J**
Cobalt			4.9 JQ	**15.6**
Copper	3100	EPA Regional	**11.7**	**44.5**
Iron			**10100**	**32400**
Lead	250	MTCA-Method A	1.2 U	**4.3**
Magnesium			**3650**	**12500**
Manganese			**179**	**515**
Nickel	1600	EPA Regional	**21.2**	**56.2**
Potassium			344 JQ	**1690**
Thallium	5.1	EPA Regional	1.6 JQ	**5**
Vanadium			**23.6**	**71.3**
Zinc	23000	EPA Regional	**19.3**	**67.4**
Volatile Organic Compounds (µg/kg)				
Acetone	61000000	EPA Regional	**18**	**56**
Benzene	30	MTCA-Method A	1.3 U	**250**
Carbon disulfide	670000	EPA Regional	1.3 U	**5.6**
Methylene chloride	20	MTCA-Method A	1.3 U	**2.4**
Toluene	7000	MTCA-Method A	1.3 U	**2.9**
Trichlorofluoromethane	800000	EPA Regional	1.3 U	**4.5**

Note: Bold type indicates the sample result is above the instrument detection limit.
Highlighted cells indicate the sample result exceeds its analyte-specific screening criteria.

Key:

bgs = below ground surface.
CLP = Contract Laboratory Program.
EPA = United States Environmental Protection Agency.
ID = Identification.
J = The analyte was positively identified. The associated numerical result is an estimate.
µg/kg = micrograms per kilogram.
mg/kg = milligrams per kilogram.
Q = Detected concetnration is below the method reporting limit/contract Required Quantitation Limit, but is above the method quantitation limit.
U = The analyte was not detected at or above the reported result.

BREMERTON-012173

Table B-12 Subsurface Soil Samples (40 to 45 feet bgs) Analytical Results Summary

EPA Sample ID CLP Sample ID Station Location Description	Screening Criteria	Source of Screening Criteria	08204465 J8K81 SP03SB45 Sesko Property
Semivolatile Organic Compounds (µg/kg)			
Bis(2-ethylhexyl)phthalate	35000	EPA Regional	**100**
Naphthalene	3900	EPA Regional	**78**
Phenol	18000000	EPA Regional	**77**
Target Analyte List Metals (mg/kg)			
Aluminum			**8430**
Arsenic	0.39	EPA Regional	**0.62**
Barium	15000	EPA Regional	**31.3**
Calcium			**3740**
Chromium	280	EPA Regional	**21.2 J**
Cobalt			**6.4**
Copper	3100	EPA Regional	**12.9**
Iron			**13600**
Magnesium			**4820**
Manganese			**235**
Nickel	1600	EPA Regional	**31.7**
Vanadium			**29.9**
Zinc	23000	EPA Regional	**33**
Volatile Organic Compounds (µg/kg)			
Benzene	30	MTCA-Method A	**10**
Chloroform	300	EPA Regional	**44**

Note: Bold type indicates the sample result is above the instrument detection limit.
Highlighted cells indicate the sample result exceeds its analyte-specific screening criteria.

Key:

bgs = below ground surface.
CLP = Contract Laboratory Program.
EPA = United States Environmental Protection Agency.
ID = Identification.
J = The analyte was positively identified. The associated numerical result is an estimate.
µg/kg = micrograms per kilogram.
mg/kg = milligrams per kilogram.

Table B-13 Groundwater Samples Analytical Results Summary

EPA Sample ID CLP Sample ID Station Location Description	Screening Criteria	Source of Screening Criteria	08204401 J8K22 MP01GW	08204415 J8K36 MP03GW McConkey Property	08204422 J8K43 MP04GW	08204432 J8K53 SP01GW	08204439 J8K60 SP02GW Sesko Property	08204446 J8K67 SP03GW
Semivolatile Organic Compounds (µg/L)								
1,1'-Biphenyl			0.5 U	NA	0.5 U	0.5 U	0.5 U	**6.3**
1,2,4-Trimethylbenzene			0.5 U	NA	0.5 U	0.5 UJ	0.5 U	**16**
1,3,5-Trimethylbenzene	12	EPA Regional	0.5 U	NA	0.5 U	0.5 UJ	0.5 U	**98 J**
2,4-Dimethylphenol	730	EPA Regional	0.5 U	NA	0.5 U	0.5 U	0.5 U	**32**
2-Methylnaphthalene			**0.23**	NA	**0.35**	**0.11**	**0.13**	**170 J**
4-Methylphenol			0.5 U	NA	0.5 U	0.5 U	0.5 U	**2.3**
Acenaphthene	2200	EPA Regional	0.5 U	NA	**4.9 J**	0.05 U	0.05 U	**38**
Acenaphthylene			0.05 U	NA	**5.4 J**	**0.089**	0.05 U	**4.3**
Acetophenone			0.5 U	NA	0.5 U	0.5 U	0.5 U	**3.8**
Anthracene	11000	EPA Regional	**0.063**	NA	**0.4**	**0.04 J**	0.05 U	**2.9**
Benzo(a)anthracene	0.029	EPA Regional	0.05 U	NA	0.05 U	**0.66**	0.05 U	**0.56**
Benzo(a)pyrene	0.0029	EPA Regional	0.05 U	NA	0.05 U	**1.1**	0.05 U	**0.25 J**
Benzo(b)fluoranthene	0.029	EPA Regional	0.05 U	NA	0.05 U	**0.59**	0.05 U	**0.15 J**
Benzo(g,h,i)perylene			**0.072**	NA	0.05 U	**0.82**	0.05 U	**0.12 J**
Benzo(k)fluoranthene	0.29	EPA Regional	0.05 U	NA	0.05 U	**0.7**	0.05 U	**0.16 J**
Bis(2-ethylhexyl)phthalate	4.8	EPA Regional	0.52 U	NA	0.5 JQ	**0.49 J**	0.33 JQ	**0.78**
Butylbenzylphthalate	35	EPA Regional	0.5 U	NA	0.5 U	0.34 JQ	0.33 JQ	**1**
Caprolactam			**6.3 J**	NA	**0.71 J**	0.48 JQ	0.5 U	0.5 U
Carbazole			0.5 U	NA	**1.3 J**	0.5 U	0.5 U	**24**
Chrysene	2.9	EPA Regional	**0.068**	NA	0.5 U	**1.1**	0.05 U	**0.92**
Dibenzo(a,h)anthracene	0.0029	EPA Regional	0.05 U	NA	0.05 U	**0.11**	0.5 U	0.031 JQ
Dibenzofuran			0.5 U	NA	0.29 JQ	0.5 U	0.5 U	**1.1**
Diethylphthalate	29000	EPA Regional	0.5 U	NA	0.5 U	0.34 JQ	0.5 U	0.41 JQ
Fluoranthene	1500	EPA Regional	**0.12**	NA	**0.26**	**0.81**	0.05 U	**3.7**
Fluorene	1500	EPA Regional	**0.067**	NA	**0.25**	0.05 U	0.05 U	**6.1**
Indeno(1,2,3-cd)pyrene	0.029	EPA Regional	0.05 U	NA	0.05 U	**0.4**	0.05 U	**0.09 J**
Phenanthrene			**0.16**	NA	0.05 U	0.33 JQ	0.05 U	**6.7**
Phenol	11000	EPA Regional	0.5 U	NA	0.5 U	0.5 U	0.05 U	**33**
Pyrene	1100	EPA Regional	**0.19**	NA	**0.36**	**1.1**	0.05 U	**1.6**
Target Analyte List Metals (mg/L)								
Arsenic	0.045	EPA Regional	**1.7**	**0.39**	**4.1**	**1.1**	**0.63**	**0.9**
Barium	2000	EPA Regional	**953**	**5840**	**174**	**2370**	**35.7**	**3140**
Beryllium			**2.6**	**13.6**	0.37 JQ	**6.4**	1 U	**7.6**
Cadmium	5	EPA Regional	0.9 JQ	**2**	0.16 JQ	**1.8**	0.05 JQ	**3.9**
Chromium	50	EPA Regional	**304**	**1090**	**69.6**	**845**	**2.4**	**1670**
Cobalt			**23 J**	**89.5**	**8.3 J**	**41.7 J**	**1.4 J**	**23.6 J**
Copper	1300	EPA Regional	**44.8 J**	**293**	**32 J**	**59.8 J**	1.9 JQ	**111 J**
Lead	15	EPA Regional	**43.2 J**	**179**	**8 J**	**132 J**	0.44 JQ	**268 J**
Manganese			**6580**	**8840**	**3020**	**12400**	**98.1**	**25600**
Nickel			**96.1 J**	**458**	**38.2 J**	**106 J**	**5.2 J**	**125 J**

BREMERTON-012175

Table B-13 Groundwater Samples Analytical Results Summary

EPA Sample ID CLP Sample ID Station Location Description	Screening Criteria	Source of Screening Criteria	08204401 J8K22 MP01GW	08204415 J8K36 MP03GW McConkey Property	08204422 J8K43 MP04GW	08204432 J8K53 SP01GW	08204439 J8K60 SP02GW Sesko Property	08204446 J8K67 SP03GW
Selenium	50	Washington MCL	1.4 JQ	2.9 JQ	5 UJ	2.9 JQ	5 UJ	**5.5 J**
Silver	100	EPA Regional	0.26 JQ	0.72 JQ	0.07 JQ	0.7 JQ	1 UJ	**1.4 J**
Thallium			**1**	**1.7**	0.26 JQ	0.94 JQ	1 U	0.82 JQ
Vanadium			**454**	**926**	**78.2**	**717**	3.7 JQ	**714**
Zinc	5000	EPA Regional	**72 J**	**417**	37.2 U	**126 J**	4.5 U	**153 J**
Total Petroleum Hydrocarbons (mg/L)								
Diesel Range Organics	0.5	EPA Regional	**0.38 J**	**0.17 J**	**0.51 J**	0.25 UJ	0.25 U	**5.5 J**
Volatile Organic Compounds (µg/L)								
Acetone	22000	EPA Regional	3.9 JQ	3.9 JQ	5 U	5 UJ	5 U	500 UJ
Benzene	0.41	EPA Regional	**5.4 J**	0.25 U	**70**	0.35 UJ	0.35 U	**3100 J**
Cyclohexane			0.25 U	0.25 U	**0.38**	0.25 U	0.25 U	25 U
Ethylbenzene	1.5	EPA Regional	0.25 U	0.25 U	**26**	0.25 UJ	0.25 U	190 JQ
Isopropylbenzene			0.25 U	0.25 U	**3**	0.25 UJ	0.25 U	22 JQ
Naphthalene	0.14	EPA Regional	**0.45**	0.25 UJ	**2.3**	0.25 UJ	0.25 UJ	**1800**
o-Xylene	1400	EPA Regional	0.25 U	0.25 U	**5.8**	0.25 UJ	0.25 U	**640 J**
Toluene	1000	MTCA-Method A	0.25 U	0.25 U	**1.5**	0.25 UJ	0.25 U	**58 J**
Trichloroethene	1.7	EPA Regional	0.25 U	0.25 U	0.25 U	**0.31 J**	**0.49 J**	25 UJ

Note: Bold type indicates the sample result is above the instrument detection limit.
Highlighted cells indicate the sample result exceeds its analyte-specific screening criteria.

Key:

CLP = Contract Laboratory Program.
EPA = United States Environmental Protection Agency.
ID = Identification.
J = The analyte was positively identified. The associated numerical result is an estimate.
µg/L = micrograms per liter.
mg/L = milligrams per liter.
MCL = Maximum Contaminant Levels
NA = The analyte was not analyzed for.
Q = Detected concetnration is below the method reporting limit/contract Required Quantitation Limit, but is above the method quantitation limit.
U = The analyte was not detected at or above the reported result.

Table B-14 Sediment Samples Analytical Results Summary

EPA Sample ID CLP Sample ID Station Location Description	Screening Criteria	Source of Screening Criteria	08204458 J8K74 WN01SD	08204459 J8K75 WN02SD	08204460 J8K76 WN03SD	08204461 J8K77 WN04SD	08204462 J8K78 WN05SD
					Washington Narrows		
Semivolatile Organic Compounds (µg/kg)							
1,1'-Biphenyl			**110**	**71**	**90**	**60**	25 U
1,2,4-Trimethylbenzene			**18 J**	26 U	27 U	15 JQ	25 U
2-Methylnaphthalene	64	SQuiRT	**690**	**390**	**370**	**210**	19
4-Methylphenol	670	SQS	25 U	17 JQ	**17 J**	25 U	25 U
Acenaphthene	130	SQuiRT	**360**	**73**	**240**	**97**	**15**
Acenaphthylene	71	SQuiRT	**1100**	**1500**	**1700**	**1300**	**48**
Acetone	61000000	SQS	6.6 U	9 U	**28**	6.8 U	7.1 U
Anthracene	280	SQuiRT	**830**	**1300**	**2300**	**1700**	**34**
Benzaldehyde			25 U	26 U	**38**	25 U	19 JQ
Benzo(a)anthracene	960	SQuiRT	**3200**	**3200**	**3000**	**5600**	**160**
Benzo(a)pyrene	1100	SQuiRT	**3600**	**3700**	**3400**	**6300**	**260**
Benzo(b)fluoranthene	1800	SQuiRT	**2000**	**2000**	**3100**	**3400**	**130**
Benzo(g,h,i)perylene	670	SQS	**2100**	**2700**	**3000**	**3800**	**190**
Benzo(k)fluoranthene	1800	SQuiRT	**2200**	**2600**	**1300**	**3600**	**160**
Benzo(b + k)fluoranthene	3200	SQS	**4200**	**4600**	**4400**	**7000**	**290**
Bis(2-ethylhexyl)phthalate	1300	SQS	25 U	26 U	27 U	25 U	**42**
Carbazole			**110**	**100**	**110**	**69**	25 U
Chrysene	950	SQuiRT	**3200**	**3500**	**3300**	**6000**	**170**
Dibenzo(a,h)anthracene	230	SQS	**600**	**920**	**870**	**860**	**47**
Dibenzofuran	110	SQuiRT	**74**	**58**	**71**	**69**	25 U
Ethylbenzene	4	SQuiRT	**2.3**	1.8 U	1.6 U	1.4 U	1.4 U
Fluoranthene	1300	SQuiRT	**6600**	**6000**	**6500**	**15000 J**	**400**
Fluorene	120	SQuiRT	**450**	**10000**	**700**	**780**	**13**
Indeno(1,2,3-cd)pyrene	600	SQS	**2000**	**2500**	**3100**	**3200**	**150**
Naphthalene	230	SQuiRT	**1300**	1.1 JQ	**0.95 J**	1.4 U	1.4 U
o-Xylene	430000	SQS	**5.7**	1.8 U	1.6 U	1.4 U	1.4 U
Pentachlorophenol	17	SQuiRT	24 UJ	25 UJ	26 UJ	24 UJ	**34**
Phenanthrene	660	SQuiRT	**2200**	**1900**	**2900**	**8100 J**	**140**
Pyrene	2400	SQuiRT	**9100**	**7100**	**7500**	**18000**	**500**
Target Analyte List Metals (mg/kg)							
Aluminum			**9030 J**	**7130 J**	**7640 J**	**6290 J**	**6020 J**
Antimony	9.3	SQuiRT	3.9 JQ	R	R	R	R
Arsenic	35	SQuiRT	**2.3**	**2.3**	**5.1**	**2.6**	**1.5**
Barium	48	SQuiRT	19.1 JQ	**30.2 J**	**47 J**	16.6 JQ	13.3 JQ

Table B-14 Sediment Samples Analytical Results Summary

EPA Sample ID CLP Sample ID Station Location Description	Screening Criteria	Source of Screening Criteria	08204458 J8K74 WN01SD	08204459 J8K75 WN02SD	08204460 J8K76 WN03SD	08204461 J8K77 WN04SD	08204462 J8K78 WN05SD
			Washington Narrows				
Beryllium			**2.7**	**2.1**	**2.3**	**2**	**1.9**
Calcium			**33600 J**	**5530 J**	**17200 J**	**6140 J**	**2390 J**
Chromium	62	SQuiRT	**21.2 J**	**19.3 J**	**20.2 J**	**17.5 J**	**16.6 J**
Cobalt			3.7 JQ	3.9 JQ	**26.3**	3.5 JQ	3 JQ
Copper	390	SQS	**26.7**	**22.1**	**71.7**	**13.5**	**8.6**
Iron			**12500 J**	**14000 J**	**15900 J**	**11400 J**	**9730 J**
Lead	400	SQuiRT	**16.1 J**	**19.4 J**	**30 J**	**10.1 J**	**8.9 J**
Magnesium			**4210**	**4640**	**3970**	**4110**	**3350**
Manganese	260	SQuiRT	**168**	**180**	**166**	**135**	**174**
Mercury	0.41	SQS	0.0278 JQ	0.028 JQ	0.021 JQ	0.021 JQ	**0.1**
Nickel	110	SQuiRT	**26.7 J**	**33.5 J**	52.6 JQ	**25.3 J**	**21.4 J**
Potassium			**603 J**	**563**	494 JQ	497 JQ	415 JQ
Sodium			**1390**	**996**	**1560**	**1930**	**605**
Thallium			2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vanadium			**29.8**	**27.8**	**36.5**	**25**	**21.6**
Zinc	410	SQS	**79.9 J**	**57.4 J**	**78.9 J**	**36.5 J**	**23.2 J**
Volatile Organic Compounds (µg/kg)							
Benzene	30	SQS	**7.4**	1.8 U	1.5 JQ	1.4 U	1.4 U

Note: Bold type indicates the sample result is above the instrument detection limit.
Highlighted cells indicate the sample result exceeds its analyte-specific screening criteria.

Key:

CLP = Contract Laboratory Program.
EPA = United States Environmental Protection Agency.
ID = Identification.
J = The analyte was positively identified. The associated numerical result is an estimate.
µg/L = micrograms per liter.
mg/L = milligrams per liter.
NA = The analyte was not analyzed for.
Q = Detected concetnration is below the method reporting limit/contract Required Quantitation Limit, but is above the method quantitation limit.
SQS = Washington State Sediment Quality Standard
SQuiRT = NOAA Screening Quick Reference Tables
U = The analyte was not detected at or above the reported result.

C Sample Plan Alteration Form

SAMPLE PLAN ALTERATION FORM

RECEIVED
JUL 06 2009
Environmental
Cleanup Office

Project Name and Number: Bremerton Gasworks

Technical Direction Document Number: 07-01-0008

Material to be sampled: Subsurface soil, groundwater, sediments

Measurement Parameters: Not applicable.

Standard Procedure for Field Collection & Laboratory Analysis (cite references): Not applicable

Reason for Change in Field Procedure of Analytical Variation: During the sampling event, obvious contamination was noted during drilling at location MP04.

Variation from Field or Analytical Procedure: Collection of three additional soil samples from this location. Additional sample depths were added at 35 feet below ground surface (bgs), and 40 feet bgs. Additionally, no sample was collected from the 30 foot depth at this location due to a lack sufficient sample volume. START contacted the EPA TM on May 13, 2008 regarding the change to the sample plan; this telephone call was not noted in the log book.

Special Equipment, Materials, or Personnel Required: Additional sampling supplies, submittal of additional samples at KAP laboratories (a Contract Laboratory Program laboratory), and Manchester Environmental Laboratory.

Contact:	Approved Signature	Date
Initiator:	Russ Robbert	6/15/2009
START PL:		6/15/2009
EPA TM:	Connie LaBar	7/2/09
EPA QA Officer:	Bob Pelletier for Ginna Grepo-Grove	7/2/09

SAMPLE PLAN ALTERATION FORM

Project Name and Number: Bremerton Gasworks

Technical Direction Document Number: 07-01-0008

Material to be sampled: Subsurface soil, groundwater, sediments

Measurement Parameters: Not applicable.

Standard Procedure for Field Collection & Laboratory Analysis (cite references): Not applicable

Reason for Change in Field Procedure of Analytical Variation: During the sampling event, obvious contamination was noted during drilling at location MP01.

Variation from Field or Analytical Procedure: Collection of one additional soil sample from this location at a depth of 35 feet below ground surface. START contacted the EPA TM on May 14, 2008 regarding the change to the sample plan; this telephone call was not noted in the log book.

Special Equipment, Materials, or Personnel Required: Additional sampling supplies, submittal of additional samples at KAP laboratories (a Contract Laboratory Program laboratory), and Manchester Environmental Laboratory.

Contact:	Approved Signature	Date
Initiator:	Russ Roberts	6/15/2009
START PL:	[illegible]	6/15/2009
EPA TM:	[signature]	7/2/09
EPA QA Officer:	[signature] for Gonna Carapo Crave	7/2/09

SAMPLE PLAN ALTERATION FORM

Project Name and Number: Bremerton Gasworks

Technical Direction Document Number: 07-01-0008

Material to be sampled: Subsurface soil, groundwater, sediments

Measurement Parameters: Not applicable.

Standard Procedure for Field Collection & Laboratory Analysis (cite references): Not applicable

Reason for Change in Field Procedure of Analytical Variation: During the sampling event, obvious contamination was noted during drilling at location SP03.

Variation from Field or Analytical Procedure: Collection of three additional soil samples this location. Additional sample depths were added at 35 feet below ground surface (bgs), 40 feet bgs, and 45 feet bgs. START contacted the EPA TM on May 12, 2008 regarding the change to the sample plan; this telephone call was not noted in the log book.

Special Equipment, Materials, or Personnel Required: Additional sampling supplies, submittal of additional samples at KAP laboratories (a Contract Laboratory Program laboratory), and Manchester Environmental Laboratory.

Contact:	Approved Signature	Date
Initiator:	Bruce Rabbert	6/15/2009
START PL:		6/15/2009
EPA TM:	Tom LaBar	7/2/09
EPA QA Officer:	For Ginna Grepo-Grove	7/2/09

D

Global Positioning System Coordinates

BREMERTON-012183

Appendix D Global Positioning System Coordinates

Sample Number	Sample Description	Sample Date	Lattitude	Longitude	Elevation (feet)
SP02	Sesko Property 02	1/20/2009	47.578034	-122.64229	10.441
SP03	Sesko Property 03	1/20/2009	47.57786	-122.642296	10.983
SP01	Sesko Property 01	1/20/2009	47.578091	-122.642616	10.801
MP01	McConkey Property 01	1/20/2009	47.578011	-122.643144	12.161
MP04	McConkey Property 04	1/20/2009	47.578426	-122.642918	12.384
MP02	McConkey Property 02	1/20/2009	47.577887	-122.643409	15.859
MP03	McConkey Property 03	1/20/2009	47.578042	-122.643465	14.231

BREMERTON-012184

E

Borehole Reports

BREMERTON-012185

DRILLING LOG OF WELL/BORING NO. MP-01

Project/Location: Bremerton Gas Works / Bremerton, WA
Boring Location: Between welding shop and granite countertop workshop
Date Started/Finished: 5/14/2008 - 5/14/2008
Drilling Contractor: Boart Longyear - John Bennett
Drill Method: Hollow Stem Auger/1.5' splitspoon

Total Depth of Hole (feet BGS): 35
Ground Elevation (feet above N/A): ____
Inner Casing Elevation (TOC): ____
Groundwater Depth (feet BGS):
First Encountered: ▽ ____ Final: ▼ ____
Geologist: Courtney Funk

ELEVATION / DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	SAMPLE INTERVAL	PID Readings (PPM)	RECOVERY (feet)	LEL (%)	Blow Counts	COMMENTS
Ground Surface Elevation			ground surface (gs)						Reviewed By:
1	No well installed. Borehole was plugged with hydrated sodium-bentonite chips (3/8-inch).		Auger down to 3.5 feet below ground surface (bgs).		0	0.9			
3.5									
4.0			Dark brown SAND with concrete fragments from blacktop, dry, no odor.		0	0.5			Sample MP01SB05 was collected.
8.5			Light brown fine to medium SAND, some silt, dry, no odor. Auger down to 8.5 feet bgs.		0	1.5			Sample MP01SB10 was collected.
13.5			Light brown-grey fine to medium SAND, some large and small gravel, trace silt, dry, no odor. Auger down to 13.5 feet bgs.		0	1.5			Sample MP01SB15 was collected.
18.5			Light brown-grey fine to medium SAND, dry, no odor. Auger down to 18.5 feet bgs.		0	1.5			Sample MP01SB20 was collected.
23.5			Light brown-grey fine to medium SAND, dry, no odor. Auger down to 23.5 feet bgs.		0	1.5			Sample MP01SB25 was collected.
28.5			Light brown-grey fine to medium SAND, some coarse grains, trace silt, moist, no odor. Auger down to 28.5 feet bgs.		0	1.5			Sample MP01SB30 was collected.
33.5			Grey silty SAND, some small gravel, trace large gravel, moist, no odor. Auger down to 33.5 feet bgs.			1.5			Sample MP01SB35 was collected.
34.0			Light brown-grey CLAY, medium plasticity, dry, no odor.						
35.0			Light brown-grey CLAY with reddish brown well graded sand, oxidation present, transitional interval, dry no odor.						
45			END boring at 35' - no oil material or odor observed						

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PROJECT NAME: Bremerton Gas Works
WELL NO.: MP-01

WELL_LOG BREMERTON.GPJ 11-25-08

DRILLING LOG OF WELL/BORING NO. MP-02

Project/Location: Bremerton Gas Works / Bremerton, WA
Boring Location: West of N. McConkey prop near gate
Date Started/Finished: 5/19/2008 - 5/19/2008
Drilling Contractor: Dave Puckett
Drill Method: Hollow Stem Auger/1.5' splitspoon

Total Depth of Hole (feet BGS): 30
Ground Elevation (feet above N/A): ____
Inner Casing Elevation (TOC): ____
Groundwater Depth (feet BGS):
First Encountered: ▽ ____ Final: ▼ ____
Geologist: Courtney Funk

ELEVATION / DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	SAMPLE INTERVAL	PID Readings (PPM)	RECOVERY (feet)	LEL (%)	Blow Counts	COMMENTS (Reviewed By:)
Ground Surface Elevation			*ground surface (gs)*						
1–3	*No well installed. Borehole was plugged with hydrated sodium-bentonite chips (3/8-inch).*		Auger down to 3.5' bgs			1.5		0	
3.5									
4.0			Dark brown fine SAND, some silt, large and small gravel.						Sample MP02SB05 was collected.
4–8			Light brown fine SAND, trace small gravel, dry. Blow counts: 2-5-7.			1.5		0	
8.5			Auger down to 8.5 feet below ground surface.						Sample MP02SB10 was collected.
9–13			Light brown/grey fine to medium SAND, some small gravel, trace large gravel, trace silt, dry, no odor.			1.5		0	
13.5			Blow counts: 3-9-13. Auger down to 13.5 feet bgs.			1.5		0	Sample MP02SB15 was collected.
14–18			Light brown/grey fine to medium SAND, trace silt, dry, no odor. Blow counts: 7-19-31. Auger down to						
18.5			18.5 feet bgs.			1.5		0	Sample MP02SB20 was collected.
19–23			Light brown/grey fine to medium SAND, trace silt, dry, no odor. Blow counts: 9-12-22. Auger down to 23.5 feet bgs.			1.5		0	
23.5									Sample MP02SB25 was collected.
24–28			Light brown/grey fine to medium SAND, trace silt, dry, no odor. Blow counts: 9-11-14. Auger down to 28.5 feet bgs.			1.5		0	
28.5						1.5		0	
29–30			Light brown/grey fine to medium SAND, trace silt, dry, no odor. Blow counts: 8-18-21.						Sample MP02SB30 was collected.
30.0			End boring at 30 feet bgs- no water encountered.						
31–40									

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PROJECT NAME: Bremerton Gas Works
WELL NO.: MP-02

WELL_LOG BREMERTON.GPJ 11-25-08

DRILLING LOG OF WELL/BORING NO. MP-03

Project/Location: Bremerton Gas Works / Bremerton, WA
Boring Location: West of Thomas Avenue, inside fence
Date Started/Finished: 5/19/2008 - 5/19/2008
Drilling Contractor: Dave Puckett
Drill Method: Hollow Stem Auger/1.5' splitspoon

Total Depth of Hole (feet BGS): 20
Ground Elevation (feet above N/A):
Inner Casing Elevation (TOC):
Groundwater Depth (feet BGS):
First Encountered: ▽ 18 Final: ▼
Geologist: Courtney Funk

ELEVATION / DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	SAMPLE INTERVAL	PID Readings (PPM)	RECOVERY (feet)	LEL (%)	Blow Counts	COMMENTS
Ground Surface Elevation			ground surface (gs)						Reviewed By:
1–3	*No well installed. Borehole was plugged with hydrated sodium-bentonite chips (3/8-inch).*		Auger down to 3.5 feet below ground surface (bgs).			1.5		0	
3.5									
4–7			Light brown grey SILT, some clay, some fine sand, dry, trace very small gravel. Auger down to 8.5 feet bgs. FID: 0.0 Blow counts: 5-6-9			0		0	Sample MP03SB05 was collected.
8.5									
9–12			Grey/brown SILT with some clay, trace fine sand, trace small gravel, low plasticity, dry FID: 0.0 Blow counts: 10-16-12			1.5		0	Sample MP03SB10 was collected.
10.0									
13–15						0		0	
16.5			SILT, no recovery, refusal, unable to salvage a sample for SB15, will continue to 18.5 - 20						
16–18						1.5			
18	▽								
19–20			Light brown/grey sorted fine medium coarse SAND, trace silt, trace gravel, wet, water at 18' bgs FID: 0.0 Blow counts: 5-7-13						Sample MP03SB20 was collected.
20.0			END of boring at 20' bgs						
21–25									

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PROJECT NAME: Bremerton Gas Works
WELL NO.: MP-03

WELL_LOG BREMERTON.GPJ 11-25-08

DRILLING LOG OF WELL/BORING NO. MP-04

Project/Location: Bremerton Gas Works / Bremerton, WA
Boring Location: South of Port Washington Narrows, west of Sesko Prop
Date Started/Finished: 5/13/2008 - 5/13/2008
Drilling Contractor: Boart Longyear - John Bennett
Drill Method: Hollow Stem Auger/1.5' splitspoon

Total Depth of Hole (feet BGS): 40
Ground Elevation (feet above N/A):
Inner Casing Elevation (TOC):
Groundwater Depth (feet BGS):
First Encountered: ▽ 31 Final: ▼ 31.35
Geologist: Courtney Funk

ELEVATION / DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	SAMPLE INTERVAL	PID Readings (PPM)	RECOVERY (feet)	LEL (%)	Blow Counts	COMMENTS
Ground Surface Elevation	Heavy Gauged Steel Protective Casing		ground surface (gs)						Reviewed By:
	Concrete Cement Base.		SILT. Auger down to 3.5 feet below ground surface (bgs).			1.5		0	
3.5			Grey sandy SILT, some small gravel, trace clay, dry.			1.5		0	Sample MP04SB05 was collected.
4.3			Light brown fine SAND, some silt, dry, slight odor. Auger down to 8.5 bgs.			1.5		0	Sample MP04SB10 was collected.
8.5	Hydrated Sodium-Bentonite Seal with 3/8" Chips.		Light brown fine to medium SAND, some silt, dry, no odor. Auger down to 13.5 bgs.			1.5		0	Sample MP04SB15 was collected.
13.5	2.0" ID, Schedule 40, PVC Riser.		Light brown and grey SILT, some sand, dry, no odor. Auger down to 18.5 bgs.			4		0	Sample MP04SB20 was collected.
18.5			Light brown fine to medium SAND, trace silt, dry, no odor. Auger down to 23.5 bgs.			4		0	
23.5			GRAVEL. Refusal - no recovery due to a mixture of small and large gravel and cobbles.			4		0	Sample MP04SB25 was collected.
25.0 / 25.8 / 26.5			Reddish brown SILT with some sand and some small and large gravel, dry, no odor.			1		0	
	20/40 Mesh Silica Sand Filter Pack 2.0" ID, Schedule 40, PVC Screen (0.010" Slots).		light brown-grey CLAY, trace silt, dry, no odor, medium plasticity.			1.5		0	Sample MP04SB35 was collected.
33.5			GRAVEL. Refusal - no recovery due to a large amount of cobbles at this interval.			1.5		0	Sample MP04SB45 was collected.
38.5 / 40.0			Grey well graded fine to medium to coarse SAND, trace silt, trace gravel, moist. Auger down to 40 feet bgs.						
			Grey well graded fine to medium to coarse SAND, trace silt, trace clay, saturated, no odor						
			END boring at 40 feet bgs.						

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PROJECT NAME: Bremerton Gas Works
WELL NO.: MP-04

WELL_LOG BREMERTON.GPJ 11-25-08

DRILLING LOG OF WELL/BORING NO. SP-01

Project/Location: Bremerton Gas Works / Bremerton, WA
Boring Location: West of Pennsylvania Avenue, southeast of MW-04
Date Started/Finished: 5/12/2008 - 5/12/2008
Drilling Contractor: Boart Longyear - John Bennett
Drill Method: Hollow Stem Auger/1.5' splitspoon

Total Depth of Hole (feet BGS): 20
Ground Elevation (feet above N/A):
Inner Casing Elevation (TOC):
Groundwater Depth (feet BGS):
First Encountered: ▽ 17 Final: ▼
Geologist: Courtney Funk

ELEVATION / DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	SAMPLE INTERVAL	PID Readings (PPM)	RECOVERY (feet)	LEL (%)	Blow Counts	COMMENTS
Ground Surface Elevation			*ground surface (gs)*						Reviewed By:
1	*No well installed. Borehole was plugged with hydrated sodium-bentonite chips (3/8-inch).*		SAND. Auger down to 3.5 feet below ground surface (bgs).			1.5			
2									
3									
3.5									
3.8			Light brown and grey well graded SAND, dry, no odor present.						Sample SP01SB05 was collected.
4									
4.5			Light brown and grey very fine to fine SAND, some silt, trace gravel (small), dry. FID: 0.0, Blow counts:3-9-13.						
5									
6			Light brown/grey CLAY medium plasticity, dry. Auger down to 8.5 feet bgs.			0			
7									
8									
8.5									
9			Light brown/grey CLAY with predominant red brown sand lenses with oxidation present, trace silt, medium plasticity, dry. FID: 0.0, Blow counts:9-13-15.						Sample SP01SB105 was collected.
9.0									
10						1.5			
11			Light brown/grey well graded SAND, dry. Auger down to 13.5 feet bgs.						
12									

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PROJECT NAME: Bremerton Gas Works
WELL NO.: SP-01

DRILLING LOG OF WELL/BORING NO. SP-01

Project/Location: Bremerton Gas Works / Bremerton, WA

Total Depth of Hole (feet BGS): 20

ELEVATION / DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	SAMPLE INTERVAL	PID Readings (PPM)	RECOVERY (feet)	LEL (%)	Blow Counts	COMMENTS Reviewed By:
13			13.5						
14			Light brown/grey well graded SAND, wet. 14.3			1.5			Sample SP01SB15 was collected.
15			Light brown/grey CLAY with predominant reddish brown sand lenses (fine - medium), trace gravel, wet, low plasticity and oxidation present. FID: 0.0, Blow counts:19-49-57. Auger down to 18.5 feet bgs.						
16									
17	▽								
18			18.5			1.5			
19			Light brown/grey CLAY with predominant reddish brown sand lenses (fine - medium), wet, low plasticity and oxidation present. 19.3						Sample SP01SB20 was collected.
20			Light brown/grey CLAY, trace sand, wet, medium plasticity, cohensive. FID: 0.0, Blow counts:23-29-47. 20.0 End of boring at 20 feet bgs, no water encountered						
21									
22									
23									
24									
25									
26									
27									
28									

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PROJECT NAME: Bremerton Gas Works

WELL NO.: SP-01

WELL_LOG BREMERTON.GPJ 11-25-08

DRILLING LOG OF WELL/BORING NO. SP-02

Project/Location: Bremerton Gas Works / Bremerton, WA
Boring Location: West of Pennsylvania Avenue, northeast of MW-04
Date Started/Finished: 5/12/2008 - 5/12/2008
Drilling Contractor: Boart Longyear - John Bennett
Drill Method: Hollow Stem Auger/1.5' splitspoon

Total Depth of Hole (feet BGS): 35
Ground Elevation (feet above N/A):
Inner Casing Elevation (TOC):
Groundwater Depth (feet BGS):
First Encountered: ▽ 28.5 Final: ▼ 29.3
Geologist: Courtney Funk

ELEVATION / DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	SAMPLE INTERVAL	PID Readings (PPM)	RECOVERY (feet)	LEL (%)	Blow Counts	COMMENTS
Ground Surface Elevation	Heavy Gauged Steel Protective Casing		ground surface (gs)						Reviewed By:
1–2	Concrete Cement Base.		Light brown very fine to fine SAND, some silt, some gravel, root material present, dry. FID:0.0, Blow counts:1-1-1. Auger down to 10 feet below ground surface (bgs).			1.5		0	
3–7						1.5		0	Sample SP02SB05 was collected.
8–10	Hydrated Sodium-Bentonite Seal with 3/8" Chips.		10.0			1.5		0	Sample SP02SB10 was collected.
11–12			12.5 Light brown-grey SILT, some sand, some clay, trace gravel, trace brick fragments, dry. FID:0.0, Blow counts:8-11-14.						
13–14			14.0			1.5		0	Sample SP02SB15 was collected.
15–18	2.0" ID, Schedule 40, PVC Riser.		Light brown-grey SILT, some sand, some clay, dry. FID:0.0, Blow counts:5-8-19. Auger down to 18.5 feet bgs.			1.5		0	
19			19.0						Sample SP02SB20 was collected.
20–22			Light brown-grey SILT, some sand, some clay, dry.			1.5		0	
23			23.5 Grey CLAY, trace silt, dry, medium plasticity. FID:0.0, Blow counts:8-13-50. Auger down to 23.5 feet bgs.						Sample SP02SB25 was collected.
24–26	20/40 Mesh Silica Sand Filter Pack					1.5		0	
27–28			Grey medium to fine SAND, wet, trace brick fragments. FID:0.0, Blow counts:25-44-54. Auger down to 28.5 feet bgs.			1.5		0	
29			28.5 ▽▼						Sample SP02SB30 was collected.
30–32			Grey medium to fine SAND, wet, no odor, water encountered at 28.5 feet bgs. FID:0.0, Blow counts:23-55. Auger to 35 feet bgs for well installation. no oil material or odors observed.			0		0	
33–35	2.0" ID, Schedule 40, PVC Screen (0.010" Slots).		35.0 END of boring at 35 feet bgs.			0		0	
36–45									

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PROJECT NAME: Bremerton Gas Works
WELL NO.: SP-02

WELL_LOG BREMERTON.GPJ 11-25-08

DRILLING LOG OF WELL/BORING NO. SP-03

Project/Location: Bremerton Gas Works / Bremerton, WA
Boring Location: South of Port Washington Narrows, east of N McConkey Prop
Date Started/Finished: 5/12/2008 - 5/12/2008
Drilling Contractor: Boart Longyear - John Bennett
Drill Method: Hollow Stem Auger/1.5' splitspoon

Total Depth of Hole (feet BGS): 45
Ground Elevation (feet above N/A):
Inner Casing Elevation (TOC):
Groundwater Depth (feet BGS):
First Encountered: ▽ 41 Final: ▼
Geologist: Courtney Funk

ELEVATION / DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	SAMPLE INTERVAL	PID Readings (PPM)	RECOVERY (feet)	LEL (%)	Blow Counts	COMMENTS
Ground Surface Elevation			*ground surface (gs)*						Reviewed By:
1–4	*No well installed. Borehole was plugged with hydrated sodium-bentonite chips (3/8-inch).*		Light brown-grey very fine to fine SAND, some silt, root material, some small gravel, dry.					0	
4			4.3						Sample SP03SB05 was collected.
5–6			5.0 Black coated SAND, coal fragments, oil materials, slight odor, dry. FID:138, Blow counts:5-3-2.			0.9		0	
7–8			Black coated SAND, coal fragments, oil materials, slight odor. 8.0 FID:25, Blow counts: 50 for 50.						
9–13			Black coated fine to medium SAND, some silt, wood fragments, coal fragments, large gravel, ash material, trace brick, staurated with oil material, moderate to strong odor. PID:348 ppm, FID:308, blow counts:2-2-2. Auger down to 13.5 feet below ground surface (bgs).			0.5		0	Sample SP03SB10 was collected.
13.5			13.5						
14			14.0 Grey very fine to fine SAND, some silt, moist, no visual oil material, slight odor.					0	Sample SP03SB15 was collected.
15–18			Grey CLAY with reddish brown sand lenses throughout, oxidation present, dry, moderate plasticity. FID:36, blow counts:6-6-6. Auger 18.5 down to 18.5 feet bgs			1.5		0	
19			19.0 Light brown-grey SILT, some clay, 19.5 trace silt						Sample SP03SB20 was collected.
20–23			Grey CLAY with reddish brown sand lenses, dry, medium plasticity. Light brown-grey SILT, some clay, trace sand. FID:0, blow counts:12-16-23. Auger down to 23.5 23.5 feet bgs.					0	
24			Grey CLAY, some silt, dry, medium						Sample SP03SB25 was collected.
25									

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PROJECT NAME: Bremerton Gas Works
WELL NO.: SP-03

WELL_LOG BREMERTON.GPJ 11-25-08

DRILLING LOG OF WELL/BORING NO. SP-03

Project/Location: Bremerton Gas Works / Bremerton, WA

Total Depth of Hole (feet BGS): 45

ELEVATION / DEPTH (feet)	WELL COMPLETION DIAGRAM	GRAPHIC LOG	SOIL/ROCK DESCRIPTION	SAMPLE INTERVAL	PID Readings (PPM)	RECOVERY (feet)	LEL (%)	Blow Counts	COMMENTS Reviewed By:
26			plasticity, slight odor. FID:11 ppm. Auger down to 28.5 feet bgs.			1.5		0	
28			28.5						
29			Grey CLAY, some silt, dry, medium plasticity. Auger down 33.5 feet bgs. FID:0, blow counts:9-14-18.			1.5		0	Sample SP03SB30 was collected.
33			33.5						
34			Grey CLAY, some silt, dry, medium plasticity, no odor. Auger down 38.5 feet bgs. FID:0, blow counts:9-17-24.			1.5		0	Sample SP03SB35 was collected.
38			38.5			1.5			Sample SP03SB40 was collected.
39			39.3 Grey CLAY with some sand, some silt, dry, med/low plasticity						
40			Grey CLAY, some silt, dry, medium plasticity. Auger down 43.5 feet bgs.						
41	▽								
43			43.5						
44			Dark grey SAND, well graded, wet slight odor, very slight staining.						Sample SP03SB45 was collected.
45			45.0 FID:0, Blow counts:23-50-5. END boring at 45 feet bgs.						
46–59									

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PROJECT NAME: Bremerton Gas Works

WELL NO.: SP-03

WELL_LOG BREMERTON.GPJ 11-25-08

F

Quality Assurance/Quality Control and Data Validation Memoranda

APPENDIX F

QA/QC data are necessary to determine precision and accuracy and to demonstrate the absence of interferences and/or contamination of sampling equipment, glassware and reagents. Specific QC requirements for laboratory analyses are incorporated in the *Contract Laboratory Program Statement of Work for Inorganic Analyses* (EPA 2007b) and *Contract Laboratory Program Statement of Work for Organic Analyses* (EPA 2007a). These QC requirements or equivalent requirements found in the analytical methods were followed for analytical work on the TBA. This section describes the QA/QC measures taken for the TBA and provides an evaluation of the usability of data presented in this report.

Data from the CLP laboratories and the Manchester Environmental Laboratory were reviewed and validated by EPA chemists. Data qualifiers were applied as necessary according to the following guidance:

- EPA (2004) *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*; and
- EPA (2008) *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*.

In the absence of other QC guidance, method- and/or SOP-specific QC limits were also utilized to apply qualifiers to the data.

Satisfaction of Data Quality Objectives

The following EPA (EPA 2000) guidance document was used to establish data quality objectives (DQOs) for this TBA:

- *Guidance for the Data Quality Objectives Process* (EPA QA/G-4), EPA/600/R-96/055.

The EPA TM determined that definitive data without error and bias determination would be used for the sampling and analyses conducted during the field activities. The data quality achieved during the field work produced sufficient data that met the DQOs stated in the SQAP (E & E 2008). A detailed discussion of accomplished TBA objectives is presented in the following sections.

QA/QC Samples

QA samples (rinsate and trip blanks) were collected, including three rinsate blanks and six trip blanks. Rinsate blank samples were collected at the required frequency of one per 20 samples collected with non-dedicated sampling equipment. Trip blank samples were collected at the required frequency of one per VOC or NWTPH-Gx sample cooler. QC samples included matrix spike/matrix spike duplicate (MS/MSD) samples for organic

analyses at a rate of one MS/MSD per 20 samples per matrix and MS/duplicate samples for inorganic analyses at a rate of one MS/duplicate per 20 samples per matrix.

Project-Specific Data Quality Objectives

The laboratory data were reviewed to ensure that DQOs for the project were met. The following describes the laboratories' abilities to meet project DQOs for precision, accuracy and completeness and the field team's ability to meet project DQOs for representativeness and comparability. The laboratories and the field team were able to meet DQOs for the project.

Precision

Precision measures the reproducibility of the sampling and analytical methodology. Laboratory and field precision is defined as the relative percent difference (RPD) between duplicate sample analyses. The laboratory duplicate samples or MS/MSD samples measure the precision of the analytical method. The RPD values were reviewed for all commercial laboratory samples. A total of 35 sample results (approximately 0.37% of the data) were qualified as estimated quantities (J or UJ) based on laboratory duplicate QC outliers. The DQO for precision of 90% was met.

Accuracy

Accuracy measures the reproducibility of the sampling and analytical methodology. Laboratory accuracy is defined as the surrogate spike percent recovery (%R) or the MS %Rs for all laboratory analyses. The surrogate %R values were reviewed for all appropriate sample analyses. A total of 229 sample results (approximately 2.4% of the data) were qualified as estimated quantities (J) based on surrogate results.

The MS %R values were reviewed for all MS/MSD analyses. A total of 94 sample results (approximately 0.98% of the data) were qualified as estimated quantities (J or UJ) and 39 results (approximately 0.41% of the data) were rejected (R) based on MS/MSD results. The DQO for accuracy of 90% was met.

Completeness

Data completeness is defined as the percentage of usable data (usable data divided by the total possible data). All laboratory data were reviewed for data validation and usability. A total of 39 results were rejected (approximately 0.41% of the data); therefore, the project DQO for completeness of 90% was met.

Representativeness

Data representativeness expresses the degree to which sample data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point or environmental condition. The number and selection of samples were determined in the field to account accurately for site variations and sample matrices. The DQO for representativeness of 90% was met.

Comparability
Comparability is a qualitative parameter expressing the confidence with which one data set can be compared to another. Data produced for this site followed applicable field sampling techniques and specific analytical methodology. The DQO for comparability of 90% was met.

Laboratory QA/QC Parameters
The laboratory data also were reviewed for holding times/temperatures, laboratory blank samples; field/trip blank samples, rinsate blank samples, serial dilution analyses, and internal standard analyses. These QA/QC parameters are summarized below. In general, the laboratory and field QA/QC parameters were considered acceptable.

Holding Times/Temperatures
All samples were analyzed within holding time limits. All samples were maintained within temperature QC limits.

Laboratory Blanks
All laboratory blanks met the frequency criteria. No potential contaminants of concern were detected in the laboratory blanks.

Rinsate Blanks
The water rinsate blanks were collected from a deionized water source. Three water rinsate blank samples were collected during the field event; therefore, meeting the frequency criteria of one per 20 samples collected with non-dedicated equipment. Antimony, benzo(g,h,i)perylene, bis(2-ethylhexyl)phthalate, chloroform, 2-methyl-naphthalene, naphthalene, phenanthrene, and zinc were detected in one or more rinsate blanks and resulted in sample qualifications. Sample results were qualified as not detected (U) if the associated sample result was less than five times the rinsate blank concentration, including antimony and zinc in samples MP04GW and SP02SW, naphthalene, bis(2-ethylhexyl)phthalate, phenanthrene, and benzo(g,h,i)perylene in sample MP01GW, naphthalene in samples MP01SB15, MP01SB20, MP01SB25, MP01SB30, MP01SB35, and MP04SB10, 2-methylnephthalene in sample MP01SB30, and phenanthrene in samples MP01SB35 and MP01SB10.

Trip Blanks
The water trip blanks were collected from a deionized water source. Six water trip blank samples were collected during the field event; therefore, meeting the frequency criteria of one per cooler per 20 NWTPH-GX or VOC samples. Chloroform, cis- and trans-1,3-dichloropropene, methylene chloride, and toluene were detected in one or more trip blanks. Sample results were qualified as not detected (U) if the associated sample result was less than five times the trip blank concentration, including toluene in sample MP03SB10 and chloroform in samples RS02WT, SP03SB30, and SP03SB40.

Serial Dilution

Serial dilution analyses were performed at a frequency of one per 20 samples per matrix, meeting QC frequency criteria. A total of 171 results (approximately 1.8% of the data) were qualified as estimated quantities (J or UJ) based on serial dilution outliers.

Internal Standard

Internal standard analyses were performed at the appropriate frequency for organic samples. A total of 112 results (approximately 1.2% of the data) were qualified as estimated quantities (J or UJ) based on internal standard outliers.

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MEMORANDUM

DATE: September 9, 2008

TO: Renee Nordeen, START-3 Project Manager, E & E, Seattle, WA

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Summary Check,**
Bremerton Gasworks Properties, Bremerton, Washington

REF: TDD: 07-01-0008 PAN: 002233.0178.01BR

The data summary check of soil and water samples collected from the Bremerton Gasworks Properties site located in Bremerton, Washington, has been completed. Analysis for gasoline-range total petroleum hydrocarbons (Ecology method NWTPH-Gx) was performed by the Manchester Environmental Laboratory, Port Orchard, Washington.

No discrepancies were noted. The secondary reviewer applied "Q" bias qualifiers to estimated quantities to indicate that the results were less than the sample quantitation limit.

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

MEMORANDUM

SUBJECT:	Data Release for Total Petroleum Hydrocarbon - Gasoline Range Analysis Results from the USEPA Region 10 Laboratory
PROJECT NAME:	Bremerton Gasworks Targeted Brownfields Assessment
PROJECT CODE:	TEC-916A
FROM:	Gerald Dodo, Chemistry Supervisor Office of Environmental Assessment, USEPA Region 10 Laboratory
TO:	Joanne Labaw, SAM Office of Environmental Cleanup, USEPA Region 10
CC:	Renee Nordeen, Ecology and Environment

I have authorized release of this data package. Attached you will find the Total Petroleum Hydrocarbon - Gasoline Range results for the Bremerton Gasworks Targeted Brownfields Assessment for the samples collected 05/14/08 through 06/05/08. This is the last of the data associated with this project. For further information regarding the attached data, contact Peggy Knight at 360-871-8713.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

QUALITY ASSURANCE MEMORANDUM FOR ORGANIC CHEMICAL ANALYSES

Date: July 30, 2008

To: Joanne Labaw, SAM
Office of Environmental Cleanup, USEPA Region 10

From: Peggy Knight, Chemist
Office of Environmental Assessment, USEPA Region 10 Laboratory

Subject: Quality Assurance Review for the Total Petroleum Hydrocarbon - Gasoline Range Analysis of Samples from the Bremerton Gasworks Targeted Brownfields Assessment Project

Project Code: TEC-916A
Account Code: 0809BT10P402D43CG000LA00

CC: Renee Nordeen, Ecology and Environment

The following is a quality assurance review of the data for total petroleum hydrocarbon - gasoline range (TPH-G) analysis of water and soil samples from the above referenced site. Sample preparations were performed by the EPA Region 10 Laboratory staff using a Manchester draft SOP based on Washington State Department of Ecology Method NWTPH-Gx (GC/MS).

This review was conducted for the following samples:

08204401	08204402	08204403	08204404	08204405	08204406	08204407
08204422	08204423	08204424	08204425	08204426	08204427	08204429
08204430	08204431	08204432	08204433	08204434	08204435	08204436
08204439	08204440	08204441	08204442	08204443	08204444	08204445
08204446	08204447	08204448	08204449	08204450	08204451	08204452
08204454	08204455	08204456	08204457	08204463	08204464	08204465
08204466	08204467	08204468	08204400	08214409	08214410	08214411
08214412	08214413	08214414	08214415	08214416	08214417	08214419
08214468	08214469	08214458	08234459	08234460	08234461	08234462
08234470						

1. Data Qualifications

Comments below refer to the quality control specifications outlined in the Laboratory's current Quality Assurance Manual, Standard Operating Procedures (SOPs) and the Quality Assurance Project Plan (QAPP). No excursions were required from the method Standard Operating Procedure.

The quality control measures which did not meet Laboratory/QAPP criteria are annotated in the title of each affected subsection with "*Laboratory/QAPP Criteria Not Met*".

The Region 10 Laboratory's Quality System has been accredited to the standards of the National Environmental Laboratory Accreditation Conference (NELAC).

2. Sample Transport and Receipt

Upon sample receipt, no conditions were noted that would impact data quality. Sample 08204453 did not have a sample vial for TPH-G analysis.

3. Sample Holding Times

The concentration of an analyte in a sample or extract of a sample may increase or decrease over time depending on the nature of the analyte. All samples were prepared and analyzed within holding time criteria.

4. Sample Preparation

Samples were prepared according to the method.

5. Initial Calibration/Continuing Calibration Verification (CCV) - *Laboratory/QAPP Criteria Not Met*

Initial calibrations were performed on 05/01/08 and on 06/10/08 for TPH-G (unleaded gasoline composite). Coefficients of Determination for the linear calibration function met the SOP criteria and were $\geq$0.995.

The CCV met the criteria for frequency of analysis and the percent accuracies of 80-120% of the true value with the exception of the end CCV LCS8164A3 on June 12, which is also a laboratory control sample (123%). The value is likely slightly high due to carryover from a previous run containing creosote. This did not affect sample results.

6. Laboratory Control Samples/Laboratory Control Sample Duplicates (LCS/LCSD)

LCS/LCSD are generated to provide information on the accuracy and precision of the analytical method and the laboratory performance. The LCS/LCSD recoveries were within the criteria of 50-150% with a relative percent difference (RPD) of $\leq$50.

7. Blank Analysis - *Laboratory/QAPP Criteria Not Met*

Method blanks were analyzed with each analytical sequence to evaluate the potential for laboratory contamination and effects on the sample results. TPH-G was not detected in the blanks above the reporting limit with the exception of OBW8164A3, which is likely due to a small carryover from the previous run which contained creosote. No sample results were affected.

8. Surrogate Spikes

Surrogate recoveries are used to help in the evaluation of laboratory performance on individual samples. The surrogate compound used for these analyses was 1,4-difluorobenzene. All surrogate recoveries for the samples were within the criteria of 50-150% with the exception of sample 08214400 which had a recovery of 48%. This appears to have been a matrix effect as a reanalysis of the sample also yielded low surrogate recoveries. The value for TPH-G is qualified "J" as an estimate for this sample due to low surrogate recovery.

9. Matrix Spike/Matrix Spike Duplicate Analysis (MS/MSD)

MS/MSD analyses are performed to provide information on the effects of sample matrices toward the analytical method. An MS/MSD analysis was performed using water samples 08204439 (S1/S2) and 08234462 (S1/S2). The recoveries met the criteria of 50-150% with a RPD of $\leq$50. Matrix spikes were requested for sample 08204401; however only enough volume was supplied for one matrix spike (S1).

10. Compound Quantitation

The initial calibration functions were used for calculations. Reported quantitation limits were based on the initial calibration standards and sample size used for the analysis.

Creosote was identified based on chromatograms and spectra. The identified compounds indene, indane, and benzothiophenes are all indicative the creosote is coal-based. Only samples 08204447 and 08214400 contain target analytes which may have originated from gasoline. The other samples have elevated reporting limits reflecting the interference from creosote.

Manual integrations were sometimes necessary due to the creosote present in some samples. The integrations have been reviewed and found to comply with acceptable integration practices.

11. Identification

Many samples contained individual peaks thought to be target volatile analytes. Although these components were within the TPH-G (gasoline range organics) range, these samples were reported as non-detected, "U", at the reported concentration. See Volatiles results for more information.

The following were noted during the analysis.

Sample 08204422 contained early eluting peaks in the gasoline range which were from creosote.
Sample 08204423 contained late eluting peaks in the gasoline range which were from creosote.
Sample 08204446 contained early eluting peaks in the gasoline range which were from creosote.
Sample 08204447 contained benzene, toluene, and xylenes, but no other gasoline components.
Sample 08204448 contained early eluting peaks in the gasoline range which were from creosote.
Sample 08204449 contained early eluting peaks in the gasoline range which were from creosote.
Sample 08204450 contained mostly naphthalene in the gasoline range from creosote.
Sample 08214400 had low surrogate recovery, probably due to matrix.
Sample 08234458 contained mostly naphthalene in the gasoline range from creosote.
Sample 08234460 contained late eluting peaks in the gasoline range which were from creosote.

12. Data Qualifiers

All requirements for data qualifiers from the preceding sections were accumulated. Each sample data summary sheet and each compound was checked for positive or negative results. From this, the overall need for data qualifiers for each analysis was determined. In cases where more than one of the preceding sections

required data qualifiers, the most restrictive qualifier has been added to the data.

The usefulness of qualified data should be treated according to the severity of the qualifier in light of the project's data quality objectives. Should questions arise regarding the data, contact Peggy Knight at the Region 10 Laboratory, phone number (360) 871 - 8713.

Qualifier	Definition
U	The analyte was not detected at or above the reported value.
J	The identification of the analyte is acceptable; the reported value is an estimate.
UJ	The analyte was not detected at or above the reported value. The reported value is an estimate.

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**13:30:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204401	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP01GW			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : A9
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/17/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	***90076**	**Gasoline**	**27**	**ug/L**	J
Surrogate(s :	540363	Benzene, 1,4-difluoro-	97	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**13:30:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204401	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Matrix Spike	
Station Description:				

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : A5
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/23/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	98	%Rec	
	*90076	Gasoline	84	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**8:25:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204402	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP01SB05			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N10
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/23/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	7	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	95	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**8:40:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204403	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP01SB10			

		Result	Units	Qlfr
GC				
Parameter : Total Petroleum Hyd, Gasoline				Container ID : N5
Method : NWTPH-G	Gasoline range organics			Analysis Date : 5/23/2008
Prep Method : NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s): *90076	Gasoline	7	mg/kg	U
Surrogate(s : 540363	Benzene, 1,4-difluoro-	94	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**8:50:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204404	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP01SB15			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N3
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/23/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	7	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	97	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**9:25:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204405	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP01SB20			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N5
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/23/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	7	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	97	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**9:35:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204406	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP01SB25			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N2
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/23/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	6	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	97	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**9:45:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204407	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP01SB30			

		Result	Units	Qlfr
GC				
Parameter : Total Petroleum Hyd, Gasoline				Container ID : N2
Method : NWTPH-G	Gasoline range organics			Analysis Date : 5/23/2008
Prep Method : NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s): *90076	Gasoline	6	mg/kg	U
Surrogate(s : 540363	Benzene, 1,4-difluoro-	96	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/15/08	**10:15:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204422	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP04GW			

		Result	Units	Qlfr
GC				
Parameter : Total Petroleum Hyd, Gasoline				Container ID : A1
Method : NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method : NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s): *90076	Gasoline	1300	ug/L	U
Surrogate(s : 540363	Benzene, 1,4-difluoro-	92	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/13/08	**9:40:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204423	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP04SB05			

		Result	Units	Qlfr
GC				
Parameter : Total Petroleum Hyd, Gasoline				Container ID : N5
Method : NWTPH-G	Gasoline range organics			Analysis Date : 5/27/2008
Prep Method : NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s): ***90076**	**Gasoline**	**5**	**mg/kg**	**J** Q
Surrogate(s : 540363	Benzene, 1,4-difluoro-	101	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/13/08	**9:55:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204424	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP04SB10			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N3
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/27/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	7	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	103	%Rec .	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/13/08	**10:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204425	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP04SB15			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N3
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/27/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	6	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	102	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/13/08	**10:10:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204426	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP04SB20			

		Result	Units	Qlfr
GC				
Parameter : Total Petroleum Hyd, Gasoline				Container ID : N1
Method : NWTPH-G	Gasoline range organics			Analysis Date : 5/27/2008
Prep Method : NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s): *90076	Gasoline	6	mg/kg	U
Surrogate(s : 540363	Benzene, 1,4-difluoro-	100	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/13/08	**10:30:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204427	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP04SB25			

		Result	Units	Qlfr
GC				
Parameter : Total Petroleum Hyd, Gasoline				Container ID : N1
Method : NWTPH-G	Gasoline range organics			Analysis Date : 5/27/2008
Prep Method : NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s): *90076	Gasoline	6	mg/kg	U
Surrogate(s : 540363	Benzene, 1,4-difluoro-	102	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/13/08	**15:30:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204429	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	RS01WT			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : A3
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/15/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	88	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**9:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204430	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	RS02WT			

GC

Parameter : Total Petroleum Hyd, Gasoline — Container ID : A3
Method : NWTPH-G Gasoline range organics — Analysis Date : 5/15/2008
Prep Method : NWTPH-G Gasoline range organics — Prep Date :

			Result	Units	Qlfr
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	82	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/15/08	**14:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204431	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	RS03WT			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : A1
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	90	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**14:45:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204432	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP01GW			

		Result	Units	Qlfr
GC				
Parameter : Total Petroleum Hyd, Gasoline				Container ID : A5
Method : NWTPH-G	Gasoline range organics			Analysis Date : 5/15/2008
Prep Method : NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s): *90076	Gasoline	50	ug/L	U
Surrogate(s : 540363	Benzene, 1,4-difluoro-	80	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**13:55:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204433	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP01SB05			

		Result	Units	Qlfr
GC				
Parameter : Total Petroleum Hyd, Gasoline				Container ID : N8
Method : NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method : NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s): *90076	Gasoline	5	mg/kg	U
Surrogate(s : 540363	Benzene, 1,4-difluoro-	120	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**14:05:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204434	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP01SB10			

		Result	Units	Qlfr

GC

Parameter : Total Petroleum Hyd, Gasoline — Container ID : N3
Method : NWTPH-G Gasoline range organics — Analysis Date : 5/16/2008
Prep Method : NWTPH-G Gasoline range organics — Prep Date :

Analytes(s):	*90076	Gasoline	6	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	127	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**14:15:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204435	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP01SB15			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N5
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	5	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	125	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**14:25:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204436	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP01SB20			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N2
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	5	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	132	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/15/08	**12:10:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204439	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP02GW			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : A1
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	89	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/15/08	**12:10:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204439	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Matrix Spike	
Station Description:				

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : A2
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/23/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	100	%Rec	
	*90076	Gasoline	87	%Rec	

08204439 Matrix Spike

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/15/08	**12:10:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204439	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Matrix Spike Dupl	
Station Description:				

		Result	Units	Qlfr
GC				
Parameter	: Total Petroleum Hyd, Gasoline			Container ID : A3
Method	: NWTPH-G Gasoline range organics			Analysis Date : 5/23/2008
Prep Method	: NWTPH-G Gasoline range organics			Prep Date :
Surrogate(s :	540363 Benzene, 1,4-difluoro-	96	%Rec	
	*90076 Gasoline	84	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**9:22:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204440	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP02SB05			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N2
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	6	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	129	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**9:36:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204441	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP02SB10			

		Result	Units	Qlfr
GC				
Parameter : Total Petroleum Hyd, Gasoline				Container ID : N5
Method : NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method : NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s): *90076	Gasoline	6	mg/kg	U
Surrogate(s : 540363	Benzene, 1,4-difluoro-	131	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**9:45:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204442	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP02SB15			

		Result	Units	Qlfr
GC				
Parameter : Total Petroleum Hyd, Gasoline				Container ID : N5
Method : NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method : NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s): *90076	Gasoline	7	mg/kg	U
Surrogate(s : 540363	Benzene, 1,4-difluoro-	132	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**10:05:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204443	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP02SB20			

		Result	Units	Qlfr
GC				
Parameter : Total Petroleum Hyd, Gasoline				Container ID : N3
Method : NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method : NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s): *90076	Gasoline	6	mg/kg	U
Surrogate(s : 540363	Benzene, 1,4-difluoro-	133	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**10:15:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204444	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP02SB25			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N5
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	6	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	129	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**10:25:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204445	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP02SB30			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N2
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	6	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	129	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**18:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204446	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP03GW			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : A3
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/15/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	40000	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	91	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**16:05:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204447	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP03SB05			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N5
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	***90076**	**Gasoline**	**200**	**mg/kg**	**J** Q
Surrogate(s :	540363	Benzene, 1,4-difluoro-	139	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**16:15:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204448	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP03SB10			

		Result	Units	Qlfr
GC				
Parameter : Total Petroleum Hyd, Gasoline				Container ID : N3
Method : NWTPH-G	Gasoline range organics			Analysis Date : 5/27/2008
Prep Method : NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s): *90076	Gasoline	30000	mg/kg	U
Surrogate(s : 540363	Benzene, 1,4-difluoro-	93	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**16:15:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204448	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Duplicate	
Station Description:				

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N2
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/27/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	40000	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	98	%Rec	

08204448 Duplicate

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**16:30:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204449	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP03SB15			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N3
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/24/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	***90076**	**Gasoline**	**10**	**mg/kg**	
Surrogate(s :	540363	Benzene, 1,4-difluoro-	88	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**16:45:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204450	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP03SB20			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N2
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/17/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	***90076**	**Gasoline**	**9**	**mg/kg**	
Surrogate(s :	540363	Benzene, 1,4-difluoro-	133	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**17:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204451	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP03SB25			

		Result	Units	Qlfr
GC				
Parameter	: Total Petroleum Hyd, Gasoline			Container ID : N2
Method	: NWTPH-G Gasoline range organics			Analysis Date : 5/17/2008
Prep Method	: NWTPH-G Gasoline range organics			Prep Date :
Analytes(s):	*90076 Gasoline	6	mg/kg	U
Surrogate(s :	540363 Benzene, 1,4-difluoro-	96	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**17:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204452	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP03SB30			

		Result	Units	Qlfr
GC				
Parameter	: Total Petroleum Hyd, Gasoline			Container ID : N3
Method	: NWTPH-G Gasoline range organics			Analysis Date : 5/17/2008
Prep Method	: NWTPH-G Gasoline range organics			Prep Date :
Analytes(s):	*90076 Gasoline	11	mg/kg	U
Surrogate(s :	540363 Benzene, 1,4-difluoro-	100	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**8:38:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204454	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	TB02WT			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : A2
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	91	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/13/08	**9:15:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204455	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	TB03WT			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : A3
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/23/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	90	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**7:55:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204456	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	TB04WT			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : A1
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/15/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	97	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/15/08	**9:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204457	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	TB05WT			

GC

Parameter : Total Petroleum Hyd, Gasoline — Container ID : A1
Method : NWTPH-G Gasoline range organics — Analysis Date : 5/16/2008
Prep Method : NWTPH-G Gasoline range organics — Prep Date :

			Result	Units	Qlfr
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	89	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**17:20:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204463	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP03SB35			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N5
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/17/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	8	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	95	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**17:30:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204464	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP03SB40			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N3
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/17/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	6	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	97	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**17:40:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204465	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP03SB45			

		Result	Units	Qlfr
GC				
Parameter : Total Petroleum Hyd, Gasoline				Container ID : N2
Method : NWTPH-G	Gasoline range organics			Analysis Date : 5/17/2008
Prep Method : NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s): *90076	Gasoline	12	mg/kg	U
Surrogate(s : 540363	Benzene, 1,4-difluoro-	97	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/13/08	**11:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204466	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP04SB35			

		Result	Units	Qlfr
GC				
Parameter : Total Petroleum Hyd, Gasoline				Container ID : N5
Method : NWTPH-G	Gasoline range organics			Analysis Date : 5/27/2008
Prep Method : NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s): *90076	Gasoline	6	mg/kg	U
Surrogate(s : 540363	Benzene, 1,4-difluoro-	102	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/13/08	**11:25:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204467	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP04SB40			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N5
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/27/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	6	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	101	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**10:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204468	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP01SB35			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N2
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/27/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	6	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	100	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**12:40:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214400	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	ID01WT			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : A1
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/24/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	***90076**	**Gasoline**	**34**	**ug/L**	**J Q**
Surrogate(s :	540363	Benzene, 1,4-difluoro-	48	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**11:15:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214409	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP02SB05			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N3
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/23/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	6	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	98	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**11:25:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214410	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP02SB10			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N3
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/23/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	7	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	96	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**11:35:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214411	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP02SB15			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N5
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/23/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	6	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	97	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**11:45:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214412	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP02SB20			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N2
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/24/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	6	mg/kg	U
Surrogate(s):	540363	Benzene, 1,4-difluoro-	97	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**11:50:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214413	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP02SB25			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N3
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/24/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	5	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	99	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**12:05:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214414	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP02SB30			

		Result	Units	Qlfr
GC				
Parameter : Total Petroleum Hyd, Gasoline				Container ID : N2
Method : NWTPH-G	Gasoline range organics			Analysis Date : 5/24/2008
Prep Method : NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s): *90076	Gasoline	6	mg/kg	U
Surrogate(s : 540363	Benzene, 1,4-difluoro-	97	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**10:30:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214415	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP03GW			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : A1
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/23/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	97	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**8:15:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214416	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP03SB05			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N5
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/27/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	8	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	98	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**8:30:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214417	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP03SB10			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N2
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/27/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	5	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	98	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**9:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214419	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP03SB20			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N5
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/27/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	6	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	99	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**7:45:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214468	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	TB06WT			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N2
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/23/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	89	%Rec	

BREMERTON-01226

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	12:20:00
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214469	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	ID01SB			

		Result	Units	Qlfr
GC				
Parameter : Total Petroleum Hyd, Gasoline				Container ID : N3
Method : NWTPH-G	Gasoline range organics			Analysis Date : 5/27/2008
Prep Method : NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s): *90076	Gasoline	5	mg/kg	U
Surrogate(s : 540363	Benzene, 1,4-difluoro-	102	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	6/4/08	**15:24:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08234458	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	WN01SD			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N3
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/12/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	450	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	113	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	6/4/08	**13:50:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08234459	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	WN02SD			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N3
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/12/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	6	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	111	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	6/4/08	**14:08:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08234460	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	WN03SD			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N2
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/12/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	25	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	109	%Rec	

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Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	6/4/08	**14:31:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08234461	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	WN04SD			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N2
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/12/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	5	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	111	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	6/4/08	**14:55:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08234462	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	WN05SD			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N2
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/12/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	5	mg/kg	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	107	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	6/4/08	**14:55:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08234462	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Matrix Spike	
Station Description:				

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N2
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/12/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	114	%Rec	
	*90076	Gasoline	117	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	6/4/08	**14:55:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08234462	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Matrix Spike Dupl	
Station Description:				

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : N2
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/12/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	113	%Rec	
	*90076	Gasoline	114	%Rec	

08234462 Matrix Spike Du

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Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	6/4/08	**7:30:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08234470	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	TB07WT			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID : A1
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/11/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	94	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8136A1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

		Result	Units	Qlfr
GC				
Parameter : Total Petroleum Hyd, Gasoline				Container ID :
Method : NWTPH-G	Gasoline range organics			Analysis Date : 5/15/2008
Prep Method : NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s : 540363	Benzene, 1,4-difluoro-	95	%Rec	
*90076	Gasoline	94	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8136A2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/15/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	94	%Rec	
	*90076	Gasoline	94	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8136A3
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/15/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	93	%Rec	
	*90076	Gasoline	91	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8136A4
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/15/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	90	%Rec	
	*90076	Gasoline	88	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8136B1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/15/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	86	%Rec	
	*90076	Gasoline	79	%Rec	

LCS8136B1 LCS

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8136B2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/15/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	89	%Rec	
	*90076	Gasoline	86	%Rec	

LCS8136B2 LCSD

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8137A1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	106	%Rec	
	*90076	Gasoline	100	%Rec	

LCS8137A1 LCS

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8137A2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	96	%Rec	
	*90076	Gasoline	92	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8137A3
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	106	%Rec	
	*90076	Gasoline	100	%Rec	

LCS8137A3 LCS

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8137A4
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	103	%Rec	
	*90076	Gasoline	92	%Rec	

LCS8137A4 LCSD

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8137B1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	90	%Rec	
	*90076	Gasoline	93	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8137B2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	91	%Rec	
	*90076	Gasoline	103	%Rec	

LCS8137B2 LCSD

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8144A1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/23/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	113	%Rec	
	*90076	Gasoline	98	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8144A2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/23/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	107	%Rec	
	*90076	Gasoline	90	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8145A1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/24/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	101	%Rec	
	*90076	Gasoline	93	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8145A2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/24/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	100	%Rec	
	*90076	Gasoline	98	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8148A1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/27/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	111	%Rec	
	*90076	Gasoline	89	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8148A2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/27/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	103	%Rec	
	*90076	Gasoline	83	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8162A1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/10/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	109	%Rec	
	*90076	Gasoline	112	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8162A2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/10/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	109	%Rec	
	*90076	Gasoline	114	%Rec	

LCS8162A2 LCSD

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8162A3
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/11/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	109	%Rec	
	*90076	Gasoline	106	%Rec	

LCS8162A3 LCSD

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8162A4
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/11/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	103	%Rec	
	*90076	Gasoline	99	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8164A1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/12/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	112	%Rec	
	*90076	Gasoline	114	%Rec	

LCS8164A1 LCS

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8164A2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/12/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	119	%Rec	
	*90076	Gasoline	116	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	LCS8164A3
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

			Result	**Units**	**Qlfr**
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/12/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Surrogate(s :	540363	Benzene, 1,4-difluoro-	110	%Rec	
	*90076	Gasoline	123	%Rec	

LCS8164A3 LCS

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8136A1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/15/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	86	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8137A1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	109	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8137A2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/16/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	89	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8144A1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/24/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	115	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8144A2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/24/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	97	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8145A1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/25/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	97	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8145A2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/25/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	***90076**	**Gasoline**	**49**	**ug/L**	**J**
Surrogate(s :	540363	Benzene, 1,4-difluoro-	93	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8148A1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/27/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	95	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8148A2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 5/27/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	94	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8162A1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/10/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	96	%Rec	

OBW8162A1 Blank

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8162B1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/10/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	93	%Rec	

OBW8162B1 Blank

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8162B2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/10/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	***90076**	**Gasoline**	**28**	**ug/L**	**J**
Surrogate(s :	540363	Benzene, 1,4-difluoro-	100	%Rec	

OBW8162B2 Blank

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8164A1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/12/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	***90076**	**Gasoline**	**28**	**ug/L**	**J**
Surrogate(s :	540363	Benzene, 1,4-difluoro-	102	%Rec	

OBW8164A1 Blank

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8164A3
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

		Result	**Units**	**Qlfr**

GC

Parameter : Total Petroleum Hyd, Gasoline — Container ID :
Method : NWTPH-G Gasoline range organics — Analysis Date : 6/12/2008
Prep Method : NWTPH-G Gasoline range organics — Prep Date :

Analytes(s):	***90076**	**Gasoline**	**65**	**ug/L**	
Surrogate(s :	540363	Benzene, 1,4-difluoro-	117	%Rec	

OBW8164A3 Blank

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8164A4
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/12/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	*90076	Gasoline	50	ug/L	U
Surrogate(s :	540363	Benzene, 1,4-difluoro-	109	%Rec	

OBW8164A4 Blank

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8164A5
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Olfr
GC					
Parameter	: Total Petroleum Hyd, Gasoline				Container ID :
Method	: NWTPH-G	Gasoline range organics			Analysis Date : 6/12/2008
Prep Method	: NWTPH-G	Gasoline range organics			Prep Date :
Analytes(s):	***90076**	**Gasoline**	**109**	**ug/L**	
Surrogate(s :	540363	Benzene, 1,4-difluoro-	105	%Rec	

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Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: September 9, 2008

TO: Renee Nordeen, START-3 Project Manager, E & E, Seattle, WA

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Summary Check,**
Bremerton Gasworks Properties, Bremerton, Washington

REF: TDD: 07-01-0008 PAN: 002233.0178.01BR

The data summary check of soil and water samples collected from the Bremerton Gasworks Properties site located in Bremerton, Washington, has been completed. Analysis for diesel-range total petroleum hydrocarbons (Ecology method NWTPH-Dx) was performed by the Manchester Environmental Laboratory, Port Orchard, Washington.

No discrepancies were noted.

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

MEMORANDUM

SUBJECT: Data Release for Total Petroleum Hydrocarbon - Diesel Range Extended Analysis Results from the USEPA Region 10 Laboratory

PROJECT NAME: Bremerton Gasworks Targeted Brownfields Assessment

PROJECT CODE: TEC-916A

FROM: Gerald Dodo, Chemistry Supervisor
Office of Environmental Assessment, USEPA Region 10 Laboratory

TO: Joanne Labaw, SAM
Office of Environmental Cleanup, USEPA Region 10

CC: Renee Nordeen, Ecology and Environment

I have authorized release of this data package. Attached you will find the Total Petroleum Hydrocarbon - Diesel Range Extended results for the Bremerton Gasworks Targeted Brownfields Assessment for the samples collected 05/12/08 through 06/04/08. For further information regarding the attached data, contact Peggy Knight at 360-871-8713. For the schedule for the remaining analyses, contact Gerald Dodo at 360-871-8728.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

QUALITY ASSURANCE MEMORANDUM FOR ORGANIC CHEMICAL ANALYSES

Date: June 26, 2008

To: Joanne Labaw, SAM
Office of Environmental Cleanup, USEPA Region 10

From: Peggy Knight, Chemist
Office of Environmental Assessment, USEPA Region 10 Laboratory

Subject: Quality Assurance Review for the Total Petroleum Hydrocarbon - Diesel Range Extended Analysis of Samples from the Bremerton Gasworks Targeted Brownfields Assessment Project

Project Code: TEC-916A
Account Code: 0809BT10P402D43CG000LA00

CC: Renee Nordeen, Ecology and Environment

The following is a quality assurance review of the data for total petroleum hydrocarbon - diesel range extended (TPH-Dx) analysis of water and soil samples from the above referenced site. Sample preparations were performed by the EPA Region 10 Laboratory staff using Manchester SOPs based on methods from SW846 (3541 for soil extraction; 3535 for water extraction) and were analyzed using a Manchester SOP based on Washington State Department of Ecology Method NWTPH-Dx.

This review was conducted for the following samples:

08204401	08204402	08204403	08204404	08204405	08204406	08204407
08204422	08204423	08204424	08204425	08204426	08204427	08204429
08204430	08204431	08204432	08204433	08204434	08204435	08204436
08204439	08204440	08204441	08204442	08204443	08204444	08204445
08204446	08204447	08204448	08204449	08204450	08204451	08204452
08204463	08204464	08204465	08204466	08204467	08204468	08214400
08214409	08214410	08214411	08214412	08214413	08214414	08214415
08214416	08214417	08214419	08214469	08234458	08234459	08234460
08234461	08234462					

1. Data Qualifications

Comments below refer to the quality control specifications outlined in the Laboratory's current Quality Assurance Manual, Standard Operating Procedures (SOPs) and the Quality Assurance Project Plan (QAPP). No excursions were required from the method Standard Operating Procedure.

The quality control measures which did not meet Laboratory/QAPP criteria are annotated in the title of each affected subsection with "*Laboratory/QAPP Criteria Not Met*".

For those tests for which the EPA Region 10 Laboratory has been accredited by the National Environmental Laboratory Accreditation Conference (NELAC), all requirements of the current NELAC Standard have been met.

2. Sample Transport and Receipt

Upon sample receipt, no conditions were noted that would impact data quality. Samples 08214400, 08214409 through 08214417, 08214468 and 08214469 were received at ambient temperature and not ≤6°C; however, sample transport immediately followed sampling and the short time in sealed containers is not expected to adversely affect TPH-Dx.

3. Sample Holding Times

The concentration of an analyte in a sample or extract of a sample may increase or decrease over time depending on the nature of the analyte. The holding time maximum criteria applied for the extraction of water samples is 7 days from the time of collection. Extracts have a holding time maximum of 40 days from the time of preparation. All samples were extracted and analyzed within these criteria.

4. Sample Preparation

Soil samples were prepared according to SOPs Or_P3541 using methylene chloride as solvent. Water samples were prepared according to Or_P018A. The water samples 08204401, 08204432, 08204446, and 08214415 all contained copious fine silt which hampered rinsing the container with solvent. Due to the probable low bias, positive results for these samples are qualified "JL", low bias, undetected results are qualified "UJ".

5. Initial Calibration/Continuing Calibration Verification (CCV) - *Laboratory/QAPP Criteria Not Met*

Initial calibrations were performed on 05/16/08 and 5/28//08 for #2 diesel and for motor oil. The correlation coefficients met the criteria for averaged R_f (Relative Standard Deviation of the R_fs<10%) or linear calibration function (Coefficient of Determination≥0.99.)

The CCV met the criteria for frequency of analysis and the criteria of ±15% of the expected value with the exception of the dilution of sample 08204447, for motor oil only, which was 16 minutes outside the 12 hour criterion. This is not expected to have an effect on data quality as a CCV which followed the sample extract run 1.5 hours later, met the required criterion.

6. LCS/LCSD - *Laboratory/QAPP Criteria Not Met*

Data for laboratory control sample/laboratory control sample duplicates (LCS/LCSD) are generated to provide information on the accuracy and precision of the analytical method and the laboratory performance. The LCS/LCSD recoveries for the soils were within the SOP criteria of 50-150% with a relative percent difference (RPD) of ≤30 and the QAPP criteria of 60-140% with RPD ≤35. The waters were within the SOP criteria of 50-150% with a relative percent difference (RPD) of ≤50. The QAPP criteria of 60-140% with RPD ≤20%

were exceeded for one LCS/LCSD pair – OBW8141F1 and OBW8141F2 (66%, 91%; RPD 32.)

7. MS/MSD

Matrix spikes were done at the rate of 10% of the samples, including those samples requested for matrix spiking. All recoveries were within the SOP recovery criteria of 50-150% with RPD of 30% with the exception of the matrix spikes for sample 08234458, which contained native concentrations proportionately too high compared with the amount spiked to accurately evaluate the amount recovered. No MS/MSD recovery results were reported for this sample. All QAPP criteria (60-140% recovery with RPD 35% for soils and 20% for waters) were met.

8. Blank Analysis

Method blanks were prepared and analyzed with each sample extraction batch to evaluate the potential for laboratory contamination and effects on the sample results. Target analytes were not detected in the blanks.

9. Surrogate Spikes

Surrogate recoveries are used to help in the evaluation of laboratory performance on individual samples. The surrogate recoveries met the SOP criteria of 50-150% except for samples 08204447 and 08204448, in which the pentacosane could not be determined due to matrix interference.

10. Duplicate Sample Analysis

Duplicate sample analyses are performed to provide information on the precision, in the matrix of interest, of the analytical method. Duplicate analyses were performed using samples 08204402, 08204442, 08204452, 08235558, and 08234460. All results met the SOP relative percent difference (RPD) criteria of $\leq$30. Sample 08204452 did not contain reportable levels of TPH-Dx.

11. Compound Identification/Quantitation

Diesel range organics above the reporting limit in samples 08204422, 08204446, and 08214400 were qualified as estimates due to the presence of interferences in the diesel range. Motor oil range organics above the reporting limit in sample 08204447 is qualified as an estimate as the retention time for the motor oil pattern was shifted compared with the motor oil standard. Sample 08204448 contained a large amount of sulfur, an estimated 10% by weight. The chromatogram suggests the presence of creosote, from which it is expected that polyaromatic hydrocarbons are present and contribute to the response in the diesel range. Both diesel and motor oil are qualified as estimates in samples 08204448, 08214415, 08234458, 08234459, 08234460, 08234461, and 08234462 due to overlap of response between the diesel and motor oil range.

Soil sample preparation included the method specified sulfuric acid/silica gel cleanup.

All manual integrations have been reviewed and found to comply with acceptable integration practices.

Chemical Abstract Service (CAS) numbers with a "*" indicates that the number was created at the Region 10 Laboratory due to lack of an existing one.

12. Data Qualifiers

All requirements for data qualifiers from the preceding sections were accumulated. Each sample data summary sheet and each compound was checked for positive or negative results. From this, the overall need for data qualifiers for each analysis was determined. In cases where more than one of the preceding sections required data qualifiers, the most restrictive qualifier has been added to the data.

The usefulness of qualified data should be treated according to the severity of the qualifier in light of the project's data quality objectives. Should questions arise regarding the data, contact Peggy Knight at the Region 10 Laboratory, phone number (360) 871 - 8713.

Qualifier	Definition
U	The analyte was not detected at or above the reported value.
J	The identification of the analyte is acceptable; the reported value is an estimate.
UJ	The analyte was not detected at or above the reported value. The reported value is an estimate.
NA	Not Applicable, the parameter was not analyzed for, or there is no analytical result for this parameter. No value is reported with this qualification.

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**13:30:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204401	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP01GW			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : A1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/21/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/20/2008
Analytes(s):	***400009**	**TPH-GC/Diesel Range Organics**	**0.38**	**mg/L**	JLW
	*400010	TPH-GC/Motor Oil Range Organic s	0.50	mg/L	UJ
Surrogate(s :	629992	Pentacosane	103	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**8:25:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204402	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP01SB05			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/30/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/16/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	***400010**	**TPH-GC/Motor Oil Range Organic s**	**110**	**mg/kg**	
Surrogate(s :	629992	Pentacosane	140	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**8:25:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204402	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Duplicate	
Station Description:				

		Result	Units	Qlfr
GC				
Parameter : Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method : NWTPH-DX	Diesel range organics			Analysis Date : 5/30/2008
Prep Method : 3540/608	Soxhlet extraction			Prep Date : 5/21/2008
Analytes(s): *400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
***400010**	**TPH-GC/Motor Oil Range Organic s**	**100**	**mg/kg**	
Surrogate(s : 629992	Pentacosane	119	%Rec	

08204402 Duplicate

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**8:25:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204402	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Matrix Spike	
Station Description:				

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/30/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/21/2008
Surrogate(s :	629992	Pentacosane	123	%Rec	
	*400009	TPH-GC/Diesel Range Organics	110	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**8:25:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204402	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Matrix Spike Dupl	
Station Description:				

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/30/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/21/2008
Surrogate(s :	629992	Pentacosane	124	%Rec	
	*400009	TPH-GC/Diesel Range Organics	119	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**8:40:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204403	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP01SB10			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/22/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/16/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	78	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**8:50:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204404	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP01SB15			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/22/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/16/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	76	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**9:25:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204405	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP01SB20			

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : N1
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/22/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/16/2008

			Result	Units	Qlfr
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	75	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**9:35:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204406	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP01SB25			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/22/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/16/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	78	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**9:45:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204407	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP01SB30			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/22/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/16/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	77	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/15/08	**10:15:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204422	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP04GW			

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : A4
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/21/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/19/2008

			Result	Units	Qlfr
Analytes(s):	***400009**	**TPH-GC/Diesel Range Organics**	**0.51**	**mg/L**	**J**
	*400010	TPH-GC/Motor Oil Range Organic s	0.50	mg/L	U
Surrogate(s :	629992	Pentacosane	81	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/13/08	**9:40:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204423	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP04SB05			

		Result	Units	Qlfr
GC				
Parameter	: Tot Petroleum Hyd, Diesel extended			Container ID : N1
Method	: NWTPH-DX Diesel range organics			Analysis Date : 5/20/2008
Prep Method	: 3540/608 Soxhlet extraction			Prep Date : 5/15/2008
Surrogate(s : 629992	Pentacosane	138	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/13/08	**9:40:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204423	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Dilution 1	
Station Description:				

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/20/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/15/2008
Analytes(s):	***400009**	**TPH-GC/Diesel Range Organics**	**1800**	**mg/kg**	
	*400010	TPH-GC/Motor Oil Range Organic s	98	mg/kg	U

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/13/08	**9:55:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204424	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP04SB10			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/20/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/15/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	92	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/13/08	**10:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204425	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP04SB15			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/20/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/15/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	95	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/13/08	**10:10:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204426	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP04SB20			

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : N1
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/20/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/15/2008

			Result	Units	Qlfr
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	98	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/13/08	**10:30:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204427	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP04SB25			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/20/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/15/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	101	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/13/08	**15:30:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204429	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	RS01WT			

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : A2
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/21/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/19/2008

			Result	Units	Qlfr
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	0.25	mg/L	U
	*400010	TPH-GC/Motor Oil Range Organic s	0.50	mg/L	U
Surrogate(s :	629992	Pentacosane	96	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**9:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204430	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	RS02WT			

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : A1
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/21/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/19/2008

			Result	Units	Qlfr
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	0.25	mg/L	U
	*400010	TPH-GC/Motor Oil Range Organic s	0.50	mg/L	U
Surrogate(s :	629992	Pentacosane	93	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/15/08	**14:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204431	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	RS03WT			

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : A4
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/21/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/19/2008

			Result	Units	Qlfr
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	0.25	mg/L	U
	*400010	TPH-GC/Motor Oil Range Organic s	0.50	mg/L	U
Surrogate(s :	629992	Pentacosane	92	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**14:45:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204432	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP01GW			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : A1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/21/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/20/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	0.25	mg/L	UJ
	*400010	TPH-GC/Motor Oil Range Organic s	0.50	mg/L	UJ
Surrogate(s :	629992	Pentacosane	86	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**13:55:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204433	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP01SB05			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/19/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/14/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	107	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**13:55:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204433	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Matrix Spike	
Station Description:				

		Result	Units	Qlfr

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : N1
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/20/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/15/2008

Surrogate(s :	629992	Pentacosane	94	%Rec
	*400009	TPH-GC/Diesel Range Organics	98	%Rec

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**13:55:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204433	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Matrix Spike Dupl	
Station Description:				

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/20/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/15/2008
Surrogate(s :	629992	Pentacosane	88	%Rec	
	*400009	TPH-GC/Diesel Range Organics	92	%Rec	

08204433 Matrix Spike Du

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**14:05:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204434	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP01SB10			

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : N1
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/19/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/14/2008

			Result	Units	Qlfr
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	112	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**14:15:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204435	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP01SB15			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/19/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/14/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	108	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**14:25:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204436	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP01SB20			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/19/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/14/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	112	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/15/08	**12:10:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204439	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP02GW			

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : A10
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/21/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/19/2008

			Result	Units	Qlfr
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	0.25	mg/L	U
	*400010	TPH-GC/Motor Oil Range Organic s	0.50	mg/L	U
Surrogate(s :	629992	Pentacosane	95	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/15/08	**12:10:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204439	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Matrix Spike	
Station Description:				

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : A12
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/21/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/19/2008
Surrogate(s :	629992	Pentacosane	99	%Rec	
	*400009	TPH-GC/Diesel Range Organics	86	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/15/08	**12:10:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204439	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Matrix Spike Dupl	
Station Description:				

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : A13
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/21/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/19/2008
Surrogate(s :	629992	Pentacosane	103	%Rec	
	*400009	TPH-GC/Diesel Range Organics	88	%Rec	

08204439 Matrix Spike Du

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**9:22:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204440	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP02SB05			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/19/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/14/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	112	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**9:36:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204441	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP02SB10			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/19/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/14/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	115	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**9:45:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204442	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP02SB15			

		Result	Units	Qlfr
GC				
Parameter : Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method : NWTPH-DX	Diesel range organics			Analysis Date : 5/19/2008
Prep Method : 3540/608	Soxhlet extraction			Prep Date : 5/14/2008
Analytes(s): *400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
***400010**	**TPH-GC/Motor Oil Range Organic s**	**52**	**mg/kg**	
Surrogate(s : 629992	Pentacosane	133	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid
Project Officer:	JOANNE LABAW	**Sample Number:**	08204442
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Duplicate
Station Description:			

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : N1
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/30/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/21/2008

			Result	Units	Qlfr
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	***400010**	**TPH-GC/Motor Oil Range Organic s**	**63**	**mg/kg**	
Surrogate(s :	629992	Pentacosane	127	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**9:45:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204442	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Duplicate #2	
Station Description:				

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/30/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/23/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	***400010**	**TPH-GC/Motor Oil Range Organic s**	**63**	**mg/kg**	
Surrogate(s :	629992	Pentacosane	127	%Rec	

08204442 Duplicate #2

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**10:05:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204443	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP02SB20			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/19/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/14/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	126	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**10:15:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204444	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP02SB25			

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : N1
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/19/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/14/2008

			Result	Units	Qlfr
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	130	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**10:25:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204445	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP02SB30			

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : N1
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/20/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/15/2008

			Result	Units	Qlfr
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	104	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**18:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204446	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP03GW			

		Result	Units	Qlfr
GC				
Parameter	: Tot Petroleum Hyd, Diesel extended			Container ID : A1
Method	: NWTPH-DX Diesel range organics			Analysis Date : 5/21/2008
Prep Method	: 3540/608 Soxhlet extraction			Prep Date : 5/20/2008
Surrogate(s : 629992	Pentacosane	105	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**18:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204446	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Dilution 1	
Station Description:				

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : A1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/30/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/20/2008
Analytes(s):	***400009**	**TPH-GC/Diesel Range Organics**	**5.5**	**mg/L**	**J** UJ
	*400010	TPH-GC/Motor Oil Range Organic s	0.44	mg/L	UJ

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**16:05:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204447	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP03SB05			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/22/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/15/2008
Analytes(s):	629992	Pentacosane			NA
	*400009	TPH-GC/Diesel Range Organics	100	mg/kg	U
	***400010**	**TPH-GC/Motor Oil Range Organic s**	**4700**	**mg/kg**	**J**

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**16:15:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204448	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP03SB10			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/30/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/15/2008
Analytes(s):	***400009**	**TPH-GC/Diesel Range Organics**	**36000**	**mg/kg**	**J**
	***400010**	**TPH-GC/Motor Oil Range Organic s**	**29000**	**mg/kg**	**J**
Surrogate(s :	629992	Pentacosane	0	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**16:30:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204449	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP03SB15			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/20/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/15/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	128	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**16:45:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204450	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP03SB20			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/20/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/15/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	96	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**17:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204451	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP03SB25			

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : N1
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/20/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/15/2008

			Result	Units	Qlfr
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	97	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**17:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204452	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP03SB30			

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : N1
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/21/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/15/2008

			Result	Units	Qlfr
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	96	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**17:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204452	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Duplicate	
Station Description:				

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/29/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/21/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	117	%Rec	

08204452 Duplicate

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**17:20:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204463	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP03SB35			

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : N1
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/20/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/15/2008

			Result	Units	Qlfr
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	99	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**17:30:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204464	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP03SB40			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/20/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/15/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	106	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**17:40:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204465	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	SP03SB45			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/20/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/15/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	102	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**17:40:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204465	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Matrix Spike	
Station Description:				

		Result	Units	Qlfr
GC				
Parameter	: Tot Petroleum Hyd, Diesel extended			Container ID : N1
Method	: NWTPH-DX Diesel range organics			Analysis Date : 5/29/2008
Prep Method	: 3540/608 Soxhlet extraction			Prep Date : 5/21/2008
Surrogate(s :	629992 Pentacosane	126	%Rec	
	*400009 TPH-GC/Diesel Range Organics	103	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/12/08	**17:40:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204465	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Matrix Spike Dupl	
Station Description:				

		Result	Units	Qlfr

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : N1
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/29/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/21/2008

Surrogate(s :	629992	Pentacosane	124	%Rec
	*400009	TPH-GC/Diesel Range Organics	107	%Rec

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/13/08	**11:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204466	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP04SB35			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/22/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/16/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	66	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/13/08	**11:25:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204467	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP04SB40			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/22/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/16/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	83	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/14/08	**10:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08204468	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP01SB35			

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : N1
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/22/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/16/2008

			Result	Units	Qlfr
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	72	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**12:40:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214400	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	ID01WT			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : A4
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/21/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/20/2008
Analytes(s):	***400009**	**TPH-GC/Diesel Range Organics**	**0.37**	**mg/L**	**J**
	*400010	TPH-GC/Motor Oil Range Organic s	0.50	mg/L	U
Surrogate(s :	629992	Pentacosane	104	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**11:15:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214409	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP02SB05			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/29/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/21/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	***400010**	**TPH-GC/Motor Oil Range Organic s**	**18**	**mg/kg**	
Surrogate(s :	629992	Pentacosane	121	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**11:25:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214410	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP02SB10			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/29/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/21/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	115	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**11:35:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214411	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP02SB15			

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : N1
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/29/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/21/2008

			Result	Units	Qlfr
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	114	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**11:45:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214412	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP02SB20			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/29/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/21/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	120	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**11:45:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214412	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Matrix Spike	
Station Description:				

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/29/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/23/2008
Surrogate(s :	629992	Pentacosane	117	%Rec	
	*400009	TPH-GC/Diesel Range Organics	89	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**11:45:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214412	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Matrix Spike Dupl	
Station Description:				

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/29/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/23/2008
Surrogate(s :	629992	Pentacosane	121	%Rec	
	*400009	TPH-GC/Diesel Range Organics	90	%Rec	

08214412 Matrix Spike Du

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**11:50:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214413	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP02SB25			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/29/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/21/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	116	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**12:05:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214414	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP02SB30			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/29/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/21/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	122	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**10:30:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214415	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP03GW			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : A4
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/29/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/20/2008
Analytes(s):	***400009**	**TPH-GC/Diesel Range Organics**	**0.17**	**mg/L**	JL
	***400010**	**TPH-GC/Motor Oil Range Organic s**	**0.16**	**mg/L**	JL
Surrogate(s :	629992	Pentacosane	116	%Rec	

08214415 Reg sample

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**8:15:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214416	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP03SB05			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/29/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/21/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	118	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**8:30:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214417	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP03SB10			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/29/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/21/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	119	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**8:30:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214417	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Matrix Spike	
Station Description:				

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/29/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/23/2008
Surrogate(s :	629992	Pentacosane	114	%Rec	
	*400009	TPH-GC/Diesel Range Organics	84	%Rec	

08214417 Matrix Spike

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**8:30:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214417	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Matrix Spike Dupl	
Station Description:				

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/29/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/23/2008
Surrogate(s :	629992	Pentacosane	120	%Rec	
	*400009	TPH-GC/Diesel Range Organics	96	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**9:00:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214419	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	MP03SB20			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/29/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/21/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	116	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	5/19/08	**12:20:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08214469	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	ID01SB			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/30/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/23/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	***400010**	**TPH-GC/Motor Oil Range Organic s**	**12**	**mg/kg**	
Surrogate(s :	629992	Pentacosane	132	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	6/4/08	**15:24:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08234458	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	WN01SD			

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : N1
Method : NWTPH-DX Diesel range organics — Analysis Date : 6/6/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 6/5/2008

			Result	Units	Qlfr
Analytes(s):	*400009	**TPH-GC/Diesel Range Organics**	**210**	**mg/kg**	**J**
	*400010	**TPH-GC/Motor Oil Range Organic s**	**450**	**mg/kg**	**J**
Surrogate(s :	629992	Pentacosane	117	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	6/4/08	**15:24:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08234458	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Duplicate	
Station Description:				

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : N1
Method : NWTPH-DX Diesel range organics — Analysis Date : 6/6/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 6/5/2008

			Result	Units	Qlfr
Analytes(s):	***400009**	**TPH-GC/Diesel Range Organics**	**280**	**mg/kg**	**J**
	***400010**	**TPH-GC/Motor Oil Range Organic s**	**580**	**mg/kg**	**J**
Surrogate(s :	629992	Pentacosane	118	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	6/4/08	**15:24:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08234458	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Matrix Spike	
Station Description:				

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 6/6/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 6/5/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics			NA
Surrogate(s :	629992	Pentacosane	122	%Rec	

08234458 Matrix Spike

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	6/4/08	**13:50:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08234459	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	WN02SD			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 6/6/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 6/5/2008
Analytes(s):	***400009**	**TPH-GC/Diesel Range Organics**	**140**	**mg/kg**	**J**
	***400010**	**TPH-GC/Motor Oil Range Organic s**	**460**	**mg/kg**	**J**
Surrogate(s :	629992	Pentacosane	118	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	6/4/08	**14:08:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08234460	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	WN03SD			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 6/6/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 6/5/2008
Analytes(s):	***400009**	**TPH-GC/Diesel Range Organics**	**240**	**mg/kg**	**J**
	***400010**	**TPH-GC/Motor Oil Range Organic s**	**620**	**mg/kg**	**J**
Surrogate(s :	629992	Pentacosane	118	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	6/4/08	**14:08:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08234460	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Duplicate	
Station Description:				

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 6/6/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 6/5/2008
Analytes(s):	***400009**	**TPH-GC/Diesel Range Organics**	**200**	**mg/kg**	**J**
	***400010**	**TPH-GC/Motor Oil Range Organic s**	**610**	**mg/kg**	**J**
Surrogate(s :	629992	Pentacosane	114	%Rec	

08234460 Duplicate

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	6/4/08	**14:31:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08234461	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	WN04SD			

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : N1
Method : NWTPH-DX Diesel range organics — Analysis Date : 6/6/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 6/5/2008

			Result	Units	Qlfr
Analytes(s):	***400009**	**TPH-GC/Diesel Range Organics**	**63**	**mg/kg**	**J**
	***400010**	**TPH-GC/Motor Oil Range Organic s**	**210**	**mg/kg**	**J**
Surrogate(s :	629992	Pentacosane	120	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	6/4/08	**14:55:00**
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid	
Project Officer:	JOANNE LABAW	**Sample Number:**	08234462	
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Reg sample	
Station Description:	WN05SD			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 6/6/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 6/5/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	***400010**	**TPH-GC/Motor Oil Range Organic s**	**21**	**mg/kg**	**J**
Surrogate(s :	629992	Pentacosane	106	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBS8135B1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : 0
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/19/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/14/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	113	%Rec	

OBS8135B1 Blank

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBS8135F1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

		Result	Units	Qlfr
GC				
Parameter	: Tot Petroleum Hyd, Diesel extended			Container ID : 0
Method	: NWTPH-DX Diesel range organics			Analysis Date : 5/19/2008
Prep Method	: 3540/608 Soxhlet extraction			Prep Date : 5/14/2008
Surrogate(s :	629992 Pentacosane	126	%Rec	
	*400009 TPH-GC/Diesel Range Organics	94	%Rec	

OBS8135F1 LCS

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBS8135F2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : 0
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/19/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/14/2008
Surrogate(s :	629992	Pentacosane	115	%Rec	
	*400009	TPH-GC/Diesel Range Organics	97	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBS8136B1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : 0
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/20/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/15/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	***400010**	**TPH-GC/Motor Oil Range Organic s**	**50**	**mg/kg**	
Surrogate(s :	629992	Pentacosane	102	%Rec	

OBS8136B1 Blank

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBS8136F1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

	Result	Units	Qlfr

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : 0
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/20/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/15/2008

Surrogate(s :	629992	Pentacosane	89	%Rec	
	*400009	TPH-GC/Diesel Range Organics	93	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBS8136F3
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCSD
Station Description:			

	Result	Units	Qlfr

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : 0
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/20/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/15/2008

Surrogate(s :	629992	Pentacosane	98	%Rec	
	*400009	TPH-GC/Diesel Range Organics	102	%Rec	

OBS8136F3 LCSD

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBS8137B1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : 0
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/22/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/16/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	***400010**	**TPH-GC/Motor Oil Range Organic s**	**50**	**mg/kg**	
Surrogate(s :	629992	Pentacosane	79	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBS8137F1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

		Result	Units	Qlfr
GC				
Parameter	: Tot Petroleum Hyd, Diesel extended			Container ID : 0
Method	: NWTPH-DX Diesel range organics			Analysis Date : 5/22/2008
Prep Method	: 3540/608 Soxhlet extraction			Prep Date : 5/16/2008
Surrogate(s :	629992 Pentacosane	73	%Rec	
	*400009 TPH-GC/Diesel Range Organics	85	%Rec	

OBS8137F1 LCS

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBS8137F2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCSD
Station Description:			

	Result	Units	Qlfr

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : 0
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/22/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/16/2008

Surrogate(s :	629992	Pentacosane	78	%Rec	
	*400009	TPH-GC/Diesel Range Organics	99	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBS8142B1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : 0
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/29/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/21/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	***400010**	**TPH-GC/Motor Oil Range Organic s**	**50**	**mg/kg**	
Surrogate(s :	629992	Pentacosane	116	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBS8142F1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : 0
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/29/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/21/2008
Surrogate(s :	629992	Pentacosane	118	%Rec	
	*400009	TPH-GC/Diesel Range Organics	99	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBS8142F2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : 0
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/29/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/21/2008

Surrogate(s :	629992	Pentacosane	115	%Rec	
	*400009	TPH-GC/Diesel Range Organics	93	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBS8144B1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : 0
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/29/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/23/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	***400010**	**TPH-GC/Motor Oil Range Organic s**	**50**	**mg/kg**	
Surrogate(s :	629992	Pentacosane	117	%Rec	

OBS8144B1 Blank

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBS8144F1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : 0
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/29/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/23/2008
Surrogate(s :	629992	Pentacosane	113	%Rec	
	*400009	TPH-GC/Diesel Range Organics	81	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBS8144F2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : 0
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/29/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/23/2008
Surrogate(s :	629992	Pentacosane	114	%Rec	
	*400009	TPH-GC/Diesel Range Organics	93	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBS8157B1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : 0
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 6/6/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/14/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	25	mg/kg	U
	*400010	TPH-GC/Motor Oil Range Organic s	50	mg/kg	U
Surrogate(s :	629992	Pentacosane	113	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBS8157F1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : N1
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 6/6/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 6/5/2008
Surrogate(s :	629992	Pentacosane	118	%Rec	
	*400009	TPH-GC/Diesel Range Organics	94	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Solid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBS8157F2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : 0
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 6/6/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 6/5/2008
Surrogate(s :	629992	Pentacosane	110	%Rec	
	*400009	TPH-GC/Diesel Range Organics	91	%Rec	

OBS8157F2 LCSD

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8140B1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : 0
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/21/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/19/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	0.25	mg/L	U
	*400010	TPH-GC/Motor Oil Range Organic s	0.50	mg/L	U
Surrogate(s :	629992	Pentacosane	90	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8140F1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : 0
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/21/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/19/2008
Surrogate(s :	629992	Pentacosane	93	%Rec	
	*400009	TPH-GC/Diesel Range Organics	88	%Rec	

Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8140F2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCSD
Station Description:			

		Result	Units	Qlfr
GC				
Parameter : Tot Petroleum Hyd, Diesel extended				Container ID : 0
Method : NWTPH-DX	Diesel range organics			Analysis Date : 5/21/2008
Prep Method : 3540/608	Soxhlet extraction			Prep Date : 5/19/2008
Surrogate(s : 629992	Pentacosane	95	%Rec	
*400009	TPH-GC/Diesel Range Organics	79	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8141B1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	Blank
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd. Diesel extended				Container ID : 0
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/21/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/20/2008
Analytes(s):	*400009	TPH-GC/Diesel Range Organics	0.25	mg/L	U
	*400010	TPH-GC/Motor Oil Range Organic s	0.50	mg/L	U
Surrogate(s :	629992	Pentacosane	98	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8141F1
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCS
Station Description:			

	Result	Units	Qlfr

GC

Parameter : Tot Petroleum Hyd, Diesel extended — Container ID : 0
Method : NWTPH-DX Diesel range organics — Analysis Date : 5/21/2008
Prep Method : 3540/608 Soxhlet extraction — Prep Date : 5/20/2008

Surrogate(s :	629992	Pentacosane	84	%Rec	
	*400009	TPH-GC/Diesel Range Organics	66	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-916A

Project Code:	TEC-916A	**Collected:**	
Project Name:	BREMERTON GASWORKS	**Matrix:**	Liquid
Project Officer:	JOANNE LABAW	**Sample Number:**	OBW8141F2
Account Code:	0809BT10P402D43CG000LA00	**Type:**	LCSD
Station Description:			

			Result	Units	Qlfr
GC					
Parameter	: Tot Petroleum Hyd, Diesel extended				Container ID : 0
Method	: NWTPH-DX	Diesel range organics			Analysis Date : 5/21/2008
Prep Method	: 3540/608	Soxhlet extraction			Prep Date : 5/20/2008
Surrogate(s :	629992	Pentacosane	104	%Rec	
	*400009	TPH-GC/Diesel Range Organics	91	%Rec	

OBW8141F2 LCSD

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: June 23, 2008

TO: Renee Nordeen, START-3 Project Manager, E & E, Seattle, WA

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Inorganic Data Summary Check,**
Bremerton Gasworks Properties, Bremerton, Washington

REF: TDD: 07-01-0008 PAN: 002233.0178.01BR

The data summary check of 10 soil samples collected from the Bremerton Gasworks Properties site located in Bremerton, Washington, has been completed. Analysis for Total Arsenic (EPA CLP SOW ILM05.4) was performed by Bonner Analytical, Hattiesburg, Mississippi.

The samples were numbered:

MJ8K30	MJ8K31	MJ8K32	MJ8K33	MJ8K34
MJ8K35	MJ8K37	MJ8K38	MJ8K40	MJ8K86

A cursory assessment of the data was provided.

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue, Suite 900
Seattle, Washington 98101

June 17, 2008

Reply To
Attn. Of: **OEA-095**

MEMORANDUM

SUBJECT: Data Transmittal for Bremerton Gasworks TBA, Case# 37435, SDG: MJ8K31, Inorganic Analysis

FROM: Donald Matheny, Chemist DM
Environmental Services Unit, OEA

TO: Joanne LaBaw, Project Manager
Office of Environmental Cleanup (ECL-115)

CC: Renee Nordeen, Ecology & Environment

The following data are being transmitted for the above project. Ten (10) soil samples were analyzed for total arsenic by Bonner Analytical, Hattiesburg, MS. Sample numbers for this delivery group are:

MJ8K30	MJ8K31	MJ8K32	MJ8K33	MJ8K34
MJ8K35	MJ8K37	MJ8K38	MJ8K40	MJ8K86

A cursory assessment of the data indicates the following:

Matrix spike and duplicate analyses were compliant. The arsenic concentration in the serial dilution sample was too low to evaluate (<50 x IDL).

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K30

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1559.0 SDG No.: MJ8K31

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805064-01

Level: (low/med) LOW Date Received: 05/21/2008

% Solids 90.6

Concentration Units (**ug/L** or **mg/kg** dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.2			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K31

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1559.0 SDG No.: MJ8K31

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805064-02

Level: (low/med) LOW Date Received: 05/21/2008

% Solids 90.9

Concentration Units (**ug/L** or **mg/kg** dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.82			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K32

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1559.0 SDG No.: MJ8K31

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805064-03

Level: (low/med) LOW Date Received: 05/21/2008

% Solids 94.2

Concentration Units (**ug/L** or **mg/kg** dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.49			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

BREMERTON-012431

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K33

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1559.0 SDG No.: MJ8K31

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805064-04

Level: (low/med) LOW Date Received: 05/21/2008

% Solids 88.9

Concentration Units (**ug/L** or **mg/kg** dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.50			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K34

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1559.0 SDG No.: MJ8K31

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805064-05

Level: (low/med) LOW Date Received: 05/21/2008

% Solids 93.4

Concentration Units (**ug/L** or **mg/kg** dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.77			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

BREMERTON-012433

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K35

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1559.0 SDG No.: MJ8K31

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805064-06

Level: (low/med) LOW Date Received: 05/21/2008

% Solids 93.8

Concentration Units (**ug/L** or **mg/kg** dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.68			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K37

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1559.0 SDG No.: MJ8K31

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805064-07

Level: (low/med) LOW Date Received: 05/21/2008

% Solids 78.8

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

BREMERTON-012435

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K38

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1559.0 SDG No.: MJ8K31

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805064-08

Level: (low/med) LOW Date Received: 05/21/2008

% Solids 92.0

Concentration Units (**ug/L** or **mg/kg** dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.86			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K40

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1559.0 SDG No.: MJ8K31

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805064-09

Level: (low/med) LOW Date Received: 05/21/2008

% Solids 84.7

Concentration Units (**ug/L** or **mg/kg** dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.97			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K86

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1559.0 SDG No.: MJ8K31

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805064-10

Level: (low/med) LOW Date Received: 05/21/2008

% Solids 88.2

Concentration Units (**ug/L** or **mg/kg** dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.92			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: June 23, 2008

TO: Renee Nordeen, START-3 Project Manager, E & E, Seattle, WA

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Inorganic Data Summary Check,**
Bremerton Gasworks Properties, Bremerton, Washington

REF: TDD: 07-01-0008 PAN: 002233.0178.01BR

The data summary check of 13 soil samples collected from the Bremerton Gasworks Properties site located in Bremerton, Washington, has been completed. Analysis for total arsenic (EPA CLP SOW ILM05.4) was performed by Bonner Analytical, Hattiesburg, Mississippi.

The samples were numbered:

MJ8K66	MJ8K68	MJ8K69	MJ8K70	MJ8K71
MJ8K72	MJ8K73	MJ8K79	MJ8K80	MJ8K81
MJ8K82	MJ8K83	MJ8K84		

A cursory assessment of the data was provided with no qualifiers added. The secondary reviewer added the listed validation qualifiers.

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue, Suite 900
Seattle, Washington 98101

June 17, 2008

Reply To
Attn. Of: OEA-095

MEMORANDUM

SUBJECT: Data Transmittal for Bremerton Gasworks TBA, Case# 37435, SDG: MJ8K68, Inorganic Analysis

FROM: Donald Matheny, Chemist DM
Environmental Services Unit, OEA

TO: Joanne LaBaw, Project Manager
Office of Environmental Cleanup (ECL-115)

CC: Renee Nordeen, Ecology & Environment

The following data are being transmitted for the above project. Thirteen (13) soil samples were analyzed for total arsenic by Bonner Analytical, Hattiesburg, MS. Sample numbers for this delivery group are:

MJ8K66	MJ8K68	MJ8K69	MJ8K70	MJ8K71	MJ8K72	MJ8K73
MJ8K79	MJ8K80	MJ8K81	MJ8K82	MJ8K83	MJ8K84	

A cursory assessment of the data indicates the following: Matrix spike and duplicate analyses were compliant. The arsenic concentration in the serial dilution sample was too low to evaluate (<50 x IDL).

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K66

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K68

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805050-01

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 82.4

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.28			P

Color Before: BROWN Clarity Before: Texture: COARSE

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012442

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K68

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K68

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805050-02

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 82.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.17			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012443

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K69

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K68

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805050-03

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 61.7

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	7.85			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012444

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K70

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K68

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805050-04

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 99.8

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.87			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012445

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K71

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K68

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805050-05

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 79.8

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.89			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012446

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K72

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K68

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805050-06

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 78.5

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.47			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012447

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K73

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K68

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805050-07

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 77.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.53			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012448

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K79

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K68

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805050-08

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 76.0

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.57			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012449

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K80

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K68

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805050-09

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 80.3

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.21			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012450

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K81

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K68

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805050-10

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 84.2

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.62			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012451

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K82

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K68

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805050-11

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 87.8

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.56			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012452

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K83

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K68

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805050-12

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 84.4

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.68			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012453

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K84

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K68

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805050-13

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 80.3

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.20			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012454

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: July 15, 2008

TO: Renee Nordeen, START-3 Project Manager, E & E, Seattle, WA

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington

SUBJ: **Inorganic Data Summary Check,**
Bremerton Gasworks Properties, Bremerton, Washington

REF: TDD: 07-01-0008 PAN: 002233.0178.01BR

The data summary check of 5 sediment samples collected from the Bremerton Gasworks Properties site located in Bremerton, Washington, has been completed. Analysis for total arsenic (EPA CLP SOW ILM05.4) was performed by Bonner Analytical, Hattiesburg, Mississippi.

The samples were numbered:

MJ8J74	MJ8J75	MJ8J76	MJ8J77	MJ8J78

A cursory assessment of the data was provided with no qualifiers added.

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue, Suite 900
Seattle, Washington 98101

July 11, 2008

Reply To
Attn. Of: **OEA-095**

MEMORANDUM

SUBJECT: Data Transmittal for Bremerton Gasworks TBA, Case# 37435, SDG: MJ8J75, Inorganic Analysis

FROM: Donald Matheny, Chemist DM
Environmental Services Unit, OEA

TO: Joanne LaBaw, Project Manager
Office of Environmental Cleanup (ECL-115)

CC: Renee Nordeen, Ecology & Environment

The following data are being transmitted for the above project. Five (5) sediment samples were analyzed for total arsenic by Bonner Analytical, Hattiesburg, MS. Sample numbers for this delivery group are:

MJ8J74 MJ8J75 MJ8J76 MJ8J77 MJ8J78

A cursory assessment of the data indicates the following:

All QC for this sample set were in compliance. The "*" qualifier applied by the lab indicates that the sample duplicate result of 25% did not meet the 20% RPD criteria applied to water samples but it was well within the Region 10 applied 35% RPD criteria for solids. This qualifier should be ignored.

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8J74

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1559.0 SDG No.: MJ8J75

Matrix: (Soil/Water) SOIL Lab Sample ID: 0806024-01

Level: (low/med) LOW Date Received: 06/06/2008

% Solids 73.3

Concentration Units (**ug/L** or **mg/kg** dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.3			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

BREMERTON-012458

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8J75

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1559.0 SDG No.: MJ8J75

Matrix: (Soil/Water) SOIL Lab Sample ID: 0806024-02

Level: (low/med) LOW Date Received: 06/06/2008

% Solids 79.5

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.3			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

BREMERTON-012459

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8J76

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1559.0 SDG No.: MJ8J75

Matrix: (Soil/Water) SOIL Lab Sample ID: 0806024-03

Level: (low/med) LOW Date Received: 06/06/2008

% Solids 72.2

Concentration Units (**ug/L** or **mg/kg** dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.1			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

BREMERTON-012460

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8J77

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1559.0 SDG No.: MJ8J75

Matrix: (Soil/Water) SOIL Lab Sample ID: 0806024-04

Level: (low/med) LOW Date Received: 06/06/2008

% Solids 81.6

Concentration Units (**ug/L** or **mg/kg** dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.6			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

BREMERTON-012461

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8J78

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1559.0 SDG No.: MJ8J75

Matrix: (Soil/Water) SOIL Lab Sample ID: 0806024-05

Level: (low/med) LOW Date Received: 06/06/2008

% Solids 83.6

Concentration Units (**ug/L** or **mg/kg** dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.5			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

BREMERTON-012462

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: June 23, 2008

TO: Renee Nordeen, START-3 Project Manager, E & E, Seattle, WA

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Inorganic Data Summary Check,**
Bremerton Gasworks Properties, Bremerton, Washington

REF: TDD: 07-01-0008 PAN: 002233.0178.01BR

The data summary check of 20 soil samples collected from the Bremerton Gasworks Properties site located in Bremerton, Washington, has been completed. Analysis for total arsenic (EPA CLP SOW ILM05.4) was performed by Bonner Analytical, Hattiesburg, Mississippi.

The samples were numbered:

MJ8K23	MJ8K24	MJ8K25	MJ8K26	MJ8K27
MJ8K28	MJ8K44	MJ8K45	MJ8K46	MJ8K47
MJ8K48	MJ8K54	MJ8K55	MJ8K56	MJ8K57
MJ8K61	MJ8K62	MJ8K63	MJ8K64	MJ8K65

A cursory assessment of the data was provided.

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue, Suite 900
Seattle, Washington 98101

June 17, 2008

Reply To
Attn. Of: OEA-095

MEMORANDUM

SUBJECT: Data Transmittal for Bremerton Gasworks TBA, Case# 37435, SDG: MJ8K24, Inorganic Analysis

FROM: Donald Matheny, Chemist
Environmental Services Unit, OEA

TO: Joanne LaBaw, Project Manager
Office of Environmental Cleanup (ECL-115)

CC: Renee Nordeen, Ecology & Environment

The following data are being transmitted for the above project. Twenty (20) soil samples were analyzed for total arsenic by Bonner Analytical, Hattiesburg, MS. Sample numbers for this delivery group are:

MJ8K23	MJ8K24	MJ8K25	MJ8K26	MJ8K27	MJ8K28	MJ8K44
MJ8K45	MJ8K46	MJ8K47	MJ8K48	MJ8K54	MJ8K55	MJ8K56
MJ8K57	MJ8K61	MJ8K62	MJ8K63	MJ8K64	MJ8K65	

A cursory assessment of the data indicates the following: Matrix spike and duplicate analyses were compliant. The arsenic concentration in the serial dilution sample was too low to evaluate (<50 x IDL).

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K23

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K24

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805048-01

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 91.3

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.08			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012466

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K24

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K24

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805048-02

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 93.5

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.98			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012467

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K25

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K24

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805048-03

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 94.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.87			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012468

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K26

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K24

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805048-04

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 95.4

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.77			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012469

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K27

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K24

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805048-05

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 84.8

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.03			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012470

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K28

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K24

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805048-06

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 91.8

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.62			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012471

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K44

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K24

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805048-07

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 88.4

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.46			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012472

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K45

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K24

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805048-08

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 92.9

Concentration Units (ug/L or ng/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.80			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012473

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K46

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K24

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805048-09

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 83.6

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.04			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012474

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K47

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K24

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805048-10

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 88.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.01			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012475

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K48

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K24

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805048-11

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 79.2

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.64			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012476

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K54

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K24

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805048-12

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 85.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.08			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012477

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K55

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K24

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805048-13

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 89.6

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.13			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012478

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K56

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K24

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805048-14

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 84.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.78			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012479

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K57

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K24

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805048-15

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 77.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.52			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012480

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K61

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K24

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805048-16

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 79.6

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.04			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012481

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K62

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K24

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805048-17

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 76.7

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.71			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012482

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K63

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K24

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805048-18

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 77.9

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.70	U		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012483

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K64

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K24

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805048-19

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 78.0

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.39			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012484

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8K65

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG No.: MJ8K24

Matrix: (Soil/Water) SOIL Lab Sample ID: 0805048-20

Level: (low/med) LOW Date Received: 05/17/2008

% Solids 86.1

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.17			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

BREMERTON-012485

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720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: July 15, 2008

TO: Renee Nordeen, START-3 Project Manager, E & E, Seattle, WA

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Inorganic Data Summary Check,**
Bremerton Gasworks Properties, Bremerton, Washington

REF: TDD: 07-01-0008 PAN: 002233.0178.01BR

The data summary check of 5 sediment samples collected from the Bremerton Gasworks Properties site located in Bremerton, Washington, has been completed. Analysis for Target Analyte List (TAL) metals (EPA CLP SOW ILM05.4) was performed by Bonner Analytical, Hattiesburg, Mississippi.

The samples were numbered:

MJ8J74 MJ8J75 MJ8J76 MJ8J77 MJ8J78

A cursory assessment of the data was provided with no qualifiers added. The secondary reviewer applied "Q" bias qualifiers to positive results less than the Contract Required Quantitation Limit.

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue, Suite 900
Seattle, Washington 98101

July 11, 2008

Reply To
Attn. Of: **OEA-095**

MEMORANDUM

SUBJECT: Data Transmittal for Bremerton Gasworks TBA, Case# 37435, SDG: MJ8J74, Inorganic Analysis

FROM: Donald Matheny, Chemist
Environmental Services Unit, OEA

TO: Joanne LaBaw, Project Manager
Office of Environmental Cleanup (ECL-115)

CC: Renee Nordeen, Ecology & Environment

The following data are being transmitted for the above project. Five (5) sediment samples were analyzed for total elements by Bonner Analytical, Hattiesburg, MS. Sample numbers for this delivery group are:

MJ8J74 MJ8J75 MJ8J76 MJ8J77 MJ8J78

A cursory assessment of the data indicates the following:

Aluminum, barium, calcium, chromium, iron, nickel and zinc duplicate values exceeded the 35% RPD criteria. These analytes should be (J) or (UJ) qualified with no indication of bias.

Beryllium, manganese and vanadium duplicate results were within the 35% RPD criteria. The laboratory applied '*' qualifier can be ignored.

Lead (72%) and antimony (24%) matrix spike recoveries were low. Lead data should be qualified (J or UJ) with a low bias. Antimony detects should be qualified (J) and non-detects qualified (R) with a low bias.

The serial dilution results were all compliant. The laboratory applied 'E' qualifiers can be ignored.

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8J74

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1559.0 SDG No.: MJ8J74

Matrix: (Soil/Water) SOIL Lab Sample ID: 0806023-01

Level: (low/med) LOW Date Received: 06/06/2008

% Solids 73.3

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9030	J	E	P
7440-36-0	Antimony	3.9	J	Q	P
7440-39-3	Barium	19.1	J	Q	P
7440-41-7	Beryllium	2.7		E	P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	33600	J	E	P
7440-47-3	Chromium	21.2	J		P
7440-48-4	Cobalt	3.7	J	Q	P
7440-50-8	Copper	26.7			P
7439-89-6	Iron	12500	J	E	P
7439-92-1	Lead	16.1	J	N J	P
7439-95-4	Magnesium	4210			P
7439-96-5	Manganese	168		E	P
7439-97-6	Mercury	~~NR~~ 0.0238	J	Q	CV
7440-02-0	Nickel	26.7	J		P
7440-09-7	Potassium	603			P
7782-49-2	Selenium	3.5	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	1390		E	P
7440-28-0	Thallium	2.5	U		P
7440-62-2	Vanadium	29.8			P
7440-66-6	Zinc	79.9	J	W J	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

BREMERTON-012488

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8J75

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1559.0 SDG No.: MJ8J74

Matrix: (Soil/Water) SOIL Lab Sample ID: 0806023-02

Level: (low/med) LOW Date Received: 06/06/2008

% Solids 79.5

Concentration Units (**ug/L** or **mg/kg** dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7130	J		P
7440-36-0	Antimony	6.0	U	R	P
7440-39-3	Barium	30.2	J		P
7440-41-7	Beryllium	2.1			P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	5530	J		P
7440-47-3	Chromium	19.3	J		P
7440-48-4	Cobalt	3.9	J		P
7440-50-8	Copper	22.1			P
7439-89-6	Iron	14000	J		P
7439-92-1	Lead	19.4	J		P
7439-95-4	Magnesium	4640			P
7439-96-5	Manganese	180			P
7439-97-6	Mercury	0.028	J		CV
7440-02-0	Nickel	33.5	J		P
7440-09-7	Potassium	563			P
7782-49-2	Selenium	3.5	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	996			P
7440-28-0	Thallium	2.5	U		P
7440-62-2	Vanadium	27.8			P
7440-66-6	Zinc	57.4	J		P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

BREMERTON-012489

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8J76

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1559.0 SDG No.: MJ8J74

Matrix: (Soil/Water) SOIL Lab Sample ID: 0806023-03

Level: (low/med) LOW Date Received: 06/06/2008

% Solids 72.2

Concentration Units (**ug/L** or **mg/kg** dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7640	J	E MW J	P
7440-36-0	Antimony	R ~~6.0~~	~~U~~	MW	P
7440-39-3	Barium	47.0	J	MW J	P
7440-41-7	Beryllium	2.3		E MW	P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	17200	J	E MW J	P
7440-47-3	Chromium	20.2	J	MW J	P
7440-48-4	Cobalt	26.3			P
7440-50-8	Copper	71.7			P
7439-89-6	Iron	15900	J	E MW J	P
7439-92-1	Lead	30.0	J	MW J	P
7439-95-4	Magnesium	3970		E MW	P
7439-96-5	Manganese	166		E MW	P
7439-97-6	Mercury	0.021	J Q		CV
7440-02-0	Nickel	52.6	J	MW J	P
7440-09-7	Potassium	494	J Q		P
7782-49-2	Selenium	0.41	J Q		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	1560		E MW	P
7440-28-0	Thallium	2.5	U		P
7440-62-2	Vanadium	36.5		MW	P
7440-66-6	Zinc	78.9	J	MW J	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

BREMERTON-012490

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8J77

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1559.0 SDG No.: MJ8J74

Matrix: (Soil/Water) SOIL Lab Sample ID: 0806023-04

Level: (low/med) LOW Date Received: 06/06/2008

% Solids 81.6

Concentration Units (**ug/L** or **mg/kg** dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6290			P
7440-36-0	Antimony	~~6.0~~ R	U		P
7440-39-3	Barium	16.6	J	Q	P
7440-41-7	Beryllium	2.0			P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	6140			P
7440-47-3	Chromium	17.5			P
7440-48-4	Cobalt	3.5	J	Q	P
7440-50-8	Copper	13.5			P
7439-89-6	Iron	11400			P
7439-92-1	Lead	10.1			P
7439-95-4	Magnesium	4110			P
7439-96-5	Manganese	135			P
7439-97-6	Mercury	0.021	J	Q	CV
7440-02-0	Nickel	25.3			P
7440-09-7	Potassium	497	J	Q	P
7782-49-2	Selenium	3.5	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	1930			P
7440-28-0	Thallium	2.5	U		P
7440-62-2	Vanadium	25.0			P
7440-66-6	Zinc	36.5			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

BREMERTON-012491

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MJ8J78

Lab Name: Bonner Analytical Testing Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1559.0 SDG No.: MJ8J74

Matrix: (Soil/Water) SOIL Lab Sample ID: 0806023-05

Level: (low/med) LOW Date Received: 06/06/2008

% Solids 83.6

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

CAS NO.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6020	J	E	P
7440-36-0	Antimony	6.0	R		P
7440-39-3	Barium	13.3	J	Q	P
7440-41-7	Beryllium	1.9		E	P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	2390	J	E	P
7440-47-3	Chromium	16.6	J		P
7440-48-4	Cobalt	3.0	J	Q	P
7440-50-8	Copper	8.6			P
7439-89-6	Iron	9730	J	E	P
7439-92-1	Lead	8.9	J		P
7439-95-4	Magnesium	3350		E	P
7439-96-5	Manganese	174		E	P
7439-97-6	Mercury	0.10			CV
7440-02-0	Nickel	21.4	J		P
7440-09-7	Potassium	415	J	Q	P
7782-49-2	Selenium	3.5	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	605		E	P
7440-28-0	Thallium	2.5	U		P
7440-62-2	Vanadium	21.6			P
7440-66-6	Zinc	23.2	J		P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

BREMERTON-012492

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: June 23, 2008

TO: Renee Nordeen, START-3 Project Manager, E & E, Seattle, WA

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Inorganic Data Summary Check,**
Bremerton Gasworks Properties, Bremerton, Washington

REF: TDD: 07-01-0008 PAN: 002233.0178.01BR

The data summary check of 13 soil samples collected from the Bremerton Gasworks Properties site located in Bremerton, Washington, has been completed. Analysis for Target Analyte List (TAL) metals (EPA CLP SOW ILM05.4) was performed by Bonner Analytical, Hattiesburg, Mississippi.

The samples were numbered:

MJ8K66	MJ8K68	MJ8K69	MJ8K70	MJ8K71
MJ8K72	MJ8K73	MJ8K79	MJ8K80	MJ8K81
MJ8K82	MJ8K83	MJ8K84		

A cursory assessment of the data was provided with no qualifiers added. The secondary reviewer applied "Q" bias qualifiers to positive results less than the Contract Required Quantitation Limit.

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue, Suite 900
Seattle, Washington 98101

June 17, 2008

Reply To
Attn. Of: OEA-095

MEMORANDUM

SUBJECT: Data Transmittal for Bremerton Gasworks TBA, Case# 37435, SDG: MJ8K66, Inorganic Analysis

FROM: Donald Matheny, Chemist DM
Environmental Services Unit, OEA

TO: Joanne LaBaw, Project Manager
Office of Environmental Cleanup (ECL-115)

CC: Renee Nordeen, Ecology & Environment

The following data are being transmitted for the above project. Thirteen (13) soil samples were analyzed for total elements by Bonner Analytical, Hattiesburg, MS. Sample numbers for this delivery group are:

MJ8K66	MJ8K68	MJ8K69	MJ8K70	MJ8K71	MJ8K72	MJ8K73
MJ8K79	MJ8K80	MJ8K81	MJ8K82	MJ8K83	MJ8K84	

A cursory assessment of the data indicates the following:

The matrix spike recovery for antimony was 49%. Antimony values should be estimates with a low bias.

The serial dilution percent difference for chromium was 19% with an indication of high bias. Chromium values should be estimates.

USEPA - CLP

1A-IN

16

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K66

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K66

Matrix (soil/water): SOIL Lab Sample ID: 0805049-01

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 82.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7380			P
7440-36-0	Antimony	7.3	UJ		P
7440-39-3	Barium	28.5			P
7440-41-7	Beryllium	0.16	J		P
7440-43-9	Cadmium	0.23	J		P
7440-70-2	Calcium	3640			P
7440-47-3	Chromium	18.9			P
7440-48-4	Cobalt	5.4	J		P
7440-50-8	Copper	9.5			P
7439-89-6	Iron	11100			P
7439-92-1	Lead	0.60	J		P
7439-95-4	Magnesium	4600			P
7439-96-5	Manganese	170			P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	32.3			P
7440-09-7	Potassium	401	J		P
7782-49-2	Selenium	4.2	U		P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	197	J		P
7440-28-0	Thallium	1.8	J		P
7440-62-2	Vanadium	25.4			P
7440-66-6	Zinc	22.3			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012495

USEPA - CLP

1A-IN

17

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K68

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K66

Matrix (soil/water): SOIL Lab Sample ID: 0805049-02

Level (low/med): LOW Date Received: 05/17/2008

Solids: 82.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14900			P
7440-36-0	Antimony	7.2			P
7440-39-3	Barium	71.3			P
7440-41-7	Beryllium	0.34	J	Q	P
7440-43-9	Cadmium	1.2			P
7440-70-2	Calcium	7440			P
7440-47-3	Chromium	28.1			P
7440-48-4	Cobalt	10.3			P
7440-50-8	Copper	45.7			P
7439-89-6	Iron	24300			P
7439-92-1	Lead	31.2			P
7439-95-4	Magnesium	5130			P
7439-96-5	Manganese	388			P
7439-97-6	Mercury	0.051	J	Q	CV
7440-02-0	Nickel	60.9			P
7440-09-7	Potassium	563	J	Q	P
7782-49-2	Selenium	4.2	U		P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	263	J	Q	P
7440-28-0	Thallium	3.0			P
7440-62-2	Vanadium	54.1			P
7440-66-6	Zinc	114			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012496

USEPA - CLP

1A-IN

18

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K69

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K66

Matrix (soil/water): SOIL Lab Sample ID: 0805049-03

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 61.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5780			P
7440-36-0	Antimony	1.2	J	JQ	P
7440-39-3	Barium	74.1			P
7440-41-7	Beryllium	0.14	JQ		P
7440-43-9	Cadmium	1.6			P
7440-70-2	Calcium	21300			P
7440-47-3	Chromium	59.9	J	TM J	P
7440-48-4	Cobalt	3.3	JQ		P
7440-50-8	Copper	62.7			P
7439-89-6	Iron	47800			P
7439-92-1	Lead	128			P
7439-95-4	Magnesium	1380			P
7439-96-5	Manganese	215			P
7439-97-6	Mercury	0.098	JQ		CV
7440-02-0	Nickel	28.4			P
7440-09-7	Potassium	233	JQ		P
7782-49-2	Selenium	5.7	U		P
7440-22-4	Silver	1.6	U		P
7440-23-5	Sodium	377	JQ		P
7440-28-0	Thallium	4.1	U		P
7440-62-2	Vanadium	30.2			P
7440-66-6	Zinc	376			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012497

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

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EPA SAMPLE NO.

MJ8K70

ab Name: Bonner Analytical Testing Compa Contract: EPW06055

ab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K66

atrix (soil/water): SOIL Lab Sample ID: 0805049-04

evel (low/med): LOW Date Received: 05/17/2008

Solids: 99.8

oncentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14700			P
7440-36-0	Antimony	6.0	U		P
7440-39-3	Barium	63.9			P
7440-41-7	Beryllium	0.31	J	Q	P
7440-43-9	Cadmium	0.60			P
7440-70-2	Calcium	4410			P
7440-47-3	Chromium	32.0			P
7440-48-4	Cobalt	11.9			P
7440-50-8	Copper	24.6			P
7439-89-6	Iron	21000			P
7439-92-1	Lead	2.8			P
7439-95-4	Magnesium	5520			P
7439-96-5	Manganese	339			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	40.2			P
7440-09-7	Potassium	587			P
7782-49-2	Selenium	3.5	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	171	J	Q	P
7440-28-0	Thallium	3.9			P
7440-62-2	Vanadium	47.2			P
7440-66-6	Zinc	44.3			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012498

USEPA - CLP

1A-IN

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K71

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K66

Matrix (soil/water): SOIL Lab Sample ID: 0805049-05

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 79.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	18200			P
7440-36-0	Antimony	7.5	U		P
7440-39-3	Barium	94.0			P
7440-41-7	Beryllium	0.41	J		P
7440-43-9	Cadmium	0.91			P
7440-70-2	Calcium	7080			P
7440-47-3	Chromium	48.3			P
7440-48-4	Cobalt	14.1			P
7440-50-8	Copper	41.2			P
7439-89-6	Iron	33000			P
7439-92-1	Lead	4.5			P
7439-95-4	Magnesium	9970			P
7439-96-5	Manganese	824			P
7439-97-6	Mercury	0.058	J		CV
7440-02-0	Nickel	52.9			P
7440-09-7	Potassium	1240			P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	468	J		P
7440-28-0	Thallium	5.1			P
7440-62-2	Vanadium	73.4			P
7440-66-6	Zinc	62.7			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012499

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

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EPA SAMPLE NO.

MJ8K72

ab Name: Bonner Analytical Testing Compa Contract: EPW06055

ab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K66

atrix (soil/water): SOIL Lab Sample ID: 0805049-06

evel (low/med): LOW Date Received: 05/17/2008

Solids: 78.5

oncentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19600			P
7440-36-0	Antimony	7.6	UJ		P
7440-39-3	Barium	101			P
7440-41-7	Beryllium	0.43	J	Q	P
7440-43-9	Cadmium	0.88			P
7440-70-2	Calcium	7250			P
7440-47-3	Chromium	46.2	J		P
7440-48-4	Cobalt	15.5			P
7440-50-8	Copper	43.7			P
7439-89-6	Iron	32400			P
7439-92-1	Lead	4.7			P
7439-95-4	Magnesium	12200			P
7439-96-5	Manganese	520			P
7439-97-6	Mercury	0.062	J	Q	CV
7440-02-0	Nickel	56.5			P
7440-09-7	Potassium	1570			P
7782-49-2	Selenium	4.5	U		P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	527	J	Q	P
7440-28-0	Thallium	4.6			P
7440-62-2	Vanadium	70.4			P
7440-66-6	Zinc	65.7			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012500

USEPA - CLP

1A-IN

22

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K73

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K66

Matrix (soil/water): SOIL Lab Sample ID: 0805049-07

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 77.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22000			P
7440-36-0	Antimony	7.7	U		P
7440-39-3	Barium	110			P
7440-41-7	Beryllium	0.49	J	Q	P
7440-43-9	Cadmium	1.1			P
7440-70-2	Calcium	7940			P
7440-47-3	Chromium	53.3			P
7440-48-4	Cobalt	17.3			P
7440-50-8	Copper	52.1			P
7439-89-6	Iron	36500			P
7439-92-1	Lead	5.2			P
7439-95-4	Magnesium	14300			P
7439-96-5	Manganese	662			P
7439-97-6	Mercury	0.065	J	Q	CV
7440-02-0	Nickel	62.2			P
7440-09-7	Potassium	1900			P
7782-49-2	Selenium	4.5	U		P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	565	J	Q	P
7440-28-0	Thallium	5.5			P
7440-62-2	Vanadium	77.8			P
7440-66-6	Zinc	76.7			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012501

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

23

EPA SAMPLE NO.

MJ8K79

ab Name: Bonner Analytical Testing Compa Contract: EPW06055

ab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K66

atrix (soil/water): SOIL Lab Sample ID: 0805049-08

evel (low/med): LOW Date Received: 05/17/2008

Solids: 76.0

oncentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22500			P
7440-36-0	Antimony	7.9			P
7440-39-3	Barium	113			P
7440-41-7	Beryllium	0.51	J	Q	P
7440-43-9	Cadmium	1.2			P
7440-70-2	Calcium	7900			P
7440-47-3	Chromium	54.7			P
7440-48-4	Cobalt	18.1			P
7440-50-8	Copper	54.0			P
7439-89-6	Iron	37200			P
7439-92-1	Lead	5.4			P
7439-95-4	Magnesium	14900			P
7439-96-5	Manganese	678			P
7439-97-6	Mercury	0.062	J	Q	CV
7440-02-0	Nickel	65.3			P
7440-09-7	Potassium	2000			P
7782-49-2	Selenium	4.6	U		P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	543	J	Q	P
7440-28-0	Thallium	5.7			P
7440-62-2	Vanadium	80.1			P
7440-66-6	Zinc	79.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012502

USEPA - CLP

1A-IN

24

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K80

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K66

Matrix (soil/water): SOIL Lab Sample ID: 0805049-09

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 80.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19600			P
7440-36-0	Antimony	7.5	UJ		P
7440-39-3	Barium	93.9			P
7440-41-7	Beryllium	0.43	J		P
7440-43-9	Cadmium	0.91			P
7440-70-2	Calcium	7230			P
7440-47-3	Chromium	46.7			P
7440-48-4	Cobalt	15.6			P
7440-50-8	Copper	44.5			P
7439-89-6	Iron	32400			P
7439-92-1	Lead	4.3			P
7439-95-4	Magnesium	12500			P
7439-96-5	Manganese	515			P
7439-97-6	Mercury	0.055	J		CV
7440-02-0	Nickel	56.2			P
7440-09-7	Potassium	1690			P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	544	J		P
7440-28-0	Thallium	5.0			P
7440-62-2	Vanadium	71.3			P
7440-66-6	Zinc	67.4			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012503

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

25

EPA SAMPLE NO.

MJ8K81

ab Name: Bonner Analytical Testing Compa Contract: EPW06055

ab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K66

atrix (soil/water): SOIL Lab Sample ID: 0805049-10

evel (low/med): LOW Date Received: 05/17/2008

Solids: 84.2

oncentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8430			P
7440-36-0	Antimony	7.1	U		P
7440-39-3	Barium	31.3			P
7440-41-7	Beryllium	0.20	J		P
7440-43-9	Cadmium	0.29	J		P
7440-70-2	Calcium	3740			P
7440-47-3	Chromium	21.2			P
7440-48-4	Cobalt	6.4			P
7440-50-8	Copper	12.9			P
7439-89-6	Iron	13600			P
7439-92-1	Lead	0.81	J		P
7439-95-4	Magnesium	4820			P
7439-96-5	Manganese	235			P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	31.7			P
7440-09-7	Potassium	413	J		P
7782-49-2	Selenium	4.2	U		P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	209	J		P
7440-28-0	Thallium	2.2	J		P
7440-62-2	Vanadium	29.9			P
7440-66-6	Zinc	33.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012504

USEPA - CLP

1A-IN

26

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K82

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K66

Matrix (soil/water): SOIL Lab Sample ID: 0805049-11

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 87.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7900			P
7440-36-0	Antimony	6.8	~~UJ~~ L		P
7440-39-3	Barium	27.3			P
7440-41-7	Beryllium	0.17	JQ		P
7440-43-9	Cadmium	0.24	JQ		P
7440-70-2	Calcium	3770			P
7440-47-3	Chromium	21.7	J		P
7440-48-4	Cobalt	5.8			P
7440-50-8	Copper	12.2			P
7439-89-6	Iron	12600			P
7439-92-1	Lead	0.72	JQ		P
7439-95-4	Magnesium	4580			P
7439-96-5	Manganese	217			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	28.4			P
7440-09-7	Potassium	372	JQ		P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	209	JQ		P
7440-28-0	Thallium	2.4	JQ		P
7440-62-2	Vanadium	27.7			P
7440-66-6	Zinc	28.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012505

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

27

EPA SAMPLE NO.

MJ8K83

ab Name: Bonner Analytical Testing Compa Contract: EPW06055

ab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K66

atrix (soil/water): SOIL Lab Sample ID: 0805049-12

evel (low/med): LOW Date Received: 05/17/2008

Solids: 84.4

oncentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6370			P
7440-36-0	Antimony	7.1	U		P
7440-39-3	Barium	23.9			P
7440-41-7	Beryllium	0.12	J	Q	P
7440-43-9	Cadmium	0.20	J	Q	P
7440-70-2	Calcium	2960			P
7440-47-3	Chromium	14.6			P
7440-48-4	Cobalt	4.9	J	Q	P
7440-50-8	Copper	11.7			P
7439-89-6	Iron	10100			P
7439-92-1	Lead	1.2	U		P
7439-95-4	Magnesium	3650			P
7439-96-5	Manganese	179			P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	21.2			P
7440-09-7	Potassium	344	J	Q	P
7782-49-2	Selenium	4.1	U		P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	230	J	Q	P
7440-28-0	Thallium	1.6	J	Q	P
7440-62-2	Vanadium	23.6			P
7440-66-6	Zinc	19.3			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012506

USEPA - CLP

1A-IN

28

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K84

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K66

Matrix (soil/water): SOIL Lab Sample ID: 0805049-13

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 80.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	18500			P
7440-36-0	Antimony	7.5	U		P
7440-39-3	Barium	89.1			P
7440-41-7	Beryllium	0.41	J		P
7440-43-9	Cadmium	0.92			P
7440-70-2	Calcium	7150			P
7440-47-3	Chromium	48.1			P
7440-48-4	Cobalt	15.8			P
7440-50-8	Copper	41.5			P
7439-89-6	Iron	32600			P
7439-92-1	Lead	4.1			P
7439-95-4	Magnesium	11000			P
7439-96-5	Manganese	497			P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	54.0			P
7440-09-7	Potassium	1360			P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	422	J		P
7440-28-0	Thallium	4.7			P
7440-62-2	Vanadium	72.3			P
7440-66-6	Zinc	63.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012507

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: June 23, 2008

TO: Renee Nordeen, START-3 Project Manager, E & E, Seattle, WA

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Inorganic Data Summary Check,**
Bremerton Gasworks Properties, Bremerton, Washington

REF: TDD: 07-01-0008 PAN: 002233.0178.01BR

The data summary check of 8 water samples collected from the Bremerton Gasworks Properties site located in Bremerton, Washington, has been completed. Analysis for Target Analyte List (TAL) metals (EPA CLP SOW ILM05.4) was performed by Bonner Analytical, Hattiesburg, Mississippi.

The samples were numbered:

MJ8K22	MJ8K43	MJ8K50	MJ8K51	MJ8K52
MJ8K53	MJ8K60	MJ8K67		

A cursory assessment of the data was provided with no qualifiers added. The secondary reviewer applied "Q" bias qualifiers to positive results less than the Contract Required Quantitation Limit.

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue, Suite 900
Seattle, Washington 98101

June 16, 2008

Reply To
Attn. Of: **OEA-095**

MEMORANDUM

SUBJECT: Data Transmittal for Bremerton Gasworks TBA, Case# 37435, SDG: MJ8K22, Inorganic Analysis

FROM: Donald Matheny, Chemist
Environmental Services Unit, OEA

TO: Joanne LaBaw, Project Manager
Office of Environmental Cleanup (ECL-115)

CC: Renee Nordeen, Ecology & Environment

The following data are being transmitted for the above project. Eight (8) water samples were analyzed for total elements by Bonner Analytical, Hattiesburg, MS. Sample numbers for this delivery group are:

MJ8K22	MJ8K43	MJ8K50	MJ8K51
MJ8K52	MJ8K53	MJ8K60	MJ8K67

A cursory assessment of the data indicates the following:

Matrix spike recoveries were below 30% for antimony, cobalt, copper, nickel and zinc. In addition, cobalt, copper, nickel and zinc also had high percent differences for the serial dilution analysis with an indication of low bias. Detected values for these elements should be estimates with a low bias whereas non-detected values should be rejected.

Matrix spike recoveries for selenium and silver were 51% and 64% respectively. All values for these elements should be estimates with a low bias.

The matrix spike recovery for lead was 131%. Detected lead values should be estimates with a high bias.

No data validation qualifiers were applied to the data.

USEPA - CLP

1A-IN

14

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K22

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K22

Matrix (soil/water): WATER Lab Sample ID: 0805051-01

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.50	J	N	MS
7440-39-3	Barium	953			MS
7440-41-7	Beryllium	2.6			MS
7440-43-9	Cadmium	0.90	J		MS
7440-47-3	Chromium	304			MS
7440-48-4	Cobalt	23.0	J	N	MS
7440-50-8	Copper	44.8	J	N	MS
7439-92-1	Lead	43.2	J	N	MS
7439-96-5	Manganese	6580			MS
7440-02-0	Nickel	96.1	J	N	MS
7782-49-2	Selenium	1.4	J	N	MS
7440-22-4	Silver	0.26	J	N	MS
7440-28-0	Thallium	1.0			MS
7440-62-2	Vanadium	454			MS
7440-66-6	Zinc	72.0	J	N	MS

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

BREMERTON-012510

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

15

EPA SAMPLE NO.

MJ8K43

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K22

Matrix (soil/water): WATER Lab Sample ID: 0805051-02

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0 ~~0.42~~	~~JQ~~ U MW	N	MS
7440-39-3	Barium	174			MS
7440-41-7	Beryllium	0.37	JQ		MS
7440-43-9	Cadmium	0.16	JQ		MS
7440-47-3	Chromium	69.6			MS
7440-48-4	Cobalt	8.3	~~JL~~	~~NE~~ MW J	MS
7440-50-8	Copper	32.0	~~JL~~	~~NE~~ MW J	MS
7439-92-1	Lead	8.0	~~JH~~	~~N~~ MW J	MS
7439-96-5	Manganese	3020			MS
7440-02-0	Nickel	38.2	~~JL~~	~~NE~~ MW J	MS
7782-49-2	Selenium	5.0	U ~~JL~~	~~N~~ MW J	MS
7440-22-4	Silver	0.07	JQ	N	MS
7440-28-0	Thallium	0.26	JQ		MS
7440-62-2	Vanadium	78.2			MS
7440-66-6	Zinc	37.2	~~JL~~ U MW	NE MW	MS

Color Before: BRONW Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

BREMERTON-012511

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K50

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K22

Matrix (soil/water): WATER Lab Sample ID: 0805051-03

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	~~R 2.0~~	~~U~~	~~N~~ MW	MS
7440-39-3	Barium	0.10	JQ		MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	0.05	JQ		MS
7440-48-4	Cobalt	~~R 1.0~~	~~U~~	~~NE~~ MW	MS
7440-50-8	Copper	0.24	JQ	NE	MS
7439-92-1	Lead	1.0	U	N	MS
7439-96-5	Manganese	0.81	JQ		MS
7440-02-0	Nickel	0.10	JQ	NE	MS
7782-49-2	Selenium	5.0	~~U~~	~~N~~ MW UJ	MS
7440-22-4	Silver	1.0	~~U~~	~~N~~ MW UJ	MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	5.0	U		MS
7440-66-6	Zinc	0.90	JQ	NE MW	MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

USEPA - CLP

1A-IN

19

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K53

b Name: Bonner Analytical Testing Compa Contract: EPW06055

b Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K22

trix (soil/water): WATER Lab Sample ID: 0805051-06

vel (low/med): LOW Date Received: 05/17/2008

Solids: 0.0

ncentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.30	JQ	N	MS
7440-39-3	Barium	2370			MS
7440-41-7	Beryllium	6.4			MS
7440-43-9	Cadmium	1.8			MS
7440-47-3	Chromium	845			MS
7440-48-4	Cobalt	41.7			MS
7440-50-8	Copper	59.8			MS
7439-92-1	Lead	132			MS
7439-96-5	Manganese	12400			MS
7440-02-0	Nickel	106			MS
7782-49-2	Selenium	2.9	JQ	N	MS
7440-22-4	Silver	0.70	JQ	N	MS
7440-28-0	Thallium	0.94	JQ		MS
7440-62-2	Vanadium	717			MS
7440-66-6	Zinc	126			MS

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

BREMERTON-012513

USEPA - CLP

1A-IN

20

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K60

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K22

Matrix (soil/water): WATER Lab Sample ID: 0805051-07

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	~~0.31~~ 2.0	~~JQ~~ MW U	N	MS
7440-39-3	Barium	35.7			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	0.05	JQ		MS
7440-47-3	Chromium	2.4			MS
7440-48-4	Cobalt	1.4	~~JL~~	~~NE~~ MW J	MS
7440-50-8	Copper	1.9	JQ	NE	MS
7439-92-1	Lead	0.44	JQ	N	MS
7439-96-5	Manganese	98.1			MS
7440-02-0	Nickel	5.2	~~JL~~	~~NE~~ MW J	MS
7782-49-2	Selenium	5.0	~~UJL~~	~~N~~ MW UJ	MS
7440-22-4	Silver	1.0	~~UJL~~	~~N~~ MW UJ	MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	3.7	JQ		MS
7440-66-6	Zinc	4.5	~~JL~~ U	NE MW	MS

MW

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

BREMERTON-012514

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K52

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K22

Matrix (soil/water): WATER Lab Sample ID: 0805051-05

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.23	JQ	N	MS
7440-39-3	Barium	0.16	JQ		MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	0.08	JQ		MS
7440-48-4	Cobalt	~~1.0~~ R	~~U~~	~~NE~~ MW	MS
7440-50-8	Copper	0.16	JQ	NE	MS
7439-92-1	Lead	1.0	U	N	MS
7439-96-5	Manganese	0.23	JQ		MS
7440-02-0	Nickel	0.23	JQ	NE	MS
7782-49-2	Selenium	5.0	~~U~~ JL	~~N~~ MW UJ	MS
7440-22-4	Silver	1.0	~~U~~ JL	~~N~~ MW UJ	MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	5.0	U		MS
7440-66-6	Zinc	13.8	~~JL~~	~~NE~~ MW J	MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

BREMERTON-012515

USEPA - CLP

1A-IN

17

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K51

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K22

Matrix (soil/water): WATER Lab Sample ID: 0805051-04

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	~~R 2.0~~	~~U~~	~~N~~	MS
7440-39-3	Barium	0.24	J	Q	MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	0.05	J	Q	MS
7440-48-4	Cobalt	~~R 1.0~~	~~U~~	~~NE~~	MS
7440-50-8	Copper	~~R 2.0~~	~~U~~	~~NE~~	MS
7439-92-1	Lead	1.0	U	N	MS
7439-96-5	Manganese	0.44	J	Q	MS
7440-02-0	Nickel	0.08	J	Q NE	MS
7782-49-2	Selenium	5.0	U	~~N~~	MS
7440-22-4	Silver	1.0	U	~~N~~	MS
7440-28-0	Thallium	1.0	U		MS
7440-62-2	Vanadium	5.0	U		MS
7440-66-6	Zinc	1.7	J	Q NE	MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

BREMERTON-012516

USEPA - CLP

1A-IN

21

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K67

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K22

Matrix (soil/water): WATER Lab Sample ID: 0805051-08

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.16	JQ	N	MS
7440-39-3	Barium	3140			MS
7440-41-7	Beryllium	7.6			MS
7440-43-9	Cadmium	3.9			MS
7440-47-3	Chromium	1670			MS
7440-48-4	Cobalt	23.6	JL	NEMWJ	MS
7440-50-8	Copper	111	JL	NEMWJ	MS
7439-92-1	Lead	268	JL	NEMWJ	MS
7439-96-5	Manganese	25560		D	MS
7440-02-0	Nickel	125	JL	NEMWJ	MS
7782-49-2	Selenium	5.5	JL	NMWJ	MS
7440-22-4	Silver	1.4	JL	NMJ	MS
7440-28-0	Thallium	0.82	JQ		MS
7440-62-2	Vanadium	714			MS
7440-66-6	Zinc	153	JL	NEWJ	MS

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

BREMERTON-012517

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: June 23, 2008

TO: Renee Nordeen, START-3 Project Manager, E & E, Seattle, WA

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington

SUBJ: **Inorganic Data Summary Check,**
Bremerton Gasworks Properties, Bremerton, Washington

REF: TDD: 07-01-0008 PAN: 002233.0178.01BR

The data summary check of 20 soil samples collected from the Bremerton Gasworks Properties site located in Bremerton, Washington, has been completed. Analysis for Target Analyte List (TAL) metals (EPA CLP SOW ILM05.4) was performed by Bonner Analytical, Hattiesburg, Mississippi.

The samples were numbered:

MJ8K23	MJ8K24	MJ8K25	MJ8K26	MJ8K27
MJ8K28	MJ8K44	MJ8K45	MJ8K46	MJ8K47
MJ8K48	MJ8K54	MJ8K55	MJ8K56	MJ8K57
MJ8K61	MJ8K62	MJ8K63	MJ8K64	MJ8K65

A cursory assessment of the data was provided with no qualifiers added. The secondary reviewer applied "Q" bias qualifiers to positive results less than the Contract Required Quantitation Limit.

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue, Suite 900
Seattle, Washington 98101

June 16, 2008

Reply To
Attn. Of: **OEA-095**

MEMORANDUM

SUBJECT: Data Transmittal for Bremerton Gasworks TBA, Case# 37435, SDG: MJ8K23, Inorganic Analysis

FROM: Donald Matheny, Chemist
Environmental Services Unit, OEA

TO: Joanne LaBaw, Project Manager
Office of Environmental Cleanup (ECL-115)

CC: Renee Nordeen, Ecology & Environment

The following data are being transmitted for the above project. Twenty (20) soil samples were analyzed for total elements by Bonner Analytical, Hattiesburg, MS. Sample numbers for this delivery group are:

MJ8K23	MJ8K24	MJ8K25	MJ8K26	MJ8K27	MJ8K28	MJ8K44
MJ8K45	MJ8K46	MJ8K47	MJ8K48	MJ8K54	MJ8K55	MJ8K56
MJ8K57	MJ8K61	MJ8K62	MJ8K63	MJ8K64	MJ8K65	

A cursory assessment of the data indicates the following:

The matrix spike recovery was 23% for antimony. Detected antimony values should be estimates whereas non-detected values should be rejected.

The matrix spike recovery for lead was 130%. Detected lead values should be estimates with a high bias.

Serial Dilution percent differences ranged from 13-20% for aluminum, barium, iron, magnesium, manganese, nickel and zinc with an indication of low bias. Values for these elements should be estimates.

No data validation qualifiers were applied to the data.

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K23

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K23

Matrix (soil/water): SOIL Lab Sample ID: 0805047-01

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 91.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11200			P
7440-36-0	Antimony	~~6.6~~ R	U		P
7440-39-3	Barium	46.1			P
7440-41-7	Beryllium	0.23	JQ		P
7440-43-9	Cadmium	0.27	JQ		P
7440-70-2	Calcium	3200			P
7440-47-3	Chromium	20.4			P
7440-48-4	Cobalt	5.8			P
7440-50-8	Copper	11.1			P
7439-89-6	Iron	10900			P
7439-92-1	Lead	5.6			P
7439-95-4	Magnesium	3750			P
7439-96-5	Manganese	193			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	30.1			P
7440-09-7	Potassium	462	JQ		P
7782-49-2	Selenium	3.8	U		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	176	JQ		P
7440-28-0	Thallium	2.2	JQ		P
7440-62-2	Vanadium	26.5			P
7440-66-6	Zinc	23.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012520

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

17

EPA SAMPLE NO.

MJ8K24

ab Name: Bonner Analytical Testing Compa Contract: EPW06055

ab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K23

atrix (soil/water): SOIL Lab Sample ID: 0805047-02

evel (low/med): LOW Date Received: 05/17/2008

Solids: 93.5

oncentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11200			P
7440-36-0	Antimony	R ~~6.4~~	U		P
7440-39-3	Barium	45.7			P
7440-41-7	Beryllium	0.23	JQ		P
7440-43-9	Cadmium	0.31	JQ		P
7440-70-2	Calcium	3300			P
7440-47-3	Chromium	20.5			P
7440-48-4	Cobalt	6.6			P
7440-50-8	Copper	14.4			P
7439-89-6	Iron	13400			P
7439-92-1	Lead	1.3			P
7439-95-4	Magnesium	4600			P
7439-96-5	Manganese	274			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	30.5			P
7440-09-7	Potassium	465	JQ		P
7782-49-2	Selenium	3.7	U		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	211	JQ		P
7440-28-0	Thallium	2.2	JQ		P
7440-62-2	Vanadium	31.7			P
7440-66-6	Zinc	24.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012521

USEPA - CLP

1A-IN

18

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K25

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K23

Matrix (soil/water): SOIL Lab Sample ID: 0805047-03

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 94.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7360			P
7440-36-0	Antimony	~~6.3~~ R	U		P
7440-39-3	Barium	31.8			P
7440-41-7	Beryllium	0.16	J		P
7440-43-9	Cadmium	0.22	J		P
7440-70-2	Calcium	3040			P
7440-47-3	Chromium	18.9			P
7440-48-4	Cobalt	5.7			P
7440-50-8	Copper	9.8			P
7439-89-6	Iron	10900			P
7439-92-1	Lead	1.0	J	N	P
7439-95-4	Magnesium	4290			P
7439-96-5	Manganese	202			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	34.3			P
7440-09-7	Potassium	411	J		P
7782-49-2	Selenium	3.7	U		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	215	J		P
7440-28-0	Thallium	1.7	J		P
7440-62-2	Vanadium	23.7			P
7440-66-6	Zinc	21.5			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012522

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

19

EPA SAMPLE NO.

MJ8K26

ab Name: Bonner Analytical Testing Compa Contract: EPW06055

ab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K23

atrix (soil/water): SOIL Lab Sample ID: 0805047-04

evel (low/med): LOW Date Received: 05/17/2008

Solids: 95.4

oncentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6760			P
7440-36-0	Antimony	~~6.3~~	U		P
7440-39-3	Barium	30.1			P
7440-41-7	Beryllium	0.15	JQ		P
7440-43-9	Cadmium	0.22	JQ		P
7440-70-2	Calcium	3030			P
7440-47-3	Chromium	18.0			P
7440-48-4	Cobalt	5.5			P
7440-50-8	Copper	10.3			P
7439-89-6	Iron	10400			P
7439-92-1	Lead	0.72	JQ	N	P
7439-95-4	Magnesium	4440			P
7439-96-5	Manganese	198			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	34.5			P
7440-09-7	Potassium	393	JQ		P
7782-49-2	Selenium	3.7	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	232	JQ		P
7440-28-0	Thallium	1.5	JQ		P
7440-62-2	Vanadium	22.7			P
7440-66-6	Zinc	20.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012523

USEPA - CLP

1A-IN

20

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K27

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K23

Matrix (soil/water): SOIL Lab Sample ID: 0805047-05

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 84.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9680	J	J	P
7440-36-0	Antimony	~~R 7.1~~	~~U~~	~~N~~	P
7440-39-3	Barium	37.9	J	J	P
7440-41-7	Beryllium	0.21	JQ		P
7440-43-9	Cadmium	0.30	JQ		P
7440-70-2	Calcium	3210			P
7440-47-3	Chromium	20.3			P
7440-48-4	Cobalt	6.5			P
7440-50-8	Copper	10.7			P
7439-89-6	Iron	12800	J	J	P
7439-92-1	Lead	0.80	JQ	N	P
7439-95-4	Magnesium	4610	J	J	P
7439-96-5	Manganese	177	J	J	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	36.9	J	J	P
7440-09-7	Potassium	398	JQ		P
7782-49-2	Selenium	4.1	U		P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	149	JQ		P
7440-28-0	Thallium	2.4	JQ		P
7440-62-2	Vanadium	30.1			P
7440-66-6	Zinc	23.6	J	J	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012524

USEPA - CLP

1A-IN

21

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K28

b Name: Bonner Analytical Testing Compa Contract: EPW06055

b Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K23

trix (soil/water): SOIL Lab Sample ID: 0805047-06

vel (low/med): LOW Date Received: 05/17/2008

Solids: 91.8

ncentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11300			P
7440-36-0	Antimony	R 6.5	U		P
7440-39-3	Barium	37.8			P
7440-41-7	Beryllium	0.24	JQ		P
7440-43-9	Cadmium	0.48	JQ		P
7440-70-2	Calcium	5310			P
7440-47-3	Chromium	36.4			P
7440-48-4	Cobalt	10.1			P
7440-50-8	Copper	25.3			P
7439-89-6	Iron	18500			P
7439-92-1	Lead	1.3			P
7439-95-4	Magnesium	5920			P
7439-96-5	Manganese	401			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	30.6			P
7440-09-7	Potassium	376	JQ		P
7782-49-2	Selenium	3.8	U		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	198	JQ		P
7440-28-0	Thallium	2.6	JQ		P
7440-62-2	Vanadium	45.9			P
7440-66-6	Zinc	34.2			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012525

USEPA - CLP

1A-IN

22

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K44

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K23

Matrix (soil/water): SOIL Lab Sample ID: 0805047-07

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 88.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13400			P
7440-36-0	Antimony	R 6.8	U		P
7440-39-3	Barium	57.4			P
7440-41-7	Beryllium	0.28	J		P
7440-43-9	Cadmium	0.48	J		P
7440-70-2	Calcium	4070			P
7440-47-3	Chromium	26.6			P
7440-48-4	Cobalt	9.2			P
7440-50-8	Copper	16.9			P
7439-89-6	Iron	17800			P
7439-92-1	Lead	2.4			P
7439-95-4	Magnesium	4930			P
7439-96-5	Manganese	375			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	36.8			P
7440-09-7	Potassium	531	J		P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	254	J		P
7440-28-0	Thallium	3.0			P
7440-62-2	Vanadium	40.2			P
7440-66-6	Zinc	35.1			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012526

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K45

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K23

Matrix (soil/water): SOIL Lab Sample ID: 0805047-08

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 92.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8050			P
7440-36-0	Antimony	R ~~6.5~~	U		P
7440-39-3	Barium	34.7			P
7440-41-7	Beryllium	0.17	J	Q	P
7440-43-9	Cadmium	0.24	J	Q	P
7440-70-2	Calcium	3050			P
7440-47-3	Chromium	21.6			P
7440-48-4	Cobalt	5.5			P
7440-50-8	Copper	11.2			P
7439-89-6	Iron	11200			P
7439-92-1	Lead	0.55	J	Q	P
7439-95-4	Magnesium	3960			P
7439-96-5	Manganese	197			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	32.5			P
7440-09-7	Potassium	371	J	Q	P
7782-49-2	Selenium	3.8	U		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	182	J	Q	P
7440-28-0	Thallium	1.8	J	Q	P
7440-62-2	Vanadium	25.3			P
7440-66-6	Zinc	22.3			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012527

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K46

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K23

Matrix (soil/water): SOIL Lab Sample ID: 0805047-09

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 83.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16500			P
7440-36-0	Antimony	~~R 7.2~~	U		P
7440-39-3	Barium	83.1			P
7440-41-7	Beryllium	0.37	J	Q	P
7440-43-9	Cadmium	0.74			P
7440-70-2	Calcium	6730			P
7440-47-3	Chromium	42.6			P
7440-48-4	Cobalt	13.3			P
7440-50-8	Copper	33.4			P
7439-89-6	Iron	27100			P
7439-92-1	Lead	3.6			P
7439-95-4	Magnesium	8530			P
7439-96-5	Manganese	530			P
7439-97-6	Mercury	0.072	J	Q	CV
7440-02-0	Nickel	50.8			P
7440-09-7	Potassium	1110			P
7782-49-2	Selenium	4.2	U		P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	417	J	Q	P
7440-28-0	Thallium	4.3			P
7440-62-2	Vanadium	61.2			P
7440-66-6	Zinc	53.7			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012528

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

25

EPA SAMPLE NO.

MJ8K47

ab Name: Bonner Analytical Testing Compa Contract: EPW06055

ab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K23

atrix (soil/water): SOIL Lab Sample ID: 0805047-10

evel (low/med): LOW Date Received: 05/17/2008

Solids: 88.9

oncentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8950			P
7440-36-0	Antimony	~~6.7~~ R	U		P
7440-39-3	Barium	35.7			P
7440-41-7	Beryllium	0.18	JQ		P
7440-43-9	Cadmium	0.25	JQ		P
7440-70-2	Calcium	2740			P
7440-47-3	Chromium	19.2			P
7440-48-4	Cobalt	5.5	JQ		P
7440-50-8	Copper	11.7			P
7439-89-6	Iron	11700			P
7439-92-1	Lead	0.83	JQ	N	P
7439-95-4	Magnesium	4100			P
7439-96-5	Manganese	208			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	31.0			P
7440-09-7	Potassium	400	JQ		P
7782-49-2	Selenium	3.9	U		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	144	JQ		P
7440-28-0	Thallium	1.9	JQ		P
7440-62-2	Vanadium	24.9			P
7440-66-6	Zinc	23.1			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012529

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K48

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K23

Matrix (soil/water): SOIL Lab Sample ID: 0805047-11

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 79.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20300			P
7440-36-0	Antimony	~~R 4.6~~	U		P
7440-39-3	Barium	91.2			P
7440-41-7	Beryllium	0.44	J	Q	P
7440-43-9	Cadmium	0.87			P
7440-70-2	Calcium	6740			P
7440-47-3	Chromium	48.4			P
7440-48-4	Cobalt	19.0			P
7440-50-8	Copper	43.1			P
7439-89-6	Iron	31700			P
7439-92-1	Lead	4.5			P
7439-95-4	Magnesium	9430			P
7439-96-5	Manganese	597			P
7439-97-6	Mercury	0.063	J	Q	CV
7440-02-0	Nickel	66.3			P
7440-09-7	Potassium	1240			P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	303	J	Q	P
7440-28-0	Thallium	4.5			P
7440-62-2	Vanadium	69.3			P
7440-66-6	Zinc	68.2			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012530

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

27

EPA SAMPLE NO.

MJ8K54

ab Name: Bonner Analytical Testing Compa Contract: EPW06055

ab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K23

atrix (soil/water): SOIL Lab Sample ID: 0805047-12

evel (low/med): LOW Date Received: 05/17/2008

Solids: 85.9

oncentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16500			P
7440-36-0	Antimony	~~7.0~~ R	~~U~~	~~N~~	P
7440-39-3	Barium	70.4			P
7440-41-7	Beryllium	0.32	J	Q	P
7440-43-9	Cadmium	0.51	J	Q	P
7440-70-2	Calcium	3490			P
7440-47-3	Chromium	33.0			P
7440-48-4	Cobalt	9.2			P
7440-50-8	Copper	19.7			P
7439-89-6	Iron	18400			P
7439-92-1	Lead	2.4			P
7439-95-4	Magnesium	5120			P
7439-96-5	Manganese	289			P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	40.4			P
7440-09-7	Potassium	505	J	Q	P
7782-49-2	Selenium	4.1	U		P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	175	J	Q	P
7440-28-0	Thallium	3.4			P
7440-62-2	Vanadium	44.7			P
7440-66-6	Zinc	34.3			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012531

USEPA - CLP

1A-IN

28

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K55

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K23

Matrix (soil/water): SOIL Lab Sample ID: 0805047-13

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 89.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10700	J		P
7440-36-0	Antimony	~~6.7~~ R	~~U~~		P
7440-39-3	Barium	44.6	J		P
7440-41-7	Beryllium	0.23	J		P
7440-43-9	Cadmium	0.36	J		P
7440-70-2	Calcium	3740			P
7440-47-3	Chromium	26.0			P
7440-48-4	Cobalt	7.8			P
7440-50-8	Copper	14.2			P
7439-89-6	Iron	15100	J		P
7439-92-1	Lead	1.2	J		P
7439-95-4	Magnesium	4580	J		P
7439-96-5	Manganese	276	J		P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	34.1	J		P
7440-09-7	Potassium	431	J		P
7782-49-2	Selenium	3.9	U		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	177	J		P
7440-28-0	Thallium	2.8			P
7440-62-2	Vanadium	35.4			P
7440-66-6	Zinc	29.0	J		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012532

USEPA - CLP

1A-IN

29

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K56

ab Name: Bonner Analytical Testing Compa Contract: EPW06055

ab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K23

atrix (soil/water): SOIL Lab Sample ID: 0805047-14

evel (low/med): LOW Date Received: 05/17/2008

Solids: 84.9

oncentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8370			P
7440-36-0	Antimony	~~7.1~~ R	U		P
7440-39-3	Barium	43.4			P
7440-41-7	Beryllium	0.20	J	Q	P
7440-43-9	Cadmium	0.30	J	Q	P
7440-70-2	Calcium	3270			P
7440-47-3	Chromium	29.1			P
7440-48-4	Cobalt	9.1			P
7440-50-8	Copper	15.0			P
7439-89-6	Iron	13800			P
7439-92-1	Lead	1.2	U		P
7439-95-4	Magnesium	4430			P
7439-96-5	Manganese	341			P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	42.5			P
7440-09-7	Potassium	407	J	Q	P
7782-49-2	Selenium	4.1	U		P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	211	J	Q	P
7440-28-0	Thallium	2.4	J	Q	P
7440-62-2	Vanadium	31.5			P
7440-66-6	Zinc	26.2			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012533

USEPA - CLP

1A-IN

30

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K57

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K23

Matrix (soil/water): SOIL Lab Sample ID: 0805047-15

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 77.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20500			P
7440-36-0	Antimony	~~7.7~~ R	U		P
7440-39-3	Barium	88.6			P
7440-41-7	Beryllium	0.45	J	Q	P
7440-43-9	Cadmium	0.86			P
7440-70-2	Calcium	6940			P
7440-47-3	Chromium	50.9			P
7440-48-4	Cobalt	15.7			P
7440-50-8	Copper	41.6			P
7439-89-6	Iron	29600			P
7439-92-1	Lead	4.7			P
7439-95-4	Magnesium	9510			P
7439-96-5	Manganese	421			P
7439-97-6	Mercury	0.056	J	Q	CV
7440-02-0	Nickel	58.2			P
7440-09-7	Potassium	1280			P
7782-49-2	Selenium	4.5	U		P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	367	J	Q	P
7440-28-0	Thallium	4.5			P
7440-62-2	Vanadium	69.9			P
7440-66-6	Zinc	69.2			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012534

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

31

EPA SAMPLE NO.

MJ8K61

b Name: Bonner Analytical Testing Compa Contract: EPW06055

b Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K23

trix (soil/water): SOIL Lab Sample ID: 0805047-16

vel (low/med): LOW Date Received: 05/17/2008

Solids: 79.6

ncentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	24100			P
7440-36-0	Antimony	R ~~7.5~~	U		P
7440-39-3	Barium	120			P
7440-41-7	Beryllium	0.44	JQ		P
7440-43-9	Cadmium	0.74			P
7440-70-2	Calcium	3180			P
7440-47-3	Chromium	43.1			P
7440-48-4	Cobalt	11.1			P
7440-50-8	Copper	26.3			P
7439-89-6	Iron	24800			P
7439-92-1	Lead	4.4			P
7439-95-4	Magnesium	5720			P
7439-96-5	Manganese	307			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	41.6			P
7440-09-7	Potassium	404	JQ		P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	167	JQ		P
7440-28-0	Thallium	4.1			P
7440-62-2	Vanadium	62.6			P
7440-66-6	Zinc	55.9			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012535

USEPA - CLP

1A-IN

32

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K62

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K23

Matrix (soil/water): SOIL Lab Sample ID: 0805047-17

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 76.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20600			P
7440-36-0	Antimony	~~7.8~~ R	U		P
7440-39-3	Barium	103			P
7440-41-7	Beryllium	0.48	J	Q	P
7440-43-9	Cadmium	0.94			P
7440-70-2	Calcium	6400			P
7440-47-3	Chromium	51.8			P
7440-48-4	Cobalt	17.3			P
7440-50-8	Copper	42.8			P
7439-89-6	Iron	34300			P
7439-92-1	Lead	4.4			P
7439-95-4	Magnesium	8930			P
7439-96-5	Manganese	627			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	57.8			P
7440-09-7	Potassium	1090			P
7782-49-2	Selenium	4.6	U		P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	306	J	Q	P
7440-28-0	Thallium	5.0			P
7440-62-2	Vanadium	85.3			P
7440-66-6	Zinc	66.4			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012536

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

33

EPA SAMPLE NO.

MJ8K63

ab Name: Bonner Analytical Testing Compa Contract: EPW06055

ab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K23

atrix (soil/water): SOIL Lab Sample ID: 0805047-18

evel (low/med): LOW Date Received: 05/17/2008

Solids: 77.9

oncentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20100			P
7440-36-0	Antimony	R 7.7	U		P
7440-39-3	Barium	100			P
7440-41-7	Beryllium	0.44	J	Q	P
7440-43-9	Cadmium	0.94			P
7440-70-2	Calcium	6310			P
7440-47-3	Chromium	48.7			P
7440-48-4	Cobalt	15.7			P
7440-50-8	Copper	40.9			P
7439-89-6	Iron	32800			P
7439-92-1	Lead	4.3			P
7439-95-4	Magnesium	8710			P
7439-96-5	Manganese	557			P
7439-97-6	Mercury	0.066	J	Q	CV
7440-02-0	Nickel	56.7			P
7440-09-7	Potassium	1080			P
7782-49-2	Selenium	4.5	U		P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	315	J	Q	P
7440-28-0	Thallium	4.7			P
7440-62-2	Vanadium	75.1			P
7440-66-6	Zinc	63.9			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012537

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K64

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K23

Matrix (soil/water): SOIL Lab Sample ID: 0805047-19

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 78.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20800			P
7440-36-0	Antimony	~~7.7~~ R	U		P
7440-39-3	Barium	95.6			P
7440-41-7	Beryllium	0.47	JQ		P
7440-43-9	Cadmium	0.96			P
7440-70-2	Calcium	7290			P
7440-47-3	Chromium	60.8			P
7440-48-4	Cobalt	16.9			P
7440-50-8	Copper	46.4			P
7439-89-6	Iron	32400			P
7439-92-1	Lead	4.8			P
7439-95-4	Magnesium	11400			P
7439-96-5	Manganese	449			P
7439-97-6	Mercury	0.056	JQ		CV
7440-02-0	Nickel	56.0			P
7440-09-7	Potassium	1350			P
7782-49-2	Selenium	4.5	U		P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	487	JQ		P
7440-28-0	Thallium	5.0			P
7440-62-2	Vanadium	86.0			P
7440-66-6	Zinc	72.3			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012538

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K65

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K23

Matrix (soil/water): SOIL Lab Sample ID: 0805047-20

Level (low/med): LOW Date Received: 05/17/2008

% Solids: 86.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7280			P
7440-36-0	Antimony	~~7.0~~	~~U~~	~~N~~	P
7440-39-3	Barium	34.4			P
7440-41-7	Beryllium	0.16	J		P
7440-43-9	Cadmium	0.20	J		P
7440-70-2	Calcium	3180			P
7440-47-3	Chromium	20.1			P
7440-48-4	Cobalt	5.6	J		P
7440-50-8	Copper	11.6			P
7439-89-6	Iron	11700			P
7439-92-1	Lead	0.66	J	N	P
7439-95-4	Magnesium	5050			P
7439-96-5	Manganese	192			P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	33.5			P
7440-09-7	Potassium	370	J		P
7782-49-2	Selenium	4.1	U		P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	176	J		P
7440-28-0	Thallium	2.3	J		P
7440-62-2	Vanadium	24.0			P
7440-66-6	Zinc	34.7			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012539

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: June 23, 2008

TO: Renee Nordeen, START-3 Project Manager, E & E, Seattle, WA

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Inorganic Data Summary Check,**
Bremerton Gasworks Properties, Bremerton, Washington

REF: TDD: 07-01-0008 PAN: 002233.0178.01BR

The data summary check of 10 soil samples collected from the Bremerton Gasworks Properties site located in Bremerton, Washington, has been completed. Analysis for Target Analyte List (TAL) metals (EPA CLP SOW ILM05.4) was performed by Bonner Analytical, Hattiesburg, Mississippi.

The samples were numbered:

MJ8K30	MJ8K31	MJ8K32	MJ8K33	MJ8K34
MJ8K35	MJ8K37	MJ8K38	MJ8K40	MJ8K86

A cursory assessment of the data was provided with no qualifiers added. The secondary reviewer applied "Q" bias qualifiers to positive results less than the Contract Required Quantitation Limit.

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue, Suite 900
Seattle, Washington 98101

June 17, 2008

Reply To
Attn. Of: **OEA-095**

MEMORANDUM

SUBJECT: Data Transmittal for Bremerton Gasworks TBA, Case# 37435, SDG: MJ8K30, Inorganic Analysis

FROM: Donald Matheny, Chemist
Environmental Services Unit, OEA

TO: Joanne LaBaw, Project Manager
Office of Environmental Cleanup (ECL-115)

CC: Renee Nordeen, Ecology & Environment

The following data are being transmitted for the above project. Ten (10) soil samples were analyzed for total elements by Bonner Analytical, Hattiesburg, MS. Sample numbers for this delivery group are:

MJ8K30	MJ8K31	MJ8K32	MJ8K33	MJ8K34
MJ8K35	MJ8K37	MJ8K38	MJ8K40	MJ8K86

A cursory assessment of the data indicates the following:

The matrix spike recovery for antimony was 25%. Detected antimony values should be estimates with a low bias whereas non-detected values should be rejected.

Manganese data were "*" qualified based on the sample duplicate, however, the duplicate result (21%) met the 35% RPD evaluation criteria. Manganese data are therefore compliant.

The serial dilution percent difference for zinc was 15% with an indication of low bias. Zinc values should be estimates.

USEPA - CLP

1A-IN

10

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K30

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K30

Matrix (soil/water): SOIL Lab Sample ID: 0805064-01

Level (low/med): LOW Date Received: 05/21/2008

% Solids: 90.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14600			P
7440-36-0	Antimony	0.77	J	N	P
7440-39-3	Barium	64.5			P
7440-41-7	Beryllium	0.37	J		P
7440-43-9	Cadmium	0.55	U		P
7440-70-2	Calcium	1620			P
7440-47-3	Chromium	22.4			P
7440-48-4	Cobalt	6.6			P
7440-50-8	Copper	13.0			P
7439-89-6	Iron	13500			P
7439-92-1	Lead	3.7			P
7439-95-4	Magnesium	4210			P
7439-96-5	Manganese	225		*	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	35.5			P
7440-09-7	Potassium	355	J		P
7782-49-2	Selenium	3.9	U		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	145	J		P
7440-28-0	Thallium	2.8	U		P
7440-62-2	Vanadium	31.3			P
7440-66-6	Zinc	25.3	J	*	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012542

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

11

EPA SAMPLE NO.

MJ8K31

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K30

Matrix (soil/water): SOIL Lab Sample ID: 0805064-02

Level (low/med): LOW Date Received: 05/21/2008

Solids: 90.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11500			P
7440-36-0	Antimony	~~6.6~~ R	~~U~~	~~N~~	P
7440-39-3	Barium	43.1			P
7440-41-7	Beryllium	0.30	JQ		P
7440-43-9	Cadmium	0.55	U		P
7440-70-2	Calcium	1840			P
7440-47-3	Chromium	19.8			P
7440-48-4	Cobalt	5.7			P
7440-50-8	Copper	10.4			P
7439-89-6	Iron	11200			P
7439-92-1	Lead	2.5			P
7439-95-4	Magnesium	3810			P
7439-96-5	Manganese	201			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	31.8			P
7440-09-7	Potassium	372	JQ		P
7782-49-2	Selenium	3.9	U		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	120	JQ		P
7440-28-0	Thallium	2.8	U		P
7440-62-2	Vanadium	23.3			P
7440-66-6	Zinc	21.0	~~J~~	~~J~~	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012543

USEPA - CLP

1A-IN

12

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K32

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K30

Matrix (soil/water): SOIL Lab Sample ID: 0805064-03

Level (low/med): LOW Date Received: 05/21/2008

% Solids: 94.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8700			P
7440-36-0	Antimony	~~6.4~~ R	~~U~~	~~NR~~	P
7440-39-3	Barium	35.4			P
7440-41-7	Beryllium	0.27	JQ		P
7440-43-9	Cadmium	0.53	U		P
7440-70-2	Calcium	2250			P
7440-47-3	Chromium	17.9			P
7440-48-4	Cobalt	5.4			P
7440-50-8	Copper	9.1			P
7439-89-6	Iron	10700			P
7439-92-1	Lead	2.1			P
7439-95-4	Magnesium	4140			P
7439-96-5	Manganese	194			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	32.7			P
7440-09-7	Potassium	366	JQ		P
7782-49-2	Selenium	3.7	U		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	133	JQ		P
7440-28-0	Thallium	2.7	U		P
7440-62-2	Vanadium	24.8			P
7440-66-6	Zinc	19.6	~~U~~	~~NR~~	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012544

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

13

EPA SAMPLE NO.

MJ8K33

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K30

Matrix (soil/water): SOIL Lab Sample ID: 0805064-04

Level (low/med): LOW Date Received: 05/21/2008

% Solids: 88.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8120			P
7440-36-0	Antimony	~~6.7~~ R	~~U~~	~~N~~ NW	P
7440-39-3	Barium	36.9			P
7440-41-7	Beryllium	0.23	JQ		P
7440-43-9	Cadmium	0.56	U		P
7440-70-2	Calcium	2070			P
7440-47-3	Chromium	18.3			P
7440-48-4	Cobalt	5.5	JQ		P
7440-50-8	Copper	9.1			P
7439-89-6	Iron	9940			P
7439-92-1	Lead	2.0			P
7439-95-4	Magnesium	3640			P
7439-96-5	Manganese	189		*	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	32.7			P
7440-09-7	Potassium	383	JQ		P
7782-49-2	Selenium	3.9	U		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	126	JQ		P
7440-28-0	Thallium	2.8	U		P
7440-62-2	Vanadium	20.7			P
7440-66-6	Zinc	19.9	~~JL~~	~~FMV~~	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012545

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

14

EPA SAMPLE NO.

MJ8K34

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K30

Matrix (soil/water): SOIL Lab Sample ID: 0805064-05

Level (low/med): LOW Date Received: 05/21/2008

% Solids: 93.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7850			P
7440-36-0	Antimony	~~6.4~~	~~U~~	~~N~~	P
7440-39-3	Barium	35.1			P
7440-41-7	Beryllium	0.24	J	Q	P
7440-43-9	Cadmium	0.54	U		P
7440-70-2	Calcium	2130			P
7440-47-3	Chromium	16.8			P
7440-48-4	Cobalt	5.5			P
7440-50-8	Copper	8.3			P
7439-89-6	Iron	10100			P
7439-92-1	Lead	2.1			P
7439-95-4	Magnesium	3770			P
7439-96-5	Manganese	193		*	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	32.8			P
7440-09-7	Potassium	387	J	Q	P
7782-49-2	Selenium	3.7	U		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	145	J	Q	P
7440-28-0	Thallium	2.7	U		P
7440-62-2	Vanadium	22.3			P
7440-66-6	Zinc	19.1	~~J~~	~~J~~	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

15

EPA SAMPLE NO.

MJ8K35

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K30

Matrix (soil/water): SOIL Lab Sample ID: 0805064-06

Level (low/med): LOW Date Received: 05/21/2008

% Solids: 93.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7240			P
7440-36-0	Antimony	~~6.4~~ R	U	~~N~~ FMV	P
7440-39-3	Barium	33.5			P
7440-41-7	Beryllium	0.24	J	Q	P
7440-43-9	Cadmium	0.53	U		P
7440-70-2	Calcium	2040			P
7440-47-3	Chromium	16.0			P
7440-48-4	Cobalt	5.0	J	Q	P
7440-50-8	Copper	8.0			P
7439-89-6	Iron	9570			P
7439-92-1	Lead	1.8			P
7439-95-4	Magnesium	3520			P
7439-96-5	Manganese	173			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	31.4			P
7440-09-7	Potassium	361	J	Q	P
7782-49-2	Selenium	3.7	U		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	122	J	Q	P
7440-28-0	Thallium	2.7	U		P
7440-62-2	Vanadium	20.8			P
7440-66-6	Zinc	18.9	~~J~~	~~FMV~~ J	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012547

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K37

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K30

Matrix (soil/water): SOIL Lab Sample ID: 0805064-07

Level (low/med): LOW Date Received: 05/21/2008

% Solids: 78.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19300			P
7440-36-0	Antimony	~~9.6~~ K	~~U~~	~~N~~ MW	P
7440-39-3	Barium	113			P
7440-41-7	Beryllium	0.53	J Q		P
7440-43-9	Cadmium	0.63	U		P
7440-70-2	Calcium	5200			P
7440-47-3	Chromium	49.3			P
7440-48-4	Cobalt	14.8			P
7440-50-8	Copper	36.3			P
7439-89-6	Iron	28500			P
7439-92-1	Lead	6.3			P
7439-95-4	Magnesium	8650			P
7439-96-5	Manganese	526		*	P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	65.7			P
7440-09-7	Potassium	844			P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	268	J Q		P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	61.7			P
7440-66-6	Zinc	56.3	~~J~~	~~J~~ MW J	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

USEPA - CLP

1A-IN

17

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K38

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K30

Matrix (soil/water): SOIL Lab Sample ID: 0805064-08

Level (low/med): LOW Date Received: 05/21/2008

% Solids: 92.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7670			P
7440-36-0	Antimony	~~6.5~~	~~U~~	~~N~~	P
7440-39-3	Barium	43.6			P
7440-41-7	Beryllium	0.25	JQ		P
7440-43-9	Cadmium	0.54	U		P
7440-70-2	Calcium	2960			P
7440-47-3	Chromium	18.9			P
7440-48-4	Cobalt	5.7			P
7440-50-8	Copper	10.3			P
7439-89-6	Iron	11300			P
7439-92-1	Lead	4.3			P
7439-95-4	Magnesium	3410			P
7439-96-5	Manganese	244			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	29.7			P
7440-09-7	Potassium	294	JQ		P
7782-49-2	Selenium	3.8	U		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	202	JQ		P
7440-28-0	Thallium	1.1	JQ		P
7440-62-2	Vanadium	25.1			P
7440-66-6	Zinc	21.8	~~JL~~	~~J~~	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

USEPA - CLP

1A-IN

18

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K40

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K30

Matrix (soil/water): SOIL Lab Sample ID: 0805064-09

Level (low/med): LOW Date Received: 05/21/2008

% Solids: 84.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12200			P
7440-36-0	Antimony	~~7.1~~	U	~~N~~	P
7440-39-3	Barium	51.5			P
7440-41-7	Beryllium	0.36	J	Q	P
7440-43-9	Cadmium	0.59	U		P
7440-70-2	Calcium	2770			P
7440-47-3	Chromium	22.5			P
7440-48-4	Cobalt	7.2			P
7440-50-8	Copper	13.8			P
7439-89-6	Iron	15000			P
7439-92-1	Lead	3.3			P
7439-95-4	Magnesium	4590			P
7439-96-5	Manganese	261			P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	35.0			P
7440-09-7	Potassium	542	J	Q	P
7782-49-2	Selenium	4.1	U		P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	144	J	Q	P
7440-28-0	Thallium	1.2	J	Q	P
7440-62-2	Vanadium	34.2			P
7440-66-6	Zinc	27.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012550

USEPA - CLP

1A-IN

19

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K86

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K30

Matrix (soil/water): SOIL Lab Sample ID: 0805064-10

Level (low/med): LOW Date Received: 05/21/2008

% Solids: 88.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8610			P
7440-36-0	Antimony	~~6.8~~ R	~~U~~	~~N~~	P
7440-39-3	Barium	38.0			P
7440-41-7	Beryllium	0.26	J	Q	P
7440-43-9	Cadmium	0.57	U		P
7440-70-2	Calcium	2410			P
7440-47-3	Chromium	18.4			P
7440-48-4	Cobalt	5.8			P
7440-50-8	Copper	10.3			P
7439-89-6	Iron	10900			P
7439-92-1	Lead	2.8			P
7439-95-4	Magnesium	3720			P
7439-96-5	Manganese	220			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	31.3			P
7440-09-7	Potassium	372	J	Q	P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	146	J	Q	P
7440-28-0	Thallium	1.2	J	Q	P
7440-62-2	Vanadium	25.3			P
7440-66-6	Zinc	22.2			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts: YES

Comments: ROCKS; PLANT MATTER

BREMERTON-012551

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: June 23, 2008

TO: Renee Nordeen, START-3 Project Manager, E & E, Seattle, WA

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Inorganic Data Summary Check,**
Bremerton Gasworks Properties, Bremerton, Washington

REF: TDD: 07-01-0008 PAN: 002233.0178.01BR

The data summary check of 2 water samples collected from the Bremerton Gasworks Properties site located in Bremerton, Washington, has been completed. Analysis for total arsenic (EPA CLP SOW ILM05.4) was performed by Bonner Analytical, Hattiesburg, Mississippi.

The samples were numbered:

MJ8K21 MJ8K36

A cursory assessment of the data was provided.

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue, Suite 900
Seattle, Washington 98101

June 17, 2008

Reply To
Attn. Of: **OEA-095**

MEMORANDUM

SUBJECT: Data Transmittal for Bremerton Gasworks TBA, Case# 37435, SDG: MJ8K36, Inorganic Analysis

FROM: Donald Matheny, Chemist DM
Environmental Services Unit, OEA

TO: Joanne LaBaw, Project Manager
Office of Environmental Cleanup (ECL-115)

CC: Renee Nordeen, Ecology & Environment

The following data are being transmitted for the above project. Two (2) water samples were analyzed for total arsenic by Bonner Analytical, Hattiesburg, MS. Sample numbers for this delivery group are:

MJ8K21 MJ8K36

A cursory assessment of the data indicates the following:

The matrix spike and duplicate sample analyses were compliant. The arsenic concentration in the serial dilution sample was too low to evaluate (<50 x IDL).

USEPA - CLP

1A-IN

11

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K21

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1560.0 SDG NO.: MJ8K36

Matrix (soil/water): WATER Lab Sample ID: 0805066-01

Level (low/med): LOW Date Received: 05/21/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.2			MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

BREMERTON-012554

USEPA - CLP

1A-IN

12

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K36

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1560.0 SDG NO.: MJ8K36

Matrix (soil/water): WATER Lab Sample ID: 0805066-02

Level (low/med): LOW Date Received: 05/21/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.39			MS

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: BROWN Clarity After: CLOUDY Artifacts:

Comments:

BREMERTON-012555

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: June 23, 2008

TO: Renee Nordeen, START-3 Project Manager, E & E, Seattle, WA

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Inorganic Data Summary Check,**
Bremerton Gasworks Properties, Bremerton, Washington

REF: TDD: 07-01-0008 PAN: 002233.0178.01BR

The data summary check of 8 water samples collected from the Bremerton Gasworks Properties site located in Bremerton, Washington, has been completed. Analysis for arsenic (EPA CLP SOW ILM05.4) was performed by Bonner Analytical, Hattiesburg, Mississippi.

The samples were numbered:

MJ8K22	MJ8K43	MJ8K50	MJ8K51	MJ8K52
MJ8K53	MJ8K60	MJ8K67		

A cursory assessment of the data was provided with no qualifiers added.

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue, Suite 900
Seattle, Washington 98101

June 17, 2008

Reply To
Attn. Of: **OEA-095**

MEMORANDUM

SUBJECT: Data Transmittal for Bremerton Gasworks TBA, Case# 37435, SDG: MJ8K43, Inorganic Analysis

FROM: Donald Matheny, Chemist DM
Environmental Services Unit, OEA

TO: Joanne LaBaw, Project Manager
Office of Environmental Cleanup (ECL-115)

CC: Renee Nordeen, Ecology & Environment

The following data are being transmitted for the above project. Eight (8) water samples were analyzed for total elements by Bonner Analytical, Hattiesburg, MS. Sample numbers for this delivery group are:

MJ8K22	MJ8K43	MJ8K50	MJ8K51
MJ8K52	MJ8K53	MJ8K60	MJ8K67

A cursory assessment of the data indicates the following:

The matrix spike recovery was 7%. Detected arsenic values should be estimates with a low bias whereas non-detected values should be rejected.

No data validation qualifiers were applied to the data.

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

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EPA SAMPLE NO.

MJ8K22

b Name: Bonner Analytical Testing Compa Contract: EPW06055

b Code: BONNER Case No.: 37435 NRAS No.: 1560.0 SDG NO.: MJ8K43

trix (soil/water): WATER Lab Sample ID: 0805052-01

vel (low/med): LOW Date Received: 5/17/2008

Solids: 0.0

ncentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.7		N	MS

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

BREMERTON-012558

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K43

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1560.0 SDG NO.: MJ8K43

Matrix (soil/water): WATER Lab Sample ID: 0805052-02

Level (low/med): LOW Date Received: 5/17/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	4.1		N	MS

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

BREMERTON-012559

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K50

ab Name: Bonner Analytical Testing Compa Contract: EPW06055

ab Code: BONNER Case No.: 37435 NRAS No.: 1560.0 SDG NO.: MJ8K43

atrix (soil/water): WATER Lab Sample ID: 0805052-03

evel (low/med): LOW Date Received: 5/17/2008

Solids: 0.0

oncentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.04		N	MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

BREMERTON-012560

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K51

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1560.0 SDG NO.: MJ8K43

Matrix (soil/water): WATER Lab Sample ID: 0805052-04

Level (low/med): LOW Date Received: 5/17/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.04		N	MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

BREMERTON-012561

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K52

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1560.0 SDG NO.: MJ8K43

Matrix (soil/water): WATER Lab Sample ID: 0805052-05

Level (low/med): LOW Date Received: 5/17/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.08		N	MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

BREMERTON-012562

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K53

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1560.0 SDG NO.: MJ8K43

Matrix (soil/water): WATER Lab Sample ID: 0805052-06

Level (low/med): LOW Date Received: 5/17/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.1		N	MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

BREMERTON-012563

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K60

ıb Name: Bonner Analytical Testing Compa Contract: EPW06055

ıb Code: BONNER Case No.: 37435 NRAS No.: 1560.0 SDG NO.: MJ8K43

ıtrix (soil/water): WATER Lab Sample ID: 0805052-07

ıvel (low/med): LOW Date Received: 5/17/2008

Solids: 0.0

ıncentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.63		N	MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

BREMERTON-012564

USEPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K67

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: 1560.0 SDG NO.: MJ8K43

Matrix (soil/water): WATER Lab Sample ID: 0805052-08

Level (low/med): LOW Date Received: 5/17/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.90		N	MS

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

BREMERTON-012565

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: June 23, 2008

TO: Renee Nordeen, START-3 Project Manager, E & E, Seattle, WA

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington

SUBJ: **Inorganic Data Summary Check,**
Bremerton Gasworks Properties, Bremerton, Washington

REF: TDD: 07-01-0008 PAN: 002233.0178.01BR

The data summary check of 2 water samples collected from the Bremerton Gasworks Properties site located in Bremerton, Washington, has been completed. Analysis for Target Analyte List (TAL) metals (EPA CLP SOW ILM05.4) was performed by Bonner Analytical, Hattiesburg, Mississippi.

The samples were numbered:

MJ8K21 MJ8K36

A cursory assessment of the data was provided with no qualifiers added. The secondary reviewer applied "Q" bias qualifiers to positive results less than the Contract Required Quantitation Limit.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue, Suite 900
Seattle, Washington 98101

June 17, 2008

Reply To
Attn. Of: **OEA-095**

MEMORANDUM

SUBJECT: Data Transmittal for Bremerton Gasworks TBA, Case# 37435, SDG: MJ8K21, Inorganic Analysis

FROM: Donald Matheny, Chemist
Environmental Services Unit, OEA

TO: Joanne LaBaw, Project Manager
Office of Environmental Cleanup (ECL-115)

CC: Renee Nordeen, Ecology & Environment

The following data are being transmitted for the above project. Two (2) water samples were analyzed for total elements by Bonner Analytical, Hattiesburg, MS. Sample numbers for this delivery group are:

MJ8K21 MJ8K36

A cursory assessment of the data indicates the following:

The matrix spike and duplicate sample analyses were compliant.

Serial dilution percent differences ranged from 18-61% for cobalt, lead, nickel and zinc with an indication of low bias. Values for these elements should be estimates.

USEPA - CLP

1A-IN

09

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K21

ab Name: Bonner Analytical Testing Compa Contract: EPW06055

ab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K21

atrix (soil/water): WATER Lab Sample ID: 0805065-01

evel (low/med): LOW Date Received: 05/21/2008

Solids: 0.0

oncentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.9	J		MS
7440-39-3	Barium	21.5			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	0.14	J		MS
7440-47-3	Chromium	2.8			MS
7440-48-4	Cobalt	1.9		E	MS
7440-50-8	Copper	4.9			MS
7439-92-1	Lead	2.5		E	MS
7439-96-5	Manganese	454			MS
7440-02-0	Nickel	5.8		E	MS
7782-49-2	Selenium	0.88	J		MS
7440-22-4	Silver	0.04	J		MS
7440-28-0	Thallium	0.26	J		MS
7440-62-2	Vanadium	4.7	J		MS
7440-66-6	Zinc	62.4		E	MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

BREMERTON-012568

USEPA - CLP

1A-IN

10

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ8K36

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055

Lab Code: BONNER Case No.: 37435 NRAS No.: SDG NO.: MJ8K21

Matrix (soil/water): WATER Lab Sample ID: 0805065-02

Level (low/med): LOW Date Received: 05/21/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.0	U		MS
7440-39-3	Barium	5840			MS
7440-41-7	Beryllium	13.6			MS
7440-43-9	Cadmium	2.0			MS
7440-47-3	Chromium	1090			MS
7440-48-4	Cobalt	89.5		E	MS
7440-50-8	Copper	293			MS
7439-92-1	Lead	179		E	MS
7439-96-5	Manganese	8840		D	MS
7440-02-0	Nickel	458		E	MS
7782-49-2	Selenium	2.9	J		MS
7440-22-4	Silver	0.72	J		MS
7440-28-0	Thallium	1.7			MS
7440-62-2	Vanadium	926			MS
7440-66-6	Zinc	417		E	MS

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: August 22, 2008

TO: Renee Nordeen, START-3 Project Manager, E & E, Seattle, WA

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Summary Check,**
Bremerton Gasworks Properties, Bremerton, Washington

REF: TDD: 07-01-0008 PAN: 002233.0178.01BR

The data summary check of 3 soil samples collected from the Bremerton Gasworks Properties site located in Bremerton, Washington, has been completed. Analysis for organics (EPA CLP SOW SOM01.2) was performed by KAP Technologies, Inc., The Woodlands, Texas.

The samples were numbered:

J8K37 J8K38 J8K40

No discrepancies were noted.

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, Washington 98101

August 19, 2008

Reply to
Attn of: OEA-095

MEMORANDUM

Subject: Data Review Report for the Volatile, Semi-Volatile Organic (SVOC / SIM) Analyses of Samples collected from the Bremerton Gasworks Brownfield Site
Case: 37435 SDGs: J8K37

From: Raymond Wu, Chemist
Office of Environmental Assessment 8/19/08

To: Joanne LaBaw, Site Assessment Manager
Office of Environmental Cleanup

CC: Renee Nordeen, Project Manager
Ecology and Environment, Inc.

The quality assurance (QA) review of the analytical data generated from the analysis of 3 soil samples collected from the above referenced site has been completed. Samples were analyzed for Volatile, Semi-Volatile (SVOC/SIM) in accordance with the USEPA Contract Laboratory Program (CLP) Statement of Work (SOW) for Organic Analyses (SOM01.2) by KAP Technologies, Inc. in The Woodlands, Texas. The following samples were evaluated in this validation report:

SDG: J8K37

J8K37 J8K38 J8K40

DATA QUALIFICATIONS

The following comments refer to the laboratory performance in meeting the Quality Control specifications outlined in the Sampling and Quality Assurance Plan July 1, 2008, prepared by Ecology and Environment, USEPA CLP SOW for Organic Analysis (SOM01.2, 05/2008), and the applicable criteria set forth in the USEPA Contract Laboratory Program's National Functional Guidelines for Organic Data Review (07/2007). The data reviews conducted on these analyses were based on the QC Forms and Sample Data Summary Forms submitted by the laboratories. Review of the raw data of the analyses was not conducted. The conclusions presented herein are based on the information provided for the review.

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Please note:

1) The original Chain of custody forms had some inconsistencies (eg. sampling date and time, missing preservation information) & they were later reconciled by the sampling contractor. Clarifications were received as emails from the sampling contractor.
2) Sample results are reported from the combination of Full Scan and SIM runs.
3) Some of the VOC, SVOC and SIM reporting limits were reported by the contract lab at higher concentration levels than those listed in the QAPP (MA 1568.0).

The samples were evaluated based on the following QC elements:

$ Holding Time
$ Method and Trip Blanks
$ Initial and Continuing Calibration
$ Surrogate Recoveries
$ Lab Control Spike Recovery
$ Target Compound and Reporting Limits
$ GC/MS Spectra Matching Criteria

Overall Assessment

All of the samples met the technical acceptance criteria for each of the QC elements listed above with the exception of the following:

Three ICALs (one VOC, one SVOC & one SIM) were evaluated in this report. They met the technical acceptance criteria for the percent relative standard deviations (%RSDs) and the minimum relative response factors (RRFs) for all target compounds and surrogates with the exception of the following:

$ The %RSD of Chloroethane (34.1%) in the VOC initial calibration exceeded the control limit of 30%. Recalculation of the %RSD indicated that it was not linear at the high end of the curve and the corresponding samples would be J/None qualified for this analyte.

$ The %RSD of 2-Hexanone (34.5%) in the VOC initial calibration exceeded the control limit of 30%. Recalculation of the %Reds indicated that it was not linear at the low end of the curve and the corresponding samples would be J/UJ qualified for this analyte.

$ The %RSD of Hexachlorocyclopentadiene (35.6%), 2,4-Dinitrophenol (36.8%) and Pentachlorophenol (37.2%) in the SVOC initial calibration exceeded the control limit of 30%. Recalculation of the %RSDs indicated that they were not linear at the low end of the curve and the corresponding samples would be J/UJ qualified for those analytes.

$ All of the CCV checks met the criteria for frequency of analysis, the SOW specified, minimum RRFs and %Ds as compared to the initial calibration with the exception of the

following:

"VOC"

Date/Time of Analysis/ Inst.	Compound	%D	Qualifier Detect/Non-detect	Associated Samples
05/28/08 20:51 B-5973 (closing ccv)	Methyl Acetate	55.6	J/None	J8K37, J8K38, J8K40

"SVOC"

Date/Time of Analysis/ Inst.	Compound	%D	Qualifier Detect/Non-detect	Associated Samples
06/12/08 22:23 G-5973 (opening ccv)	Hexachlorocyclopentadiene	-34.7	J/UJ	J8K37, J8K38, J8K40
	Pentachlorophenol	-35.2	J/UJ	"
	Di-n-octylphthalate	38.9	J/None	"
	Benzidine	33.5	J/None	"
061308 18:54 G-5973 (opening ccv)	Hexachlorocyclopentadiene	-39.1	J/UJ	"
	4,6-Dinitro-2-methylphenol	-36.0	J/UJ	"
	Di-n-octylphthalate	37.4	J/None	"

"SIM"

Date/Time of Analysis/ Inst.	Compound	%D	Qualifier Detect/Non-detect	Associated Samples
06/15/08 12:38 G-5973 (opening ccv)	Dibenzo(a,h)anthracene	30.8	J/None	J8K37, J8K38
	Acenaphthylene	29.9	J/None	J8K40

VOC DMCs (Soil)	Recovery Limits (%)	VOC DMCs (Soil)	Recovery Limits (%)
Vinyl Chloride-d3 (VCL)	68-122	1,2-Dichloropropane-d6 (DPA)	74-124
Chloroethane-d5 (CLA)	61-130	Toluene-d8 (TOL)	78-121
1,1-Dichloroethene-d2 (DCE)	45-132	Trans-1,3-Dichloropropene-d4 (TDP)	72-130
2-Butanone-d5 (BUT)	20-182	2-Hexanone-d5 (HEX)	17-184

Chloroform-d (CLF)	72-123	1,4-Dioxane-d8 (DXE)	50-150
1,2-Dichloroethane-d4 (DCA)	79-122	1,1,2,2-Tetrachloroethane-d2 (TCA)	56-161
Benzene-d6 (BEN)	80-121	1,2-Dichlorobenzene-d4 (DCZ)	70-131

All of the volatile surrogate recoveries met the applicable recovery criteria with exception of the following:

"VOC"

Sample	**DMC**	**%Recovery**	**Qualification Detects/Non-detects**	**Associated VOCs**
J8K40	BEN	78	J/UJ	Benzene
	TOL	69	J/UJ	Trichloroethene, Toluene, Tetrachloroethene, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Isopropylbenzene

"SVOC"

SVOC DMCs (Water)	Recovery Limits (%)	SVOC DMCs (Water)	Recovery Limits (%)
Phenol-d5 (PHL)	17-103	Dimethylphthalate-d6 (DMP)	43-111
Bis-(2-chloroethyl) ether-d8 (BCE)	12-98	Acenapthylene-d8 (ACY)	20-97
2-chlorophenol-d4 (2CP)	13-101	4-Nitrophenol-d4 (4NP)	16-166
4-Methylphenol-d8 (4MP)	8-100	Fluorene-d10 (FLR)	40-108
Nitrobenzene-d5 (NBZ)	16-103	4,6-Dinitro-2-methylphenol-d2 (NMP)	1-121
2-Nitrophenol-d4 (2NP)	16-104	Anthracene-d10 (ANC)	22-98
2,4-Dichlorophenol-d3 (DCP)	23-104	Pyrene-d10 (PYR)	51-120
4-chloroaniline-d4 (4CA)	1-145	Benzo(a)pyrene-d12 (BAP)	43-111
Fluoranthene-d10 (FLN)#	50-150	2-Methylnapthalene-d10 (2MN)#	50-150

# denotes SVOC-SIM surrogates

All of the SVOC/SIM surrogate recoveries met the applicable recovery criteria.

Internal Standards

The acceptance criteria for internal standards (IS) are +/- 30 seconds for retention time (RT) shifts and -50% to 100% of the IS area as compared to the IS RT and area of the daily continuing calibration standard. All of the results met the IS area and RT shift criteria with exceptions of the following:

SIM

- J8K37 - Internal Standard #2, #3 & #4 were higher than the QC limits

The corresponding compounds were qualified as J/None. They are as follows:

- For Internal Standard #2 (Naphthalene-d8)
  2-Methylnaphthalene, Naphthalene
- For Internal Standard #3 (Acenaphthene-d10)
  Acenaphthylene, Acenaphthene, Fluorene
- For Internal Standard #4 (Phenanthrene-d10)
  Pentachlorophenol, Phenanthrene, Anthracene, Fluoranthene

The PAH data were reported for different samples as seen in the tables below:

Compound	J8K37	J8K38	J8K40
Naphthalene	SIM	SIM	SIM
2-Methylnaphthalene	SIM	SIM	SIM
Acenaphthylene	SIM	SIM	SIM
Acenaphthene	SIM	SIM	SIM
Fluorene	SIM	SIM	SIM
Pentachlorophenol	SIM	SIM	SIM
Phenanthrene	SIM	SIM	SIM
Anthracene	SIM	SIM	SIM
Fluoranthene	SIM	SIM	SIM
Pyrene	SIM	SIM	SIM
Benzo(a)anthracene	SIM	SIM	SIM
Chrysene	SIM	SIM	SIM
Benzo(b)fluoranthene	SIM	SIM	SIM
Benzo(k)fluoranthene	SIM	SIM	SIM
Benzo(a)pyrene	SIM	SIM	SIM
Indeno(1,2,3-cd)pyrene	SIM	SIM	SIM
Dibenzo(a,h)anthracene	SIM	SIM	SIM
Benzo(g,h,i)perylene	SIM	SIM	SIM

The rest of the SVOC data was obtained through full scan runs.

The data, as qualified, can be used for all purposes.

Data Qualifiers		
	U	The analyte was not detected at or above the reported result.
	J	The analyte was positively identified. The associated numerical result is an estimate.
	UJ	The analyte was not detected at or above the reported estimated result. The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.
	R	The data are unusable for all purposes.
	N	There is evidence the analyte is present in this sample.
	JN	There is evidence that the analyte is present. The associated numerical result is an estimate.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K37

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.08

Sample wt/vol: 5.100 (g/mL) G Lab File ID: B16467

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 22 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.3	U
74-87-3	Chloromethane	1.3	U
75-01-4	Vinyl chloride	1.3	U
74-83-9	Bromomethane	1.3	U
75-00-3	Chloroethane	1.3	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	1.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	U
67-64-1	Acetone	6.3	U
75-15-0	Carbon disulfide	1.3	U
79-20-9	Methyl acetate	1.3	U
75-09-2	Methylene chloride	1.3	U
156-60-5	trans-1,2-Dichloroethene	1.3	U
1634-04-4	Methyl tert-butyl ether	1.3	U
75-34-3	1,1-Dichloroethane	1.3	U
156-59-2	cis-1,2-Dichloroethene	1.3	U
78-93-3	2-Butanone	6.3	U
74-97-5	Bromochloromethane	1.3	U
67-66-3	Chloroform	1.3	U
71-55-6	1,1,1-Trichloroethane	1.3	U
110-82-7	Cyclohexane	1.3	U
56-23-5	Carbon tetrachloride	1.3	U
71-43-2	Benzene	1.3	U
107-06-2	1,2-Dichloroethane	1.3	U
123-91-1	1,4-Dioxane	130	U
79-01-6	Trichloroethene	1.3	U
108-87-2	Methylcyclohexane	1.3	U
78-87-5	1,2-Dichloropropane	1.3	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	1.3	U
108-10-1	4-Methyl-2-pentanone	6.3	U
108-88-3	Toluene	1.3	U
10061-02-6	trans-1,3-Dichloropropene	1.3	U
79-00-5	1,1,2-Trichloroethane	1.3	U

 8/18/08

BREMERTON-012577

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K37

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.08

Sample wt/vol: 5.100 (g/mL) G Lab File ID: B16467

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 22 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.3	U
591-78-6	2-Hexanone	6.3	UJ
124-48-1	Dibromochloromethane	1.3	U
106-93-4	1,2-Dibromoethane	1.3	U
108-90-7	Chlorobenzene	1.3	U
100-41-4	Ethylbenzene	1.3	U
95-47-6	o-Xylene	1.3	U
179601-23-1	m,p-Xylene	1.3	U
100-42-5	Styrene	1.3	U
75-25-2	Bromoform	1.3	U
98-82-8	Isopropylbenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	U
541-73-1	1,3-Dichlorobenzene	1.3	U
106-46-7	1,4-Dichlorobenzene	1.3	U
95-50-1	1,2-Dichlorobenzene	1.3	U
96-12-8	1,2-Dibromo-3-chloropropane	1.3	U
120-82-1	1,2,4-Trichlorobenzene	6.3	U
87-61-6	1,2,3-Trichlorobenzene	6.3	U
87-68-3	Hexachlorobutadiene	1.3	U
67-72-1	Hexachloroethane	2.5	U
91-20-3	Naphthalene	1.3	U
630-20-6	1,1,1,2-Tetrachloroethane	1.3	U
96-18-4	1,2,3-Trichloropropane	1.3	U

8/18/08

BREMERTON-012578

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K37

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.08

Sample wt/vol: 5.100 (g/mL) G Lab File ID: B16467

Level: (TRACE or LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 22 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.11	6.5	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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20					
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22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	6.0	JN

[1] EPA-designated Registry Number.

8/18/08

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K37

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.08

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0873

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	26	U
108-95-2	Phenol	26	U
111-44-4	Bis(2-chloroethyl)ether	26	U
95-57-8	2-Chlorophenol	26	U
95-48-7	2-Methylphenol	26	U
108-60-1	2,2'-Oxybis(1-chloropropane)	26	U
98-86-2	Acetophenone	26	U
106-44-5	4-Methylphenol	26	U
621-64-7	N-Nitroso-di-n-propylamine	26	U
67-72-1	Hexachloroethane	26	U
98-95-3	Nitrobenzene	26	U
78-59-1	Isophorone	26	U
88-75-5	2-Nitrophenol	26	U
105-67-9	2,4-Dimethylphenol	26	U
111-91-1	Bis(2-chloroethoxy)methane	26	U
120-83-2	2,4-Dichlorophenol	26	U
91-20-3	Naphthalene	26	U
106-47-8	4-Chloroaniline	26	U
87-68-3	Hexachlorobutadiene	26	UJ
105-60-2	Caprolactam	26	U
59-50-7	4-Chloro-3-methylphenol	26	U
91-57-6	2-Methylnaphthalene	26	U
77-47-4	Hexachlorocyclopentadiene	64	U
88-06-2	2,4,6-Trichlorophenol	26	U
95-95-4	2,4,5-Trichlorophenol	26	U
92-52-4	1,1'-Biphenyl	26	U
91-58-7	2-Chloronaphthalene	26	U
88-74-4	2-Nitroaniline	51	U
131-11-3	Dimethylphthalate	26	U
606-20-2	2,6-Dinitrotoluene	26	U
208-96-8	Acenaphthylene	26	U
99-09-2	3-Nitroaniline	51	U
83-32-9	Acenaphthene	26	U
51-28-5	2,4-Dinitrophenol	130	UJ
100-02-7	4-Nitrophenol	51	U
132-64-9	Dibenzofuran	26	U
121-14-2	2,4-Dinitrotoluene	26	U

8/19/08

BREMERTON-012580

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K37

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.08

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0873

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	26	U
86-73-7	Fluorene	26	U
7005-72-3	4-Chlorophenyl-phenylether	26	U
100-01-6	4-Nitroaniline	51	U
534-52-1	4,6-Dinitro-2-methylphenol	51	UJ
86-30-6	N-Nitrosodiphenylamine 1	26	U
95-94-3	1,2,4,5-Tetrachlorobenzene	26	U
101-55-3	4-Bromophenyl-phenylether	26	U
118-74-1	Hexachlorobenzene	26	U
1912-24-9	Atrazine	26	U
87-86-5	Pentachlorophenol	26	UJ
85-01-8	Phenanthrene	26	U
120-12-7	Anthracene	26	U
86-74-8	Carbazole	26	U
84-74-2	Di-n-butylphthalate	26	U
206-44-0	Fluoranthene	26	U
129-00-0	Pyrene	26	U
85-68-7	Butylbenzylphthalate	16	J
91-94-1	3,3'-Dichlorobenzidine	26	U
56-55-3	Benzo(a)anthracene	26	U
218-01-9	Chrysene	26	U
117-81-7	Bis(2-ethylhexyl)phthalate	240	
117-84-0	Di-n-octylphthalate	26	U
205-99-2	Benzo(b)fluoranthene	26	U
207-08-9	Benzo(k)fluoranthene	26	U
50-32-8	Benzo(a)pyrene	26	U
193-39-5	Indeno(1,2,3-cd)pyrene	26	U
53-70-3	Dibenzo(a,h)anthracene	26	U
191-24-2	Benzo(g,h,i)perylene	26	U
58-90-2	2,3,4,6-Tetrachlorophenol	26	U
92-87-5	Benzidine	26	U
95-50-1	1,2-Dichlorobenzene	26	U
106-46-7	1,4-Dichlorobenzene	26	U
541-73-1	1,3-Dichlorobenzene	26	U
62-75-9	N-Nitrosodimethylamine	26	U
95-63-6	1,2,4-Trimethylbenzene	26	U
108-67-8	1,3,5-Trimethylbenzene	26	U

1 Cannot be separated from Diphenylamine

8/19/08

BREMERTON-012581

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K37

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.08

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0873

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.28	70	JN
02		Unknown-02	2.31	83	J
03		Unknown-03	2.47	58	J
04		Unknown-04	2.59	54	J
05		Unknown-05	2.70	58	J
06		Unknown-06	3.09	230	J
07		Unknown-07	4.42	65	J
08		Unknown-08	4.91	85	J
09		Unknown-09	8.17	130	J
10		Unknown-10	8.61	150	J
11		Unknown-11	10.17	94	JL
12	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.29	790	NJ
13		Unknown-12	10.59	280	JN
14		Unknown-13	12.89	65	JN
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

8/19/08

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K37

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.08

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0951

Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.3	U
91-57-6	2-Methylnaphthalene	1.3	U
208-96-8	Acenaphthylene	1.3	U
83-32-9	Acenaphthene	1.3	U
86-73-7	Fluorene	1.3	U
87-86-5	Pentachlorophenol	2.6	U
85-01-8	Phenanthrene	1.3	U
120-12-7	Anthracene	1.3	U
206-44-0	Fluoranthene	1.3	U
129-00-0	Pyrene	1.3	U
56-55-3	Benzo(a)anthracene	1.3	U
218-01-9	Chrysene	1.3	U
205-99-2	Benzo(b)fluoranthene	1.3	U
207-08-9	Benzo(k)fluoranthene	1.3	U
50-32-8	Benzo(a)pyrene	1.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.3	U
53-70-3	Dibenzo(a,h)anthracene	1.3	U
191-24-2	Benzo(g,h,i)perylene	1.3	U

[1] Cannot be separated from Diphenylamine

8/19/08

SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K38

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.09

Sample wt/vol: 6.100 (g/mL) G Lab File ID: B16468

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 10 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	0.91	U
74-87-3	Chloromethane	0.91	U
75-01-4	Vinyl chloride	0.91	U
74-83-9	Bromomethane	0.91	U
75-00-3	Chloroethane	0.91	U
75-69-4	Trichlorofluoromethane	0.91	U
75-35-4	1,1-Dichloroethene	0.91	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.91	U
67-64-1	Acetone	4.6	U
75-15-0	Carbon disulfide	0.91	U
79-20-9	Methyl acetate	0.91	U
75-09-2	Methylene chloride	0.91 ~~0.87~~	~~JB~~ U
156-60-5	trans-1,2-Dichloroethene	0.91	U
1634-04-4	Methyl tert-butyl ether	0.91	U
75-34-3	1,1-Dichloroethane	0.91	U
156-59-2	cis-1,2-Dichloroethene	0.91	U
78-93-3	2-Butanone	4.6	U
74-97-5	Bromochloromethane	0.91	U
67-66-3	Chloroform	0.91	U
71-55-6	1,1,1-Trichloroethane	0.91	U
110-82-7	Cyclohexane	0.91	U
56-23-5	Carbon tetrachloride	0.91	U
71-43-2	Benzene	0.91	U
107-06-2	1,2-Dichloroethane	0.91	U
123-91-1	1,4-Dioxane	91	U
79-01-6	Trichloroethene	0.91	U
108-87-2	Methylcyclohexane	0.91	U
78-87-5	1,2-Dichloropropane	0.91	U
75-27-4	Bromodichloromethane	0.91	U
10061-01-5	cis-1,3-Dichloropropene	0.91	U
108-10-1	4-Methyl-2-pentanone	4.6	U
108-88-3	Toluene	0.26	J
10061-02-6	trans-1,3-Dichloropropene	0.91	U
79-00-5	1,1,2-Trichloroethane	0.91	U

8/18/08

BREMERTON-012584

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K38

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.09

Sample wt/vol: 6.100 (g/mL) G Lab File ID: B16468

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 10 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	0.91	U
591-78-6	2-Hexanone	4.6	UJ
124-48-1	Dibromochloromethane	0.91	U
106-93-4	1,2-Dibromoethane	0.91	U
108-90-7	Chlorobenzene	0.91	U
100-41-4	Ethylbenzene	0.91	U
95-47-6	o-Xylene	0.91	U
179601-23-1	m,p-Xylene	0.91	U
100-42-5	Styrene	0.91	U
75-25-2	Bromoform	0.91	U
98-82-8	Isopropylbenzene	0.91	U
79-34-5	1,1,2,2-Tetrachloroethane	0.91	U
541-73-1	1,3-Dichlorobenzene	0.91	U
106-46-7	1,4-Dichlorobenzene	0.91	U
95-50-1	1,2-Dichlorobenzene	0.91	U
96-12-8	1,2-Dibromo-3-chloropropane	0.91	U
120-82-1	1,2,4-Trichlorobenzene	4.6	U
87-61-6	1,2,3-Trichlorobenzene	4.6	U
87-68-3	Hexachlorobutadiene	0.91	U
67-72-1	Hexachloroethane	1.8	U
91-20-3	Naphthalene	0.91	U
630-20-6	1,1,1,2-Tetrachloroethane	0.91	U
96-18-4	1,2,3-Trichloropropane	0.91	U

8/18/08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K38

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.09

Sample wt/vol: 6.100 (g/mL) G Lab File ID: B16468

Level: (TRACE or LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 10 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.52	3.7	JN
02		Unknown-02	11.13	5.0	JN
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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19					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

8/18/08

1D - FORM I SV-1 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K38

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.09

Sample wt/vol: 100.9 (g/mL) G Lab File ID: G0866

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	22	U
108-95-2	Phenol	22	U
111-44-4	Bis(2-chloroethyl)ether	22	U
95-57-8	2-Chlorophenol	22	U
95-48-7	2-Methylphenol	22	U
108-60-1	2,2'-Oxybis(1-chloropropane)	22	U
98-86-2	Acetophenone	22	U
106-44-5	4-Methylphenol	22	U
621-64-7	N-Nitroso-di-n-propylamine	22	U
67-72-1	Hexachloroethane	22	U
98-95-3	Nitrobenzene	22	U
78-59-1	Isophorone	22	U
88-75-5	2-Nitrophenol	22	U
105-67-9	2,4-Dimethylphenol	22	U
111-91-1	Bis(2-chloroethoxy)methane	22	U
120-83-2	2,4-Dichlorophenol	22	U
91-20-3	Naphthalene	22	U
106-47-8	4-Chloroaniline	22	U
87-68-3	Hexachlorobutadiene	22	U
105-60-2	Caprolactam	22	U
59-50-7	4-Chloro-3-methylphenol	22	U
91-57-6	2-Methylnaphthalene	22	U
77-47-4	Hexachlorocyclopentadiene	55	UJ
88-06-2	2,4,6-Trichlorophenol	22	U
95-95-4	2,4,5-Trichlorophenol	22	U
92-52-4	1,1'-Biphenyl	22	U
91-58-7	2-Chloronaphthalene	22	U
88-74-4	2-Nitroaniline	44	U
131-11-3	Dimethylphthalate	22	U
606-20-2	2,6-Dinitrotoluene	22	U
208-96-8	Acenaphthylene	22	U
99-09-2	3-Nitroaniline	44	U
83-32-9	Acenaphthene	22	U
51-28-5	2,4-Dinitrophenol	110	UJ
100-02-7	4-Nitrophenol	44	U
132-64-9	Dibenzofuran	22	U
121-14-2	2,4-Dinitrotoluene	22	U

8/19/08

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K38

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.09

Sample wt/vol: 100.9 (g/mL) G Lab File ID: G0866

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	22	U
86-73-7	Fluorene	22	U
7005-72-3	4-Chlorophenyl-phenylether	22	U
100-01-6	4-Nitroaniline	44	U
534-52-1	4,6-Dinitro-2-methylphenol	44	UJ
86-30-6	N-Nitrosodiphenylamine 1	22	U
95-94-3	1,2,4,5-Tetrachlorobenzene	22	U
101-55-3	4-Bromophenyl-phenylether	22	U
118-74-1	Hexachlorobenzene	22	U
1912-24-9	Atrazine	22	U
87-86-5	Pentachlorophenol	22	UJ
85-01-8	Phenanthrene	22	U
120-12-7	Anthracene	22	U
86-74-8	Carbazole	22	U
84-74-2	Di-n-butylphthalate	22	U
206-44-0	Fluoranthene	22	U
129-00-0	Pyrene	22	U
85-68-7	Butylbenzylphthalate	22	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	22	U
218-01-9	Chrysene	22	U
117-81-7	Bis(2-ethylhexyl)phthalate	82	
117-84-0	Di-n-octylphthalate	22	U
205-99-2	Benzo(b)fluoranthene	22	U
207-08-9	Benzo(k)fluoranthene	22	U
50-32-8	Benzo(a)pyrene	22	U
193-39-5	Indeno(1,2,3-cd)pyrene	22	U
53-70-3	Dibenzo(a,h)anthracene	22	U
191-24-2	Benzo(g,h,i)perylene	22	U
58-90-2	2,3,4,6-Tetrachlorophenol	22	U
92-87-5	Benzidine	22	U
95-50-1	1,2-Dichlorobenzene	22	U
106-46-7	1,4-Dichlorobenzene	22	U
541-73-1	1,3-Dichlorobenzene	22	U
62-75-9	N-Nitrosodimethylamine	22	U
95-63-6	1,2,4-Trimethylbenzene	22	U
108-67-8	1,3,5-Trimethylbenzene	22	U

1 Cannot be separated from Diphenylamine

8/19/08

BREMERTON-012588

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K38

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.09

Sample wt/vol: 100.9 (g/mL) G Lab File ID: G0866

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.31	90	JN
02		Unknown-02	2.77	48	J
03		Unknown-03	3.09	180	J
04		Unknown-04	4.42	48	J
05		Unknown-05	4.92	70	J
06		Unknown-06	8.12	59	J
07		Unknown-07	8.61	73	J
08		Unknown-08	10.11	51	J
09		Unknown-09	10.16	67	J
10	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.28	320	NJ
11		Unknown-10	10.59	80	JN
12		Unknown-11	17.95	59	JN
13	000111-02-4	2,6,10,14,18,22-Tetracosahexa	18.23	48	NJ
14		Unknown-12	21.03	62	JN
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

8/19/08

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K38

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.09

Sample wt/vol: 100.9 (g/mL) G Lab File ID: G0954

Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.1	U
91-57-6	2-Methylnaphthalene	1.1	U
208-96-8	Acenaphthylene	1.1	U
83-32-9	Acenaphthene	1.1	U
86-73-7	Fluorene	1.1	U
87-86-5	Pentachlorophenol	2.2	U
85-01-8	Phenanthrene	1.1	U
120-12-7	Anthracene	1.1	U
206-44-0	Fluoranthene	1.1	U
129-00-0	Pyrene	1.1	U
56-55-3	Benzo(a)anthracene	1.1	U
218-01-9	Chrysene	1.1	U
205-99-2	Benzo(b)fluoranthene	1.1	U
207-08-9	Benzo(k)fluoranthene	1.1	U
50-32-8	Benzo(a)pyrene	1.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.1	U
53-70-3	Dibenzo(a,h)anthracene	1.1	U
191-24-2	Benzo(g,h,i)perylene	1.1	U

[1] Cannot be separated from Diphenylamine

8/19/08

SOM01.2 (6/2007)

RR437

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K40

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.10

Sample wt/vol: 5.600 (g/mL) G Lab File ID: B16469

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 18 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.1	U
74-87-3	Chloromethane	1.1	U
75-01-4	Vinyl chloride	1.1	U
74-83-9	Bromomethane	1.1	U
75-00-3	Chloroethane	1.1	U
75-69-4	Trichlorofluoromethane	1.1	U
75-35-4	1,1-Dichloroethene	1.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U
67-64-1	Acetone	16	
75-15-0	Carbon disulfide	1.1	U
79-20-9	Methyl acetate	1.1	U
75-09-2	Methylene chloride	1.1 ~~0.79~~	~~JB~~ U
156-60-5	trans-1,2-Dichloroethene	1.1	U
1634-04-4	Methyl tert-butyl ether	1.1	U
75-34-3	1,1-Dichloroethane	1.1	U
156-59-2	cis-1,2-Dichloroethene	1.1	U
78-93-3	2-Butanone	5.4	U
74-97-5	Bromochloromethane	1.1	U
67-66-3	Chloroform	1.1	U
71-55-6	1,1,1-Trichloroethane	1.1	U
110-82-7	Cyclohexane	1.1	U
56-23-5	Carbon tetrachloride	1.1	U
71-43-2	Benzene	1.1	UJ
107-06-2	1,2-Dichloroethane	1.1	U
123-91-1	1,4-Dioxane	110	U
79-01-6	Trichloroethene	1.1	UJ
108-87-2	Methylcyclohexane	1.1	U
78-87-5	1,2-Dichloropropane	1.1	U
75-27-4	Bromodichloromethane	1.1	U
10061-01-5	cis-1,3-Dichloropropene	1.1	U
108-10-1	4-Methyl-2-pentanone	5.4	U
108-88-3	Toluene	0.99	J
10061-02-6	trans-1,3-Dichloropropene	1.1	U
79-00-5	1,1,2-Trichloroethane	1.1	U

8/18/08

SOM01.2 (6/2007)

BREMERTON-012591

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K40

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.10

Sample wt/vol: 5.600 (g/mL) G Lab File ID: B16469

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 18 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.1	UJ
591-78-6	2-Hexanone	5.4	UJ
124-48-1	Dibromochloromethane	1.1	U
106-93-4	1,2-Dibromoethane	1.1	U
108-90-7	Chlorobenzene	1.1	U
100-41-4	Ethylbenzene	1.1	UJ
95-47-6	o-Xylene	1.1	UJ
179601-23-1	m,p-Xylene	1.1	UJ
100-42-5	Styrene	1.1	UJ
75-25-2	Bromoform	1.1	U
98-82-8	Isopropylbenzene	1.1	UJ
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
541-73-1	1,3-Dichlorobenzene	1.1	U
106-46-7	1,4-Dichlorobenzene	1.1	U
95-50-1	1,2-Dichlorobenzene	1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	1.1	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U
87-68-3	Hexachlorobutadiene	1.1	U
67-72-1	Hexachloroethane	2.2	U
91-20-3	Naphthalene	1.1	U
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U

8/18/08

BREMERTON-012592

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K40

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.10

Sample wt/vol: 5.600 (g/mL) G Lab File ID: B16469

Level: (TRACE or LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 18 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.13	4.9	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	8.1	JN

[1] EPA-designated Registry Number.

8/18/08

BREMERTON-012593

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K40

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.10

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0867

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	24	U
108-95-2	Phenol	24	U
111-44-4	Bis(2-chloroethyl)ether	24	U
95-57-8	2-Chlorophenol	24	U
95-48-7	2-Methylphenol	24	U
108-60-1	2,2'-Oxybis(1-chloropropane)	24	U
98-86-2	Acetophenone	24	U
106-44-5	4-Methylphenol	24	U
621-64-7	N-Nitroso-di-n-propylamine	24	U
67-72-1	Hexachloroethane	24	U
98-95-3	Nitrobenzene	24	U
78-59-1	Isophorone	24	U
88-75-5	2-Nitrophenol	24	U
105-67-9	2,4-Dimethylphenol	24	U
111-91-1	Bis(2-chloroethoxy)methane	24	U
120-83-2	2,4-Dichlorophenol	24	U
91-20-3	Naphthalene	24	U
106-47-8	4-Chloroaniline	24	U
87-68-3	Hexachlorobutadiene	24	U
105-60-2	Caprolactam	24	U
59-50-7	4-Chloro-3-methylphenol	24	U
91-57-6	2-Methylnaphthalene	24	U
77-47-4	Hexachlorocyclopentadiene	61	UJ
88-06-2	2,4,6-Trichlorophenol	24	U
95-95-4	2,4,5-Trichlorophenol	24	U
92-52-4	1,1'-Biphenyl	24	U
91-58-7	2-Chloronaphthalene	24	U
88-74-4	2-Nitroaniline	49	U
131-11-3	Dimethyl phthalate	24	U
606-20-2	2,6-Dinitrotoluene	24	U
208-96-8	Acenaphthylene	24	U
99-09-2	3-Nitroaniline	49	U
83-32-9	Acenaphthene	24	U
51-28-5	2,4-Dinitrophenol	120	UJ
100-02-7	4-Nitrophenol	49	U
132-64-9	Dibenzofuran	24	U
121-14-2	2,4-Dinitrotoluene	24	U

8/19/08

1E - FORM I SV-2 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K40

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.10

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0867

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	24	U
86-73-7	Fluorene	24	U
7005-72-3	4-Chlorophenyl-phenylether	24	U
100-01-6	4-Nitroaniline	49	U
534-52-1	4,6-Dinitro-2-methylphenol	49	UJ
86-30-6	N-Nitrosodiphenylamine 1	24	U
95-94-3	1,2,4,5-Tetrachlorobenzene	24	U
101-55-3	4-Bromophenyl-phenylether	24	U
118-74-1	Hexachlorobenzene	24	U
1912-24-9	Atrazine	24	U
87-86-5	Pentachlorophenol	24	UJ
85-01-8	Phenanthrene	24	U
120-12-7	Anthracene	24	U
86-74-8	Carbazole	24	U
84-74-2	Di-n-butylphthalate	24	U
206-44-0	Fluoranthene	24	U
129-00-0	Pyrene	24	U
85-68-7	Butylbenzylphthalate	24	U
91-94-1	3,3'-Dichlorobenzidine	24	U
56-55-3	Benzo(a)anthracene	24	U
218-01-9	Chrysene	24	U
117-81-7	Bis(2-ethylhexyl)phthalate	160	
117-84-0	Di-n-octylphthalate	24	U
205-99-2	Benzo(b)fluoranthene	24	U
207-08-9	Benzo(k)fluoranthene	24	U
50-32-8	Benzo(a)pyrene	24	U
193-39-5	Indeno(1,2,3-cd)pyrene	24	U
53-70-3	Dibenzo(a,h)anthracene	24	U
191-24-2	Benzo(g,h,i)perylene	24	U
58-90-2	2,3,4,6-Tetrachlorophenol	24	U
92-87-5	Benzidine	24	U
95-50-1	1,2-Dichlorobenzene	24	U
106-46-7	1,4-Dichlorobenzene	24	U
541-73-1	1,3-Dichlorobenzene	24	U
62-75-9	N-Nitrosodimethylamine	24	U
95-63-6	1,2,4-Trimethylbenzene	24	U
108-67-8	1,3,5-Trimethylbenzene	24	U

1 Cannot be separated from Diphenylamine

 8/19/08

BREMERTON-012595

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K40

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.10

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0867

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.28	59	JN
02		Unknown-02	2.47	48	J
03		Unknown-03	2.70	120	J
04		Unknown-04	2.77	52	J
05		Unknown-05	3.09	190	J
06		Unknown-06	4.92	69	J
07		Unknown-07	8.14	80	J
08		Unknown-08	8.61	95	J
09	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.28	480	NJ
10		Unknown-09	10.59	120	JN
11		Unknown-10	18.64	48	J
12		Unknown-11	21.32	87	J
13		Unknown-12	22.72	50	J
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

8/19/08

BREMERTON-012596

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K40

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K37

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.10

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0972

Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.2	U
91-57-6	2-Methylnaphthalene	1.2	U
208-96-8	Acenaphthylene	1.2	U
83-32-9	Acenaphthene	1.2	U
86-73-7	Fluorene	1.2	U
87-86-5	Pentachlorophenol	2.4	U
85-01-8	Phenanthrene	1.2	U
120-12-7	Anthracene	1.2	U
206-44-0	Fluoranthene	1.2	U
129-00-0	Pyrene	1.2	U
56-55-3	Benzo(a)anthracene	1.2	U
218-01-9	Chrysene	1.2	U
205-99-2	Benzo(b)fluoranthene	1.2	U
207-08-9	Benzo(k)fluoranthene	1.2	U
50-32-8	Benzo(a)pyrene	1.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.2	U
53-70-3	Dibenzo(a,h)anthracene	1.2	U
191-24-2	Benzo(g,h,i)perylene	1.2	U

[1] Cannot be separated from Diphenylamine

8/19/08

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: September 18, 2008

TO: Renee Nordeen, START-3 Project Manager, E & E, Seattle, WA

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington

SUBJ: **Organic Data Summary Check,**
Bremerton Gasworks Properties, Bremerton, Washington

REF: TDD: 07-01-0008 PAN: 002233.0178.01BR

The data summary check of 1 water and 5 soil samples collected from the Bremerton Gasworks Properties site located in Bremerton, Washington, has been completed. Analysis for organics (EPA CLP SOW SOM01.2) was performed by KAP Technologies, Inc., The Woodlands, Texas.

The samples were numbered:

J8K74	J8K75	J8K76	J8K77	J8K78
J8K92				

No discrepancies were noted. The secondary reviewer added "Q" bias qualifiers to positive results less than the Contract Required Quantitation Limit.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, Washington 98101

Sept 16, 2008

Reply to
Attn of: OEA-095

MEMORANDUM

Subject: Data Review Report for the Volatile, Semi-Volatile Organic (SVOC / SIM) Analyses of Samples collected from the Bremerton Gasworks Brownfield Site
Case: 37435 SDGs: J8K92

From: Raymond Wu, Chemist
Office of Environmental Assessment 9/17/08

To: Joanne LaBaw, Site Assessment Manager
Office of Environmental Cleanup

CC: Renee Nordeen, Project Manager
Ecology and Environment, Inc.

The quality assurance (QA) review of the analytical data generated from the analysis of 1 water sample & 5 soil samples collected from the above referenced site has been completed. Samples were analyzed for Volatile, Semi-Volatile (SVOC/SIM) in accordance with the USEPA Contract Laboratory Program (CLP) Statement of Work (SOW) for Organic Analyses (SOM01.2) by KAP Technologies, Inc. in The Woodlands, Texas. The following samples were evaluated in this validation report:

SDG: J8K92

J8K74	J8K75	J8K76	J8K77	J8K78	J8K92

DATA QUALIFICATIONS

The following comments refer to the laboratory performance in meeting the Quality Control specifications outlined in the Sampling and Quality Assurance Plan July 1, 2008, prepared by Ecology and Environment, USEPA CLP SOW for Organic Analysis (SOM01.2, 05/2008), and the applicable criteria set forth in the USEPA Contract Laboratory Program's National Functional Guidelines for Organic Data Review (07/2007). The data reviews conducted on these analyses were based on the QC Forms and Sample Data Summary Forms submitted by the laboratories. Review of the raw data of the analyses was not conducted. The conclusions presented herein are based on the information provided for the review.

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Please note:

1) SVOC sample results were reported from the combination of Full Scan & Full Scan Dilutions.
2) Some of the VOC, SVOC and SIM reporting limits were reported by the contract lab at higher concentration levels than those listed in the QAPP (MA 1568.0).
3) 1,4-Dioxane was not calibrated by the contract lab.

The samples were evaluated based on the following QC elements:

- $ Holding Time
- $ Method and Trip Blanks
- $ Initial and Continuing Calibration
- $ Surrogate Recoveries
- $ Lab Control Spike Recovery
- $ Target Compound and Reporting Limits
- $ GC/MS Spectra Matching Criteria

Overall Assessment

All of the samples met the technical acceptance criteria for each of the QC elements listed above with the exception of the following:

Five ICALs (two VOC, one SVOC & two SIM) were evaluated in this report. They met the technical acceptance criteria for the percent relative standard deviations (%RSDs) and the minimum relative response factors (RRFs) for all target compounds and surrogates with the exception of the following:

6/15/08 @ 21:52 (VOC), 6/16/08 @ 10:01 (VOC), 6/11/08 @ 17:02 (SVOC)

- $ The %RSD of Bromomethane (34.8%), Chloroethane (38.1%), Methylene Chloride (35.0%) & Methylcyclohexane (32.1%) in the VOC initial calibration (instrument A) exceeded the control limit of 30%. Recalculation of the %RSD indicated that they were not linear at the low end of the curve and the corresponding samples would be J/UJ qualified for those analytes.

- $ The %RSD of Trichlorofluoromethane (37.7%) & Methylene Chloride (32.7%) in the VOC initial calibration (instrument B) exceeded the control limit of 30%. Recalculation of the %RSDs indicated that they were not linear at the low end of the curve and the corresponding samples would be J/UJ qualified for those analytes.

- $ The %RSD of Hexachlorocyclopentadiene (35.6%), 2,4-Dinitrophenol (36.8%) and Pentachlorophenol (37.2%) in the SVOC initial calibration exceeded the control limit of 30%. Recalculation of the %RSDs indicated that they were not linear at the low end of the curve and the corresponding samples would be J/UJ qualified for those analytes.

$ All of the CCV checks met the criteria for frequency of analysis, the SOW specified, minimum RRFs and %Ds as compared to the initial calibration with the exception of the following:

"VOC"

Date/Time of Analysis/ Inst.	Compound	%D	Qualifier Detect/Non-detect	Associated Samples
06/15/08 21:52 A-5973 (opening ccv)	1,2-Dibromo-3-Chloropropane	-28.2	J/UJ	J8K92

"SVOC"

Date/Time of Analysis/ Inst.	Compound	%D	Qualifier Detect/Non-detect	Associated Samples
06/26/08 09:19 G-5973 (opening ccv)	Hexachlorocyclopentadiene	-30.8	J/UJ	J8K74 -> J8K78
	Pentachlorophenol	-28.6	J/UJ	"
06/26/08 18:24 G-5973 (closing ccv)	Hexachlorocyclopentadiene	-56.2	J/UJ	"
06/27/08 11:35 G-5973 (opening ccv)	4-Nitrophenol	-32.1	J/UJ	J8K74DL, J8K74DL2 J8K75DL, J8K75DL2 J8K76DL, J8K76DL2 J8K77DL, J8K77DL2 J8K77RE, J8K78DL

"SIM"

Date/Time of Analysis/ Inst.	Compound	%D	Qualifier Detect/Non-detect	Associated Samples
06/26/08 09:23 F-5973 (opening ccv)	Benzo(g,h,i)perylene	-35.3	J/UJ	J8K74 -> J8K78 J8K74RE -> J8K77RE
06/26/08 18:27 F-5973 (closing ccv)	Acenaphthylene	578.3	J/None	"
	Acenaphthene	97.3	J/None	"
	Fluorene	54.7	J/None	"
	Pentachlorophenol	54.1	J/None	"
	Phenanthrene	96.3	J/None	"
	Anthracene	106.2	J/None	"

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	Fluoranthene	81.0	J/None	"
	Pyrene	234.1	J/None	"
	Benzo(a)anthracene	968.6	J/None	"
	Chrysene	909.6	J/None	"
	Benzo(b)fluoranthene	706.8	J/None	"
	Benzo(k)fluoranthene	754.8	J/None	"
	Benzo(a)pyrene	1794.4	J/None	"
	Indeno(1,2,3-cd)pyrene	1269.0	J/None	"
	Dibenzo(a,h)anthracene	693.0	J/None	"
	Benzo(g,h,i)perylene	1028.2	J/None	"
06/27/08 20:41 F-5973 (opening ccv)	Dibenzo(a,h)anthracene	31.4	J/None	J8K74DL -> J8K78DL
06/28/08 04:34 F-5973 (closing ccv)	Benzo(b)fluoranthene	121.8	J/None	"
	Benzo(k)fluoranthene	151.6	J/None	"
	Benzo(a)pyrene	600.1	J/None	"
	Indeno(1,2,3-cd)pyrene	110.6	J/None	"
	Benzo(g,h,i)perylene	82.0	J/None	"

VOC DMCs (Water)	Recovery Limits (%)	VOC DMCs (Water)	Recovery Limits (%)
Vinyl Chloride-d3 (VCL)	65-131	1,2-Dichloropropane-d6 (DPA)	79-124
Chloroethane-d5 (CLA)	71-131	Toluene-d8 (TOL)	77-121
1,1-Dichloroethene-d2 (DCE)	55-104	Trans-1,3-Dichloropropene-d4 (TDP)	73-121
2-Butanone-d5 (BUT)	49-155	2-Hexanone-d5 (HEX)	28-135
Chloroform-d (CLF)	78-121	1,4-Dioxane-d8 (DXE)	50-150
1,2-Dichloroethane-d4 (DCA)	78-129	1,1,2,2-Tetrachloroethane-d2 (TCA)	73-125
Benzene-d6 (BEN)	77-124	1,2-Dichlorobenzene-d4 (DCZ)	80-131

All of the volatile surrogate recoveries for water met the applicable recovery criteria.

VOC DMCs (Soil)	Recovery Limits (%)	VOC DMCs (Soil)	Recovery Limits (%)
Vinyl Chloride-d3 (VCL)	68-122	1,2-Dichloropropane-d6 (DPA)	74-124
Chloroethane-d5 (CLA)	61-130	Toluene-d8 (TOL)	78-121

1,1-Dichloroethene-d2 (DCE)	45-132	Trans-1,3-Dichloropropene-d4 (TDP)	72-130
2-Butanone-d5 (BUT)	20-182	2-Hexanone-d5 (HEX)	17-184
Chloroform-d (CLF)	72-123	1,4-Dioxane-d8 (DXE)	50-150
1,2-Dichloroethane-d4 (DCA)	79-122	1,1,2,2-Tetrachloroethane-d2 (TCA)	56-161
Benzene-d6 (BEN)	80-121	1,2-Dichlorobenzene-d4 (DCZ)	70-131

All of the volatile surrogate recoveries met the applicable recovery criteria with exception of the following:

"VOC"

Sample	**DMC**	**%Recovery**	**Qualification Detects/Non-detects**	**Associated VOCs**
J8K74	CLA	139	J/None	Dichlorodifluoromethane, Chloromethane, Bromomethane, Chloroethane, Carbon Disulfide
J8K76	CLA	144	J/None	"

"SVOC"

SVOC DMCs (Soil)	Recovery Limits (%)	SVOC DMCs (Soil)	Recovery Limits (%)
Phenol-d5 (PHL)	17-103	Dimethylphthalate-d6 (DMP)	43-111
Bis-(2-chloroethyl) ether-d8 (BCE)	12-98	Acenapthylene-d8 (ACY)	20-97
2-chlorophenol-d4 (2CP)	13-101	4-Nitrophenol-d4 (4NP)	16-166
4-Methylphenol-d8 (4MP)	8-100	Fluorene-d10 (FLR)	40-108
Nitrobenzene-d5 (NBZ)	16-103	4,6-Dinitro-2-methylphenol-d2 (NMP)	1-121
2-Nitrophenol-d4 (2NP)	16-104	Anthracene-d10 (ANC)	22-98
2,4-Dichlorophenol-d3 (DCP)	23-104	Pyrene-d10 (PYR)	51-120
4-chloroaniline-d4 (4CA)	1-145	Benzo(a)pyrene-d12 (BAP)	43-111
Fluoranthene-d10 (FLN)#	50-150	2-Methylnaphthalene-d10 (2MN)#	50-150

# denotes SVOC-SIM surrogates

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All of the SVOC/SIM surrogate recoveries met the applicable recovery criteria with exception of the following:

"SVOC / SIM"

Sample	DMC	%Recovery	Qualification Detects/Non-detects	Associated VOCs
J8K74	4NP	11	J/UJ	2-Nitroaniline, 3-Nitroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, 4-Nitroaniline
	PYR	48	J/UJ	Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene
J8K76	BAP	141	J/None	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene
J8K77	BAP	161	J/None	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene
J8K75RE	4NP	7	J/UJ	2-Nitroaniline, 3-Nitroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, 4-Nitroaniline
	BAP	119	J/None	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene
J8K76RE	4MP	104	J/None	2-Methylphenol, 4-Methylphenol, 2,4-Dimethylphenol
J8K77RE	PYR	0	J/UJ	Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene
	BAP	26	J/UJ	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene
J8K75 (SIM)	FLN	45	J/UJ	Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene
J8K75RE (SIM)	2MN	167	J/None	Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Fluorene, Pentachlorophenol, Phenanthrene, Anthracene
J8K77 (SIM)	FLN	660	J/None	Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

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J8K77RE	FLN	432	J/None	Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene
	2MN	167	J/None	Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Fluorene, Pentachlorophenol, Phenanthrene, Anthracene
J8K76RE	2MN	175	J/None	Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Fluorene, Pentachlorophenol, Phenanthrene, Anthracene

Internal Standards

SVOC

The acceptance criteria for internal standards (IS) are +/- 30 seconds for retention time (RT) shifts and -50% to 200% of the IS area as compared to the IS RT and area of the daily continuing calibration standard. All of the results met the IS area and RT shift criteria with exceptions of the following:

- J8K74 - Internal Standard #5 was higher than the QC limits
- J8K75 - Internal Standards #5 & #6 were higher than the QC limits
- J8K75RE - Internal Standards #5 & #6 were higher than the QC limits
- J8K76 - Internal Standards #5 & #6 were higher than the QC limits
- J8K76RE - Internal Standards #5 & #6 were higher than the QC limits
- J8K77 - Internal Standard #5 was higher than the QC limit
- J8K77RE - Internal Standards #4, #5 & #6 were higher than the QC limits
- J8K77DL2 - Internal Standards #3 & #4 were higher than the QC limits

The corresponding compounds were qualified as J/None. They are as follows:

- J8K74 & J8K77
  For IS #5 (Chrysene-d12)

  Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Bis(2-ethylhexyl) phthalate, Chrysene

- J8K75, J8K75RE, J8K76 & J8K76RE
  For IS #5 (Chrysene-d12) & IS #6 (Perylene-d12)

  Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Bis(2-ethylhexyl) phthalate, Chrysene

  Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-

cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

- J8K77RE
  For IS #4 (Phenanthrene-d10), IS #5 (Chrysene-d12) & IS #6 (Perylene-d12)

  4,6-Dinitro-2-methylphenol, N-Nitrosodiphenylamine, 4-Bromophenyl-phenylether, Hexachlorobenzene, Atrazine, Pentachlorophenol, Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate, Fluoranthene

  Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Bis(2-ethylhexyl) phthalate, Chrysene

  Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

- J8K77DL2
  For IS #3 (Acenaphthene-d10) & IS #4 (Phenanthrene-d10)

  Hexachlorocyclopentadiene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 2,3,4,6-Tetrachlorophenol, 1,1'-Biphenyl, 2-Chloronaphthalene, 2-Nitroaniline, Dimethylphthalate, Acenaphthylene, 3-Nitroaniline, Acenaphthylene, 3-Nitroaniline, Acenaphthene, 2,4-Dinitrophenol, 4-Nitrophenol, Dibenzofuran, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 1,2,4,5-Tetrachlorobenzene, Diethylphthalate, 4-Chlorophenyl-phenylether, Fluorene, 4-Nitroaniline

  4,6-Dinitro-2-methylphenol, N-Nitrosodiphenylamine, 4-Bromophenyl-phenylether, Hexachlorobenzene, Atrazine, Pentachlorophenol, Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate, Fluoranthene

SIM

The acceptance criteria for internal standards (IS) are +/- 30 seconds for retention time (RT) shifts and -50% to +200% of the IS area as compared to the IS RT and area of the daily continuing calibration standard. All of the results met the IS area and RT shift criteria with exceptions of the following:

- J8K74 - Internal Standards #5 was higher than the QC limits
- J8K75 - Internal Standard #6 was higher than the QC limits
- J8K76 - Internal Standard #6 was higher than the QC limits
- J8K77 - Internal Standard #3, #5 & #6 were higher than the QC limits
- J8K74RE - Internal Standard #6 was higher than the QC limits
- J8K75RE - Internal Standard #5 & #6 were higher than the QC limits
- J8K76RE - Internal Standard #6 was higher than the QC limits
- J8K77RE - Internal Standard #5 & #6 were higher than the QC limits

- J8K74DL - Internal Standard #4 was lower than the QC limits
- J8K75DL - Internal Standard #4 was lower than the QC limits
- J8K76DL - Internal Standard #6 was higher than the QC limits
- J8K77DL - Internal Standard #6 was higher than the QC limits
- J8K78DL - Internal Standard #6 was higher than the QC limits

The corresponding compounds were qualified as J/None. They are as follows:

- J8K74
  For IS #5 (Chrysene-d12)

  Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Bis(2-ethylhexyl) phthalate, Chrysene

- J8K75, J8K76, J8K74RE, J8K76RE, J8K76DL, J8K77DL & J8K78DL
  For IS #6 (Perylene-d12)

  Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

- J8K77
  For IS #3 (Acenaphthene-d10), IS #5 (Chrysene-d12) & IS-6 (Perylene-d12)

  Hexachlorocyclopentadiene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 2,3,4,6-Tetrachlorophenol, 1,1'-Biphenyl, 2-Chloronaphthalene, 2-Nitroaniline, Dimethylphthalate, Acenaphthylene, 3-Nitroaniline, Acenaphthylene, 3-Nitroaniline, Acenaphthene, 2,4-Dinitrophenol, 4-Nitrophenol, Dibenzofuran, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 1,2,4,5-Tetrachlorobenzene, Diethylphthalate, 4-Chlorophenyl-phenylether, Fluorene, 4-Nitroaniline

  Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Bis(2-ethylhexyl) phthalate, Chrysene

  Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

- J8K75RE
  For IS #5 (Chrysene-d12) & IS #6 (Perylene-d12)

  Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Bis(2-ethylhexyl) phthalate, Chrysene

  Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

BREMERTON-012607

The corresponding compounds were qualified as J/UJ. They are as follows:

- J8K74DL & J8K75DL

  For IS#4 (Phenanthrene-d10)

  4,6-Dinitro-2-methylphenol, N-Nitrosodiphenylamine, 4-Bromophenyl-phenylether, Hexachlorobenzene, Atrazine, Pentachlorophenol, Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate, Fluoranthene
  Tetrachlorobenzene, Diethylphthalate, 4-Chlorophenyl-phenylether, Fluorene, 4-Nitroaniline

The PAH data were reported for different samples as seen in the tables below:

Compound	J8K74	J8K75	J8K76	J8K77	J8K78
Naphthalene	Full D.	Full D.	Full D.	Full S.	Full S.
2-Methylnaphthalene	Full D.	Full S.	Full D.	Full S.	Full S.
Acenaphthylene	Full D.	Full D.	Full D.	Full D.	Full S.
Acenaphthene	Full S.	Full S.	Full S.	Full S.	Full S.
Fluorene	Full D.	Full D.	Full D.	Full D.	Full S.
Pentachlorophenol	Full S.	Full S.	Full S.	Full S.	Full S.
Phenanthrene	Full D.	Full D2.	Full D2.	Full D2.	Full S.
Anthracene	Full D.	Full D.	Full D.	Full D.	Full S.
Fluoranthene	Full D2.	Full D2.	Full D2.	Full D2.	Full D.
Pyrene	Full D2.	Full D2.	Full D2.	Full D2.	Full D.
Benzo(a)anthracene	Full S.	Full D2.	Full D2.	Full D2.	Full S.
Chrysene	Full S.	Full D2.	Full D2.	Full D2.	Full S.
Benzo(b)fluoranthene	Full D.	Full D2.	Full D.	Full D.	Full S.
Benzo(k)fluoranthene	Full D.	Full D2.	Full D.	Full D.	Full S.
Benzo(a)pyrene	Full D.	Full D2.	Full D2.	Full D2.	Full S.
Indeno(1,2,3-cd)pyrene	Full D.	Full D2.	Full D.	Full D.	Full S.
Dibenzo(a,h)anthracene	Full D.	Full D.	Full D.	Full D.	Full S.
Benzo(g,h,i)perylene	Full D.	Full D2.	Full D.	Full D.	Full S.

(Note: None of the Semivolatile data was reported from the SIM runs;
Full S. indicates the results reported from **"Full Scan Runs"**;
Full D. indicates the results reported from **"Full Scan Dilutions"**
Full D2 indicates the results reported from **"Full Scan Dilution #2"**).

The data, as qualified, can be used for all purposes.

BREMERTON-012608

Data Qualifiers		
	U	The analyte was not detected at or above the reported result.
	J	The analyte was positively identified. The associated numerical result is an estimate.
	UJ	The analyte was not detected at or above the reported estimated result. The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.
	R	The data are unusable for all purposes.
	N	There is evidence the analyte is present in this sample.
	JN	There is evidence that the analyte is present. The associated numerical result is an estimate.

BREMERTON-012609

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K74

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.02

Sample wt/vol: 4.600 (g/mL) G Lab File ID: B16922

Level: (TRACE/LOW/MED) LOW Date Received: 06/06/2008

% Moisture: not dec. 18 Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.3	U
74-87-3	Chloromethane	1.3	U
75-01-4	Vinyl chloride	1.3	U
74-83-9	Bromomethane	1.3	U
75-00-3	Chloroethane	1.3	U
75-69-4	Trichlorofluoromethane	1.3	UJ
75-35-4	1,1-Dichloroethene	1.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	U
67-64-1	Acetone	6.6	U
75-15-0	Carbon disulfide	1.3	U
79-20-9	Methyl acetate	1.3	U
75-09-2	Methylene chloride	1.3	UJ
156-60-5	trans-1,2-Dichloroethene	1.3	U
1634-04-4	Methyl tert-butyl ether	1.3	U
75-34-3	1,1-Dichloroethane	1.3	U
156-59-2	cis-1,2-Dichloroethene	1.3	U
78-93-3	2-Butanone	6.6	U
74-97-5	Bromochloromethane	1.3	U
67-66-3	Chloroform	1.3	U
71-55-6	1,1,1-Trichloroethane	1.3	U
110-82-7	Cyclohexane	1.3	U
56-23-5	Carbon tetrachloride	1.3	U
71-43-2	Benzene	7.4	
107-06-2	1,2-Dichloroethane	1.3	U
123-91-1	1,4-Dioxane	130	U
79-01-6	Trichloroethene	1.3	U
108-87-2	Methylcyclohexane	0.65	JQ
78-87-5	1,2-Dichloropropane	1.3	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	1.3	U
108-10-1	4-Methyl-2-pentanone	6.6	U
108-88-3	Toluene	0.51	JQ
10061-02-6	trans-1,3-Dichloropropene	1.3	U
79-00-5	1,1,2-Trichloroethane	1.3	U

9/16/08

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K74

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.02

Sample wt/vol: 4.600 (g/mL) G Lab File ID: B16922

Level: (TRACE/LOW/MED) LOW Date Received: 06/06/2008

% Moisture: not dec. 18 Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.3	U
591-78-6	2-Hexanone	6.6	U
124-48-1	Dibromochloromethane	1.3	U
106-93-4	1,2-Dibromoethane	1.3	U
108-90-7	Chlorobenzene	1.3	U
100-41-4	Ethylbenzene	2.3	
95-47-6	o-Xylene	5.7	
179601-23-1	m,p-Xylene	2.9	
100-42-5	Styrene	1.3	U
75-25-2	Bromoform	1.3	U
98-82-8	Isopropylbenzene	0.48	J
79-34-5	1,1,2,2-Tetrachloroethane	1.3	U
541-73-1	1,3-Dichlorobenzene	1.3	U
106-46-7	1,4-Dichlorobenzene	1.3	U
95-50-1	1,2-Dichlorobenzene	1.3	U
96-12-8	1,2-Dibromo-3-chloropropane	1.3	U
120-82-1	1,2,4-Trichlorobenzene	6.6	U
87-61-6	1,2,3-Trichlorobenzene	6.6	U
87-68-3	Hexachlorobutadiene	1.3	U
67-72-1	Hexachloroethane	2.7	U
91-20-3	Naphthalene	270	E
630-20-6	1,1,1,2-Tetrachloroethane	1.3	U
96-18-4	1,2,3-Trichloropropane	1.3	U

→Report from J8K74DL

9/16/08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K74

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.02

Sample wt/vol: 4.600 (g/mL) G Lab File ID: B16922

Level: (TRACE or LOW/MED) LOW Date Received: 06/06/2008

% Moisture: not dec. 18 Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	6.57	4.2	JN
02		Unknown-02	7.21	24	J
03		Unknown-03	8.41	3.8	J
04		Unknown-04	9.98	4.9	J
05		Unknown-05	11.13	7.6	J
06	000611-14-3	Benzene, 1-ethyl-2-methyl-	15.47	10	NJ
07	000526-73-8	Benzene, 1,2,3-trimethyl-	15.65	12	NJ
08	000620-14-4	Benzene, 1-ethyl-3-methyl-	15.99	7.5	NJ
09	000095-63-6	Benzene, 1,2,4-trimethyl-	16.32	30	NJ
10	000108-67-8	Benzene, 1,3,5-trimethyl-	17.09	23	NJ
11	000496-11-7	Indane	17.30	46	NJ
12	000098-06-6	Benzene, tert-butyl-	17.54	3.8	NJ
13	000095-13-6	Indene	17.87	3.8	NJ
14		Unknown-06	17.90	3.8	JN
15	000488-23-3	Benzene, 1,2,3,4-tetramethyl-	18.10	6.1	NJ
16	000874-41-9	Benzene, 1-ethyl-2,4-dimethyl	18.22	6.1	NJ
17	001005-64-7	Benzene, 1-butenyl-, (E)-	18.36	6.3	NJ
18	000095-93-2	Benzene, 1,2,4,5-tetramethyl-	18.98	6.4	NJ
19	000527-53-7	Benzene, 1,2,3,5-tetramethyl-	19.07	9.8	NJ
20	004701-36-4	Benzene, (1-ethyl-1-propenyl)	19.42	6.0	NJ
21	000824-22-6	1H-Indene, 2,3-dihydro-4-meth	19.76	5.6	NJ
22	000535-77-3	Benzene, 1-methyl-3-(1-methyl	19.83	13	NJ
23		Unknown-07	20.48	3.7	JN
24		Unknown-08	20.64	4.2	JN
25	000095-15-8	Benzo[b]thiophene	21.33	17	NJ
26	001455-18-1	3-Methylbenzothiophene	23.05	4.2	NJ
27	000091-57-6	Naphthalene, 2-methyl-	23.25	92	NJ
28	000090-12-0	Naphthalene, 1-methyl-	23.54	88	NJ
29					
30					
	E9667961	Total Alkanes	N/A	36	JN

1 EPA-designated Registry Number.

9/16/08

0023

Report Only Naphthalene from this run

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K74DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.02DL

Sample wt/vol: 0.5000 (g/mL) G Lab File ID: B16915

Level: (TRACE/LOW/MED) LOW Date Received: 06/06/2008

% Moisture: not dec. 18 Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	160	D
75-15-0	Carbon disulfide	12	U
79-20-9	Methyl acetate	12	U
75-09-2	Methylene chloride	15	DB
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl tert-butyl ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	61	U
74-97-5	Bromochloromethane	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon tetrachloride	12	U
71-43-2	Benzene	10	DJ
107-06-2	1,2-Dichloroethane	12	U
123-91-1	1,4-Dioxane	1200	U
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-pentanone	61	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U

9/16/08

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K74DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.02DL

Sample wt/vol: 0.5000 (g/mL) G Lab File ID: B16915

Level: (TRACE/LOW/MED) LOW Date Received: 06/06/2008

% Moisture: not dec. 18 Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	61	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	7.5	DJ
95-47-6	o-Xylene	20	D
179601-23-1	m,p-Xylene	13	D
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	61	U
87-61-6	1,2,3-Trichlorobenzene	61	U
87-68-3	Hexachlorobutadiene	12	U
67-72-1	Hexachloroethane	24	U
91-20-3	Naphthalene	170	~~J~~ → Report
630-20-6	1,1,1,2-Tetrachloroethane	12	U
96-18-4	1,2,3-Trichloropropane	12	U

9/16/08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K74DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.02DL

Sample wt/vol: 0.5000 (g/mL) G Lab File ID: B16915

Level: (TRACE or LOW/MED) LOW Date Received: 06/06/2008

% Moisture: not dec. 18 Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.65	38	DJ
02		Unknown-02	5.38	36	DJ
03		Unknown-03	7.21	360	DJ
04		Unknown-04	8.41	67	DJ
05		Unknown-05	9.99	120	DJ
06		Unknown-06	11.13	58	DJ
07		Unknown-07	12.59	61	DJ
08		Unknown-08	14.70	91	DJ
09		Unknown-09	15.47	63	DJ
10	000108-67-8	Benzene, 1,3,5-trimethyl-	15.65	58	DNJ
11	000526-73-8	Benzene, 1,2,3-trimethyl-	16.32	87	DNJ
12		Unknown-10	16.52	57	DJ
13	000095-63-6	Benzene, 1,2,4-trimethyl-	17.09	110	DNJ
14	000496-11-7	Indane	17.30	86	DNJ
15	000135-98-8	Benzene, (1-methylpropyl)-	17.90	44	DNJ
16	000527-84-4	Benzene, 1-methyl-2-(1-methyl	18.08	47	DNJ
17	000934-80-5	Benzene, 4-ethyl-1,2-dimethyl	18.22	40	DNJ
18	000095-93-2	Benzene, 1,2,4,5-tetramethyl-	18.98	43	DNJ
19	000527-53-7	Benzene, 1,2,3,5-tetramethyl-	19.08	60	DNJ
20	002039-89-6	Benzene, 2-ethenyl-1,4-dimeth	19.76	57	DNJ
21	002870-04-4	Benzene, 2-ethyl-1,3-dimethyl	19.84	92	DNJ
22		Unknown-11	20.32	38	DJ
23	000091-57-6	Naphthalene, 2-methyl-	23.25	120	DNJ
24	000091-57-6	Naphthalene, 2-methyl-	23.54	350	DNJ
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A	770	DJ

1 EPA-designated Registry Number.

9/16/08

6073

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K74

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.02

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1317

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	24	U
108-95-2	Phenol	24	U
111-44-4	Bis(2-chloroethyl)ether	24	U
95-57-8	2-Chlorophenol	24	U
95-48-7	2-Methylphenol	24	U
108-60-1	2,2'-Oxybis(1-chloropropane)	24	U
98-86-2	Acetophenone	24	U
106-44-5	4-Methylphenol	24	U
621-64-7	N-Nitroso-di-n-propylamine	24	U
67-72-1	Hexachloroethane	24	U
98-95-3	Nitrobenzene	24	U
78-59-1	Isophorone	24	U
88-75-5	2-Nitrophenol	24	U
105-67-9	2,4-Dimethylphenol	24	U
111-91-1	Bis(2-chloroethoxy)methane	24	U
120-83-2	2,4-Dichlorophenol	24	U
91-20-3	Naphthalene	1800	E → Report from J8K74DL (Full S.)
106-47-8	4-Chloroaniline	24	U
87-68-3	Hexachlorobutadiene	24	U
105-60-2	Caprolactam	24	U
59-50-7	4-Chloro-3-methylphenol	24	U
91-57-6	2-Methylnaphthalene	880	E → "
77-47-4	Hexachlorocyclopentadiene	61	UJ
88-06-2	2,4,6-Trichlorophenol	24	U
95-95-4	2,4,5-Trichlorophenol	24	U
92-52-4	1,1'-Biphenyl	110	
91-58-7	2-Chloronaphthalene	24	U
88-74-4	2-Nitroaniline	49	UJ
131-11-3	Dimethylphthalate	24	U
606-20-2	2,6-Dinitrotoluene	24	U
208-96-8	Acenaphthylene	1500	E → "
99-09-2	3-Nitroaniline	49	UJ
83-32-9	Acenaphthene	360	
51-28-5	2,4-Dinitrophenol	120	UJ
100-02-7	4-Nitrophenol	49	UJ
132-64-9	Dibenzofuran	74	
[illegible]	[illegible]	[illegible]	[illegible]

BREMERTON-012616

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K74

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.02

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1317

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	24	U
86-73-7	Fluorene	630	E → Report from J8K740L (Full S.)
7005-72-3	4-Chlorophenyl-phenylether	24	U
100-01-6	4-Nitroaniline	49	UJ
534-52-1	4,6-Dinitro-2-methylphenol	49	U
86-30-6	N-Nitrosodiphenylamine 1	24	U
95-94-3	1,2,4,5-Tetrachlorobenzene	24	U
101-55-3	4-Bromophenyl-phenylether	24	U
118-74-1	Hexachlorobenzene	24	U
1912-24-9	Atrazine	24	U
87-86-5	Pentachlorophenol	24	UJ
85-01-8	Phenanthrene	1600	E → "
120-12-7	Anthracene	990	E → "
86-74-8	Carbazole	110	
84-74-2	Di-n-butylphthalate	24	U
206-44-0	Fluoranthene	2700	EJ → Report from J8K741 (Full S.)
129-00-0	Pyrene	1300	EJ → "
85-68-7	Butylbenzylphthalate	24	U
91-94-1	3,3'-Dichlorobenzidine	24	U
56-55-3	Benzo(a)anthracene	1400	EJ → Report from J8K740 (Full S.)
218-01-9	Chrysene	1000	EJ → "
117-81-7	Bis(2-ethylhexyl)phthalate	24	U
117-84-0	Di-n-octylphthalate	24	U
205-99-2	Benzo(b)fluoranthene	2600	E → "
207-08-9	Benzo(k)fluoranthene	2200	E → "
50-32-8	Benzo(a)pyrene	3300	E → "
193-39-5	Indeno(1,2,3-cd)pyrene	2600	E → "
53-70-3	Dibenzo(a,h)anthracene	970	E → "
191-24-2	Benzo(g,h,i)perylene	2600	E → "
58-90-2	2,3,4,6-Tetrachlorophenol	24	U
92-87-5	Benzidine	24	U
95-50-1	1,2-Dichlorobenzene	24	U
106-46-7	1,4-Dichlorobenzene	17	JQ
541-73-1	1,3-Dichlorobenzene	24	U
62-75-9	N-Nitrosodimethylamine	24	U
95-63-6	1,2,4-Trimethylbenzene	18	JQ
108-67-8	1,3,5-Trimethylbenzene	24	U

1 Cannot be separated from Diphenylamine

9/16/08 0587

BREMERTON-012617

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K74

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.02

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1317

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000100-80-1	Benzene, 1-ethenyl-3-methyl-	5.30	140	NJ
02	000673-32-5	Benzene, 1-propynyl-	6.14	160	NJ
03	000582-16-1	Naphthalene, 2,7-dimethyl-	11.47	140	NJ
04	000827-54-3	Naphthalene, 2-ethenyl-	11.75	140	NJ
05	000941-81-1	Azulene, 4,6,8-trimethyl-	12.79	180	NJ
06	000086-73-7	Fluorene	13.23	220	NJ
07		Unknown-01	13.62	130	JN
08		Unknown-02	13.74	170	JN
09	001730-37-6	9H-Fluorene, 1-methyl-	13.83	150	NJ
10		Unknown-03	13.87	150	JN
11	001430-97-3	9H-Fluorene, 2-methyl-	13.94	150	NJ
12		Unknown-04	14.01	180	JN
13		Unknown-05	14.09	240	JN
14	000132-65-0	Dibenzothiophene	14.17	180	NJ
15		Unknown-06	14.46	150	JN
16	000262-89-5	Dibenzo[a,e]cyclooctene	14.67	310	NJ
17	016587-52-3	Dibenzothiophene, 3-methyl-	14.78	220	NJ
18	000832-69-9	Phenanthrene, 1-methyl-	14.88	300	NJ
19	000832-69-9	Phenanthrene, 1-methyl-	14.91	280	NJ
20	000613-12-7	Anthracene, 2-methyl-	14.95	250	NJ
21		Unknown-07	15.01	910	JN
22	023707-65-5	Anthracene, 9-(2-propenyl)-	15.10	130	NJ
23	1000193-60-8	1,1,4a-Trimethyl-5,6-dimethyl	15.20	400	NJ
24	000084-65-1	9,10-Anthracenedione	15.25	240	NJ
25		Unknown-08	15.36	150	JN
26	001576-67-6	Phenanthrene, 3,6-dimethyl-	15.40	250	NJ
27	000781-43-1	9,10-Dimethylanthracene	15.49	360	NJ
28		Unknown-09	15.53	410	JN
29		Unknown-10	18.91	300	JN
30					
	E9667962	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/16/08

0585

BREMERTON-012618

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K74DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.02DL

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1335

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 10.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
100-52-7	Benzaldehyde	240	U	
108-95-2	Phenol	240	U	
111-44-4	Bis(2-chloroethyl)ether	240	U	
95-57-8	2-Chlorophenol	240	U	
95-48-7	2-Methylphenol	240	U	
108-60-1	2,2'-Oxybis(1-chloropropane)	240	U	
98-86-2	Acetophenone	240	U	
106-44-5	4-Methylphenol	240	U	
621-64-7	N-Nitroso-di-n-propylamine	240	U	
67-72-1	Hexachloroethane	240	U	
98-95-3	Nitrobenzene	240	U	
78-59-1	Isophorone	240	U	
88-75-5	2-Nitrophenol	240	U	
105-67-9	2,4-Dimethylphenol	240	U	
111-91-1	Bis(2-chloroethoxy)methane	240	U	
120-83-2	2,4-Dichlorophenol	240	U	
91-20-3	Naphthalene	1300	D	→ Repeat
106-47-8	4-Chloroaniline	240	U	
87-68-3	Hexachlorobutadiene	240	U	
105-60-2	Caprolactam	240	U	
59-50-7	4-Chloro-3-methylphenol	240	U	
91-57-6	2-Methylnaphthalene	690	D	→ Repeat
77-47-4	Hexachlorocyclopentadiene	610	UJ	
88-06-2	2,4,6-Trichlorophenol	240	U	
95-95-4	2,4,5-Trichlorophenol	240	U	
92-52-4	1,1'-Biphenyl	240	U	
91-58-7	2-Chloronaphthalene	240	U	
88-74-4	2-Nitroaniline	490	U	
131-11-3	Dimethylphthalate	240	U	
606-20-2	2,6-Dinitrotoluene	240	U	
208-96-8	Acenaphthylene	1100	D	→ Repeat
99-09-2	3-Nitroaniline	490	U	
83-32-9	Acenaphthene	300	D	
51-28-5	2,4-Dinitrophenol	1200	UJ	
100-02-7	4-Nitrophenol	490	UJ	
132-64-9	Dibenzofuran	240	U	
121-14-2	2,4-Dinitrotoluene	240	U	

BREMERTON-012619

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K74DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.02DL

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1335

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 10.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
84-66-2	Diethylphthalate	240	U	
86-73-7	Fluorene	450	~~D~~	→ Report
7005-72-3	4-Chlorophenyl-phenylether	240	U	
100-01-6	4-Nitroaniline	490	U	
534-52-1	4,6-Dinitro-2-methylphenol	490	U	
86-30-6	N-Nitrosodiphenylamine 1	240	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	240	U	
101-55-3	4-Bromophenyl-phenylether	240	U	
118-74-1	Hexachlorobenzene	240	U	
1912-24-9	Atrazine	240	U	
87-86-5	Pentachlorophenol	240	UJ	
85-01-8	Phenanthrene	2200	~~D~~	→ "
120-12-7	Anthracene	830	~~D~~	→ "
86-74-8	Carbazole	240	U	
84-74-2	Di-n-butylphthalate	240	U	
206-44-0	Fluoranthene	6700	DE	→ Report from J8K74 (Fail S.)
129-00-0	Pyrene	8400	DE	→ "
85-68-7	Butylbenzylphthalate	240	U	
91-94-1	3,3'-Dichlorobenzidine	240	U	
56-55-3	Benzo(a)anthracene	3200	~~D~~	→ Report
218-01-9	Chrysene	3200	~~D~~	→ "
117-81-7	Bis(2-ethylhexyl)phthalate	240	U	
117-84-0	Di-n-octylphthalate	240	U	
205-99-2	Benzo(b)fluoranthene	2000	~~D~~	→ "
207-08-9	Benzo(k)fluoranthene	2200	~~D~~	→ "
50-32-8	Benzo(a)pyrene	3600	~~D~~	→ "
193-39-5	Indeno(1,2,3-cd)pyrene	2000	~~D~~	→ "
53-70-3	Dibenzo(a,h)anthracene	600	~~D~~	→ "
191-24-2	Benzo(g,h,i)perylene	2100	~~D~~	→ "
58-90-2	2,3,4,6-Tetrachlorophenol	240	U	
92-87-5	Benzidine	240	U	
95-50-1	1,2-Dichlorobenzene	240	U	
106-46-7	1,4-Dichlorobenzene	240	U	
541-73-1	1,3-Dichlorobenzene	240	U	
62-75-9	N-Nitrosodimethylamine	240	U	
95-63-6	1,2,4-Trimethylbenzene	240	U	
108-67-8	1,3,5-Trimethylbenzene	240	U	

1 Cannot be separated from Diphenylamine

BREMERTON-012620

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K74DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.02DL

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1335

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 10.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000090-12-0	Naphthalene, 1-methyl-	10.25	860	DNJ
02		Unknown-01	15.00	1000	DJ
03	000243-17-4	11H-Benzo[b]fluorene	16.23	850	DNJ
04	000195-19-7	Benzo[c]phenanthrene	16.88	1200	DNJ
05	002541-69-7	Benz[a]anthracene, 7-methyl-	17.54	730	DNJ
06		Unknown-02	17.70	1600	DJ
07	000189-55-9	3,4:9,10-Dibenzopyrene	17.98	2200	DNJ
08		Unknown-03	18.18	1300	DJ
09		Unknown-04	18.25	1600	DJ
10		Unknown-05	18.45	960	DJ
11	000050-32-8	Benzo[a]pyrene	18.51	1300	DNJ
12		Unknown-06	18.71	1100	DJ
13	000192-97-2	Benzo[e]pyrene	18.76	1800	DNJ
14		Unknown-07	19.08	1200	DJ
15	072347-72-9	Propanamide, 2,2,3,3,3-pentaf	19.17	1000	DNJ
16		Unknown-08	19.24	1300	DJ
17		Unknown-09	19.41	980	DJ
18		Unknown-10	19.68	920	DJ
19		Unknown-11	19.88	830	DJ
20		Unknown-12	19.99	960	DJ
21		Unknown-13	20.16	750	DJ
22		Unknown-14	20.33	800	DJ
23		Unknown-15	20.52	720	DJ
24	000191-24-2	Benzo[ghi]perylene	20.71	1300	DNJ
25	000214-17-5	Benzo[b]chrysene	21.16	300	DNJ
26	000215-58-7	Benzo[b]triphenylene	21.26	930	DNJ
27	000191-24-2	Benzo[ghi]perylene	21.66	750	DNJ
28	000189-55-9	3,4:9,10-Dibenzopyrene	24.85	760	DNJ
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/16/08

0575

Report Only Fluoranthene & Pyrene

1D - FORM I SV-1 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K74DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.02DL2

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1336

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 100.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	2400	U
108-95-2	Phenol	2400	U
111-44-4	Bis(2-chloroethyl)ether	2400	U
95-57-8	2-Chlorophenol	2400	U
95-48-7	2-Methylphenol	2400	U
108-60-1	2,2'-Oxybis(1-chloropropane)	2400	U
98-86-2	Acetophenone	2400	U
106-44-5	4-Methylphenol	2400	U
621-64-7	N-Nitroso-di-n-propylamine	2400	U
67-72-1	Hexachloroethane	2400	U
98-95-3	Nitrobenzene	2400	U
78-59-1	Isophorone	2400	U
88-75-5	2-Nitrophenol	2400	U
105-67-9	2,4-Dimethylphenol	2400	U
111-91-1	Bis(2-chloroethoxy)methane	2400	U
120-83-2	2,4-Dichlorophenol	2400	U
91-20-3	Naphthalene	1600	DJ
106-47-8	4-Chloroaniline	2400	U
87-68-3	Hexachlorobutadiene	2400	U
105-60-2	Caprolactam	2400	U
59-50-7	4-Chloro-3-methylphenol	2400	U
91-57-6	2-Methylnaphthalene	2400	U
77-47-4	Hexachlorocyclopentadiene	6100	UJ
88-06-2	2,4,6-Trichlorophenol	2400	U
95-95-4	2,4,5-Trichlorophenol	2400	U
92-52-4	1,1'-Biphenyl	2400	U
91-58-7	2-Chloronaphthalene	2400	U
88-74-4	2-Nitroaniline	4900	U
131-11-3	Dimethylphthalate	2400	U
606-20-2	2,6-Dinitrotoluene	2400	U
208-96-8	Acenaphthylene	1700	DJ
99-09-2	3-Nitroaniline	4900	U
83-32-9	Acenaphthene	2400	U
51-28-5	2,4-Dinitrophenol	12000	UJ
100-02-7	4-Nitrophenol	4900	UJ
132-64-9	Dibenzofuran	2400	U
121-14-2	2,4-Dinitrotoluene	2400	U

BREMERTON-012622

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K74DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.02DL2

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1336

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 100.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	2400	U
86-73-7	Fluorene	2400	U
7005-72-3	4-Chlorophenyl-phenylether	2400	U
100-01-6	4-Nitroaniline	4900	U
534-52-1	4,6-Dinitro-2-methylphenol	4900	U
86-30-6	N-Nitrosodiphenylamine 1	2400	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2400	U
101-55-3	4-Bromophenyl-phenylether	2400	U
118-74-1	Hexachlorobenzene	2400	U
1912-24-9	Atrazine	2400	U
87-86-5	Pentachlorophenol	2400	UJ
85-01-8	Phenanthrene	2700	D
120-12-7	Anthracene	2400	U
86-74-8	Carbazole	2400	U
84-74-2	Di-n-butylphthalate	2400	U
206-44-0	Fluoranthene	6600	Ø → Report
129-00-0	Pyrene	9100	Ø → "
85-68-7	Butylbenzylphthalate	2400	U
91-94-1	3,3'-Dichlorobenzidine	2400	U
56-55-3	Benzo(a)anthracene	4300	D
218-01-9	Chrysene	4400	D
117-81-7	Bis(2-ethylhexyl)phthalate	2400	U
117-84-0	Di-n-octylphthalate	2400	U
205-99-2	Benzo(b)fluoranthene	3200	D
207-08-9	Benzo(k)fluoranthene	3800	D
50-32-8	Benzo(a)pyrene	5600	D
193-39-5	Indeno(1,2,3-cd)pyrene	3600	D
53-70-3	Dibenzo(a,h)anthracene	1200	DJ
191-24-2	Benzo(g,h,i)perylene	4200	D
58-90-2	2,3,4,6-Tetrachlorophenol	2400	U
92-87-5	Benzidine	2400	U
95-50-1	1,2-Dichlorobenzene	2400	U
106-46-7	1,4-Dichlorobenzene	2400	U
541-73-1	1,3-Dichlorobenzene	2400	U
62-75-9	N-Nitrosodimethylamine	2400	U
95-63-6	1,2,4-Trimethylbenzene	2400	U
108-67-8	1,3,5-Trimethylbenzene	2400	U

1 Cannot be separated from Diphenylamine

BREMERTON-012623

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: J8K74DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.02DL2

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1336

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 100.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	15.00	4400	DJ
02	132545-36-9	1-Methyl-4-ethyl 2-phenylsucc	15.20	2600	DNJ
03		Unknown-02	15.74	2600	DJ
04	002381-21-7	Pyrene, 1-methyl-	16.22	4400	DNJ
05		Unknown-03	16.42	3700	DJ
06	002381-21-7	Pyrene, 1-methyl-	16.45	2900	DNJ
07	002381-21-7	Pyrene, 1-methyl-	16.45	3000	DNJ
08		Unknown-04	17.37	6300	DJ
09		Unknown-05	17.58	2500	DJ
10	000192-97-2	Benzo[e]pyrene	18.50	3400	DNJ
11		Unknown-06	18.75	6500	DJ
12		Unknown-07	19.00	2600	DJ
13		Unknown-08	19.22	6300	DJ
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667962	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/16/08

BS32

BREMERTON-012624

DO NOT REPORT

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K74RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.02RE

Sample wt/vol: 100.1 (g/mL) G Lab File ID: F26787

Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1800	E
91-57-6	2-Methylnaphthalene	1300	E
208-96-8	Acenaphthylene	3100	E
83-32-9	Acenaphthene	390	E
86-73-7	Fluorene	720	E
87-86-5	Pentachlorophenol	36	E
85-01-8	Phenanthrene	4700	E
120-12-7	Anthracene	2100	E
206-44-0	Fluoranthene	12000	E
129-00-0	Pyrene	11000	E
56-55-3	Benzo(a)anthracene	7200	E
218-01-9	Chrysene	6600	E
205-99-2	Benzo(b)fluoranthene	3200	E
207-08-9	Benzo(k)fluoranthene	1500	E
50-32-8	Benzo(a)pyrene	3900	E
193-39-5	Indeno(1,2,3-cd)pyrene	1900	E
53-70-3	Dibenzo(a,h)anthracene	900	E
191-24-2	Benzo(g,h,i)perylene	1500	E

[1] Cannot be separated from Diphenylamine

9/16/08

DO NOT REPORT

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K74

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.02

Sample wt/vol: 100.1 (g/mL) G Lab File ID: F26782

Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1500	E
91-57-6	2-Methylnaphthalene	1200	E
208-96-8	Acenaphthylene	3600	E
83-32-9	Acenaphthene	380	E
86-73-7	Fluorene	560	E
87-86-5	Pentachlorophenol	37	E
85-01-8	Phenanthrene	4400	E
120-12-7	Anthracene	2100	E
206-44-0	Fluoranthene	11000	E
129-00-0	Pyrene	5200	E
56-55-3	Benzo(a)anthracene	3700	E
218-01-9	Chrysene	3400	E
205-99-2	Benzo(b)fluoranthene	10000	E
207-08-9	Benzo(k)fluoranthene	5300	E
50-32-8	Benzo(a)pyrene	12000	E
193-39-5	Indeno(1,2,3-cd)pyrene	6000	E
53-70-3	Dibenzo(a,h)anthracene	2700	E
191-24-2	Benzo(g,h,i)perylene	4800	E

[1] Cannot be separated from Diphenylamine

9/16/08

DO NOT REPORT

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K74DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.02DL

Sample wt/vol: 100.1 (g/mL) G Lab File ID: F26809

Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 10.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1500	DE
91-57-6	2-Methylnaphthalene	740	DE
208-96-8	Acenaphthylene	2300	DE
83-32-9	Acenaphthene	430	DE
86-73-7	Fluorene	850	DE
87-86-5	Pentachlorophenol	45	D
85-01-8	Phenanthrene	2600	DE
120-12-7	Anthracene	1100	DE
206-44-0	Fluoranthene	4900	DE
129-00-0	Pyrene	6200	DE
56-55-3	Benzo(a)anthracene	3500	DE
218-01-9	Chrysene	4600	DE
205-99-2	Benzo(b)fluoranthene	2700	DE
207-08-9	Benzo(k)fluoranthene	3200	DE
50-32-8	Benzo(a)pyrene	3800	DE
193-39-5	Indeno(1,2,3-cd)pyrene	1300	DE
53-70-3	Dibenzo(a,h)anthracene	720	DE
191-24-2	Benzo(g,h,i)perylene	1400	DE

[1] Cannot be separated from Diphenylamine

9/16/08

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K75

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.03

Sample wt/vol: 3.500 (g/mL) G Lab File ID: B16916

Level: (TRACE/LOW/MED) LOW Date Received: 06/06/2008

% Moisture: not dec. 21 Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.8	U
74-87-3	Chloromethane	1.8	U
75-01-4	Vinyl chloride	1.8	U
74-83-9	Bromomethane	1.8	U
75-00-3	Chloroethane	1.8	U
75-69-4	Trichlorofluoromethane	1.8	UJ
75-35-4	1,1-Dichloroethene	1.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.8	U
67-64-1	Acetone	9.0	U
75-15-0	Carbon disulfide	1.8	U
79-20-9	Methyl acetate	1.8	U
75-09-2	Methylene chloride	~~1.1~~ 1.8	UJB
156-60-5	trans-1,2-Dichloroethene	1.8	U
1634-04-4	Methyl tert-butyl ether	1.8	U
75-34-3	1,1-Dichloroethane	1.8	U
156-59-2	cis-1,2-Dichloroethene	1.8	U
78-93-3	2-Butanone	9.0	U
74-97-5	Bromochloromethane	1.8	U
67-66-3	Chloroform	1.8	U
71-55-6	1,1,1-Trichloroethane	1.8	U
110-82-7	Cyclohexane	1.8	U
56-23-5	Carbon tetrachloride	1.8	U
71-43-2	Benzene	1.8	U
107-06-2	1,2-Dichloroethane	1.8	U
123-91-1	1,4-Dioxane	180	U
79-01-6	Trichloroethene	1.8	U
108-87-2	Methylcyclohexane	1.8	U
78-87-5	1,2-Dichloropropane	1.8	U
75-27-4	Bromodichloromethane	1.8	U
10061-01-5	cis-1,3-Dichloropropene	1.8	U
108-10-1	4-Methyl-2-pentanone	9.0	U
108-88-3	Toluene	1.8	U
10061-02-6	trans-1,3-Dichloropropene	1.8	U
79-00-5	1,1,2-Trichloroethane	1.8	U

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BREMERTON-012628

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K75

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.03

Sample wt/vol: 3.500 (g/mL) G Lab File ID: B16916

Level: (TRACE/LOW/MED) LOW Date Received: 06/06/2008

% Moisture: not dec. 21 Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.8	U
591-78-6	2-Hexanone	9.0	U
124-48-1	Dibromochloromethane	1.8	U
106-93-4	1,2-Dibromoethane	1.8	U
108-90-7	Chlorobenzene	1.8	U
100-41-4	Ethylbenzene	1.8	U
95-47-6	o-Xylene	1.8	U
179601-23-1	m,p-Xylene	1.8	U
100-42-5	Styrene	1.8	U
75-25-2	Bromoform	1.8	U
98-82-8	Isopropylbenzene	1.8	U
79-34-5	1,1,2,2-Tetrachloroethane	1.8	U
541-73-1	1,3-Dichlorobenzene	1.8	U
106-46-7	1,4-Dichlorobenzene	1.8	U
95-50-1	1,2-Dichlorobenzene	1.8	U
96-12-8	1,2-Dibromo-3-chloropropane	1.8	U
120-82-1	1,2,4-Trichlorobenzene	9.0	U
87-61-6	1,2,3-Trichlorobenzene	9.0	U
87-68-3	Hexachlorobutadiene	1.8	U
67-72-1	Hexachloroethane	3.6	U
91-20-3	Naphthalene	1.1	J Q
630-20-6	1,1,1,2-Tetrachloroethane	1.8	U
96-18-4	1,2,3-Trichloropropane	1.8	U

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BREMERTON-012629

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K75

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.03

Sample wt/vol: 3.500 (g/mL) G Lab File ID: B16916

Level: (TRACE or LOW/MED) LOW Date Received: 06/06/2008

% Moisture: not dec. 21 Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.65	7.9	JN
02	000075-18-3	Dimethyl sulfide	3.52	43	NJ
03		Unknown-02	6.73	2.8	JN
04		Unknown-03	11.14	9.6	JN
05	002443-46-1	Bicyclo[4.4.1]undeca-1,3,5,7,	23.54	2.3	NJ
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	2.4	JN

[1] EPA-designated Registry Number.

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K75

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.03

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G1318

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	25	U
108-95-2	Phenol	25	U
111-44-4	Bis(2-chloroethyl)ether	25	U
95-57-8	2-Chlorophenol	25	U
95-48-7	2-Methylphenol	25	U
108-60-1	2,2'-Oxybis(1-chloropropane)	25	U
98-86-2	Acetophenone	25	U
106-44-5	4-Methylphenol	17	J Q
621-64-7	N-Nitroso-di-n-propylamine	25	U
67-72-1	Hexachloroethane	25	U
98-95-3	Nitrobenzene	25	U
78-59-1	Isophorone	25	U
88-75-5	2-Nitrophenol	25	U
105-67-9	2,4-Dimethylphenol	25	U
111-91-1	Bis(2-chloroethoxy)methane	25	U
120-83-2	2,4-Dichlorophenol	25	U
91-20-3	Naphthalene	530	E → Report from J8K75DL (Full S.)
106-47-8	4-Chloroaniline	25	U
87-68-3	Hexachlorobutadiene	25	U
105-60-2	Caprolactam	25	U
59-50-7	4-Chloro-3-methylphenol	25	U
91-57-6	2-Methylnaphthalene	390	
77-47-4	Hexachlorocyclopentadiene	63	UJ
88-06-2	2,4,6-Trichlorophenol	25	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	71	
91-58-7	2-Chloronaphthalene	25	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	25	U
606-20-2	2,6-Dinitrotoluene	25	U
208-96-8	Acenaphthylene	1800	E → "
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	73	
51-28-5	2,4-Dinitrophenol	130	UJ
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	58	
121-14-2	2,4-Dinitrotoluene	25	U

BREMERTON-012631

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K75

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.03

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G1318

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
84-66-2	Diethylphthalate	25	U	
86-73-7	Fluorene	630	E	→ Report from J8K75DL (Full S.)
7005-72-3	4-Chlorophenyl-phenylether	25	U	
100-01-6	4-Nitroaniline	50	U	
534-52-1	4,6-Dinitro-2-methylphenol	50	U	
86-30-6	N-Nitrosodiphenylamine 1	25	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	25	U	
101-55-3	4-Bromophenyl-phenylether	25	U	
118-74-1	Hexachlorobenzene	25	U	
1912-24-9	Atrazine	25	U	
87-86-5	Pentachlorophenol	25	UJ	
85-01-8	Phenanthrene	2100	E	→ Report from J8K75 (Full S.)
120-12-7	Anthracene	1200	E	→ Report from J8K7 (Full S.)
86-74-8	Carbazole	100		
84-74-2	Di-n-butylphthalate	25	U	
206-44-0	Fluoranthene	4100	E	→ Report from J8K75D (Full S
129-00-0	Pyrene	1700	EJ	→ "
85-68-7	Butylbenzylphthalate	25	U	
91-94-1	3,3'-Dichlorobenzidine	25	U	
56-55-3	Benzo(a)anthracene	1300	EJ	→ "
218-01-9	Chrysene	800	EJ	→ "
117-81-7	Bis(2-ethylhexyl)phthalate	25	U	
117-84-0	Di-n-octylphthalate	25	U	
205-99-2	Benzo(b)fluoranthene	1500	EJ	→ "
207-08-9	Benzo(k)fluoranthene	620	EJ	→ "
50-32-8	Benzo(a)pyrene	3500	EJ	→ "
193-39-5	Indeno(1,2,3-cd)pyrene	1700	EJ	→ "
53-70-3	Dibenzo(a,h)anthracene	690	EJ	→ Report from J8K75 (Full
191-24-2	Benzo(g,h,i)perylene	1500	EJ	→ Report from J8K75 DL (Full S.
58-90-2	2,3,4,6-Tetrachlorophenol	25	U	
92-87-5	Benzidine	25	U	
95-50-1	1,2-Dichlorobenzene	25	U	
106-46-7	1,4-Dichlorobenzene	23	JQ	
541-73-1	1,3-Dichlorobenzene	25	U	
62-75-9	N-Nitrosodimethylamine	25	U	
95-63-6	1,2,4-Trimethylbenzene	25	U	
108-67-8	1,3,5-Trimethylbenzene	25	U	

1 Cannot be separated from Diphenylamine

BREMERTON-012632

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K75

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.03

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G1318

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.04	170	JN
02		Unknown-02	2.16	94	J
03		Unknown-03	2.96	180	J
04		Unknown-04	3.07	130	J
05	000694-87-1	Bicyclo[4.2.0]octa-1,3,5-trie	3.67	160	NJ
06	000622-97-9	Benzene, 1-ethenyl-4-methyl-	5.30	110	NJ
07		Unknown-05	5.36	82	JN
08	000673-32-5	Benzene, 1-propynyl-	6.14	91	NJ
09	001195-32-0	Benzene, 1-methyl-4-(1-methyl	6.93	69	NJ
10		Unknown-06	7.44	110	JN
11		Unknown-07	7.94	120	J
12		Unknown-08	8.44	110	J
13		Unknown-09	9.52	63	J
14		Unknown-10	9.68	85	J
15	004453-90-1	1,4-Methanonaphthalene, 1,4-d	9.85	91	NJ
16		Unknown-11	9.91	240	JN
17		Unknown-12	10.11	290	JN
18	000090-12-0	Naphthalene, 1-methyl-	10.24	360	NJ
19	000582-16-1	Naphthalene, 2,7-dimethyl-	11.47	97	NJ
20	000575-41-7	Naphthalene, 1,3-dimethyl-	11.64	100	NJ
21	000827-54-3	Naphthalene, 2-ethenyl-	11.75	160	NJ
22	000581-40-8	Naphthalene, 2,3-dimethyl-	11.85	65	NJ
23	002131-42-2	Naphthalene, 1,4,6-trimethyl-	12.66	100	NJ
24		Unknown-13	12.72	83	JN
25		Unknown-14	12.75	200	JN
26	1000187-78-5	3-(2-Methyl-propenyl)-1H-inde	12.79	220	NJ
27		Unknown-15	12.95	230	JN
28		Unknown-16	13.16	100	JN
29	000086-73-7	Fluorene	13.23	220	NJ
30		Unknown-17	15.02	110	JN
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/16/08

8686

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K75DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.03DL

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G1337

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 5.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	130	U
108-95-2	Phenol	130	U
111-44-4	Bis(2-chloroethyl)ether	130	U
95-57-8	2-Chlorophenol	130	U
95-48-7	2-Methylphenol	130	U
108-60-1	2,2'-Oxybis(1-chloropropane)	130	U
98-86-2	Acetophenone	130	U
106-44-5	4-Methylphenol	130	U
621-64-7	N-Nitroso-di-n-propylamine	130	U
67-72-1	Hexachloroethane	130	U
98-95-3	Nitrobenzene	130	U
78-59-1	Isophorone	130	U
88-75-5	2-Nitrophenol	130	U
105-67-9	2,4-Dimethylphenol	130	U
111-91-1	Bis(2-chloroethoxy)methane	130	U
120-83-2	2,4-Dichlorophenol	130	U
91-20-3	Naphthalene	490	Ø → Report
106-47-8	4-Chloroaniline	130	U
87-68-3	Hexachlorobutadiene	130	U
105-60-2	Caprolactam	130	U
59-50-7	4-Chloro-3-methylphenol	130	U
91-57-6	2-Methylnaphthalene	350	D
77-47-4	Hexachlorocyclopentadiene	320	UJ
88-06-2	2,4,6-Trichlorophenol	130	U
95-95-4	2,4,5-Trichlorophenol	130	U
92-52-4	1,1'-Biphenyl	68	DJ
91-58-7	2-Chloronaphthalene	130	U
88-74-4	2-Nitroaniline	250	U
131-11-3	Dimethylphthalate	130	U
606-20-2	2,6-Dinitrotoluene	130	U
208-96-8	Acenaphthylene	1500	Ø → "
99-09-2	3-Nitroaniline	250	U
83-32-9	Acenaphthene	88	DJ
51-28-5	2,4-Dinitrophenol	630	UJ
100-02-7	4-Nitrophenol	250	UJ
132-64-9	Dibenzofuran	130	U
121-14-2	2,4-Dinitrotoluene	130	U

0748

9/12/08

BREMERTON-012634

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K75DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.03DL

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G1337

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 5.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
84-66-2	Diethylphthalate	130	U	
86-73-7	Fluorene	450	~~D~~	→ Report
7005-72-3	4-Chlorophenyl-phenylether	130	U	
100-01-6	4-Nitroaniline	250	U	
534-52-1	4,6-Dinitro-2-methylphenol	250	U	
86-30-6	N-Nitrosodiphenylamine 1	130	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	130	U	
101-55-3	4-Bromophenyl-phenylether	130	U	
118-74-1	Hexachlorobenzene	130	U	
1912-24-9	Atrazine	130	U	
87-86-5	Pentachlorophenol	130	UJ	
85-01-8	Phenanthrene	4100	DE	→ Report from J8K75L (Full
120-12-7	Anthracene	1300	D	→ Report
86-74-8	Carbazole	94	DJ	
84-74-2	Di-n-butylphthalate	130	U	
206-44-0	Fluoranthene	10000	DE	→ Report from J8K75L (Full
129-00-0	Pyrene	8300	DE	→ "
85-68-7	Butylbenzylphthalate	130	U	
91-94-1	3,3'-Dichlorobenzidine	130	U	
56-55-3	Benzo(a)anthracene	5900	DE	→ "
218-01-9	Chrysene	6000	DE	→ "
117-81-7	Bis(2-ethylhexyl)phthalate	130	U	
117-84-0	Di-n-octylphthalate	130	U	
205-99-2	Benzo(b)fluoranthene	4300	DE	→ "
207-08-9	Benzo(k)fluoranthene	3700	DE	→ "
50-32-8	Benzo(a)pyrene	6100	DE	→ "
193-39-5	Indeno(1,2,3-cd)pyrene	3200	DE	→ "
53-70-3	Dibenzo(a,h)anthracene	920	~~D~~	→ Report
191-24-2	Benzo(g,h,i)perylene	3000	DE	→ Report from J8K75L (Full S.)
58-90-2	2,3,4,6-Tetrachlorophenol	130	U	
92-87-5	Benzidine	130	U	
95-50-1	1,2-Dichlorobenzene	130	U	
106-46-7	1,4-Dichlorobenzene	130	U	
541-73-1	1,3-Dichlorobenzene	130	U	
62-75-9	N-Nitrosodimethylamine	130	U	
95-63-6	1,2,4-Trimethylbenzene	130	U	
108-67-8	1,3,5-Trimethylbenzene	130	U	

1 Cannot be separated from Diphenylamine

BREMERTON-012635

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: J8K75DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.03DL

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G1337

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 5.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	18.09	670	DJ
02		Unknown-02	18.19	1500	DJ
03		Unknown-03	18.26	670	DJ
04		Unknown-04	18.31	550	DJ
05	000192-97-2	Benzo[e]pyrene	18.52	1200	DNJ
06		Unknown-05	18.63	530	DJ
07		Unknown-06	18.71	810	DJ
08	000198-55-0	Perylene	18.78	2400	DNJ
09	056053-17-9	Curan, 16,17,19,20-tetradehyd	19.09	870	DNJ
10		Unknown-07	19.18	980	DJ
11		Unknown-08	19.26	1200	DJ
12		Unknown-09	19.42	610	DJ
13		Unknown-10	19.57	990	DJ
14	000213-46-7	1,2:7,8-Dibenzophenanthrene	19.62	500	DNJ
15		Unknown-11	19.70	760	DJ
16		Unknown-12	19.89	610	DJ
17		Unknown-13	20.14	890	DJ
18		Unknown-14	20.34	730	DJ
19		Unknown-15	20.45	600	DJ
20		Unknown-16	20.53	830	DJ
21		Unknown-17	20.73	1200	DJ
22	000214-17-5	Benzo[b]chrysene	21.18	860	DNJ
23	000215-58-7	Benzo[b]triphenylene	21.28	910	DNJ
24		Unknown-18	21.41	570	DJ
25	000191-26-4	Dibenzo[def,mno]chrysene	21.88	870	DNJ
26	316133-55-8	Benzonitrile, 2-(2-hydroxy-3,	22.43	660	DNJ
27		Unknown-19	22.55	500	DJ
28		Unknown-20	22.72	560	DJ
29		Unknown-21	23.03	550	DJ
30	005385-75-1	Dibenz(a,e)aceanthrylene	24.88	670	DNJ
	E9667962	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/16/08

0750

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K75DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.03DL2

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G1340

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 50.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	1300	U
108-95-2	Phenol	1300	U
111-44-4	Bis(2-chloroethyl)ether	1300	U
95-57-8	2-Chlorophenol	1300	U
95-48-7	2-Methylphenol	1300	U
108-60-1	2,2'-Oxybis(1-chloropropane)	1300	U
98-86-2	Acetophenone	1300	U
106-44-5	4-Methylphenol	1300	U
621-64-7	N-Nitroso-di-n-propylamine	1300	U
67-72-1	Hexachloroethane	1300	U
98-95-3	Nitrobenzene	1300	U
78-59-1	Isophorone	1300	U
88-75-5	2-Nitrophenol	1300	U
105-67-9	2,4-Dimethylphenol	1300	U
111-91-1	Bis(2-chloroethoxy)methane	1300	U
120-83-2	2,4-Dichlorophenol	1300	U
91-20-3	Naphthalene	1300	U
106-47-8	4-Chloroaniline	1300	U
87-68-3	Hexachlorobutadiene	1300	U
105-60-2	Caprolactam	1300	U
59-50-7	4-Chloro-3-methylphenol	1300	U
91-57-6	2-Methylnaphthalene	1300	U
77-47-4	Hexachlorocyclopentadiene	3200	UJ
88-06-2	2,4,6-Trichlorophenol	1300	U
95-95-4	2,4,5-Trichlorophenol	1300	U
92-52-4	1,1'-Biphenyl	1300	U
91-58-7	2-Chloronaphthalene	1300	U
88-74-4	2-Nitroaniline	2500	U
131-11-3	Dimethylphthalate	1300	U
606-20-2	2,6-Dinitrotoluene	1300	U
208-96-8	Acenaphthylene	1000	DJ
99-09-2	3-Nitroaniline	2500	U
83-32-9	Acenaphthene	1300	U
51-28-5	2,4-Dinitrophenol	6300	UJ
100-02-7	4-Nitrophenol	2500	UJ
132-64-9	Dibenzofuran	1300	U
121-14-2	2,4-Dinitrotoluene	1300	U

BREMERTON-012637

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K75DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.03DL2

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G1340

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 50.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	1300	U
86-73-7	Fluorene	1300	U
7005-72-3	4-Chlorophenyl-phenylether	1300	U
100-01-6	4-Nitroaniline	2500	U
534-52-1	4,6-Dinitro-2-methylphenol	2500	U
86-30-6	N-Nitrosodiphenylamine 1	1300	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1300	U
101-55-3	4-Bromophenyl-phenylether	1300	U
118-74-1	Hexachlorobenzene	1300	U
1912-24-9	Atrazine	1300	U
87-86-5	Pentachlorophenol	1300	UJ
85-01-8	Phenanthrene	1900	Ø → Report
120-12-7	Anthracene	830	DJ
86-74-8	Carbazole	1300	U
84-74-2	Di-n-butylphthalate	1300	U
206-44-0	Fluoranthene	6000	Ø → "
129-00-0	Pyrene	7100	Ø → "
85-68-7	Butylbenzylphthalate	1300	U
91-94-1	3,3'-Dichlorobenzidine	1300	U
56-55-3	Benzo(a)anthracene	3200	Ø → "
218-01-9	Chrysene	3500	Ø → "
117-81-7	Bis(2-ethylhexyl)phthalate	1300	U
117-84-0	Di-n-octylphthalate	1300	U
205-99-2	Benzo(b)fluoranthene	2000	Ø → "
207-08-9	Benzo(k)fluoranthene	2600	Ø → "
50-32-8	Benzo(a)pyrene	3700	Ø → "
193-39-5	Indeno(1,2,3-cd)pyrene	2500	Ø → "
53-70-3	Dibenzo(a,h)anthracene	720	DJ
191-24-2	Benzo(g,h,i)perylene	2700	Ø → "
58-90-2	2,3,4,6-Tetrachlorophenol	1300	U
92-87-5	Benzidine	1300	U
95-50-1	1,2-Dichlorobenzene	1300	U
106-46-7	1,4-Dichlorobenzene	1300	U
541-73-1	1,3-Dichlorobenzene	1300	U
62-75-9	N-Nitrosodimethylamine	1300	U
95-63-6	1,2,4-Trimethylbenzene	1300	U
108-67-8	1,3,5-Trimethylbenzene	1300	U

1 Cannot be separated from Diphenylamine

BREMERTON-012638

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: J8K75DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.03DL2

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G1340

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 50.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	15.00	3100	DJ
02	002381-21-7	Pyrene, 1-methyl-	16.22	2500	DNJ
03	055215-17-3	1,1'-Biphenyl, 2,2',3,4,6-Pen	16.66	2200	DNJ
04		Unknown-02	16.76	2800	DJ
05		Unknown-03	16.86	2900	DJ
06		Unknown-04	17.28	7800	DJ
07	000189-55-9	3,4:9,10-Dibenzopyrene	17.38	7300	DNJ
08		Unknown-05	17.54	2500	DJ
09		Unknown-06	17.63	2900	DJ
10		Unknown-07	17.70	3100	DJ
11		Unknown-08	17.84	2800	DJ
12		Unknown-09	18.51	2000	DJ
13	000192-97-2	Benzo[e]pyrene	18.75	2500	DNJ
14	055836-77-6	16,16,O-Trimethyl-11.beta.-me	21.24	2200	DNJ
15		Unknown-10	21.84	2000	DJ
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

9/16/08

6809

Do NOT REPORT

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K75RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.03RE

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G1326

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	25	U
108-95-2	Phenol	25	U
111-44-4	Bis(2-chloroethyl)ether	25	U
95-57-8	2-Chlorophenol	25	U
95-48-7	2-Methylphenol	25	U
108-60-1	2,2'-Oxybis(1-chloropropane)	25	U
98-86-2	Acetophenone	25	U
106-44-5	4-Methylphenol	18	J
621-64-7	N-Nitroso-di-n-propylamine	25	U
67-72-1	Hexachloroethane	25	U
98-95-3	Nitrobenzene	25	U
78-59-1	Isophorone	25	U
88-75-5	2-Nitrophenol	25	U
105-67-9	2,4-Dimethylphenol	25	U
111-91-1	Bis(2-chloroethoxy)methane	25	U
120-83-2	2,4-Dichlorophenol	25	U
91-20-3	Naphthalene	530	E
106-47-8	4-Chloroaniline	25	U
87-68-3	Hexachlorobutadiene	25	U
105-60-2	Caprolactam	25	U
59-50-7	4-Chloro-3-methylphenol	25	U
91-57-6	2-Methylnaphthalene	410	E
77-47-4	Hexachlorocyclopentadiene	63	UJ
88-06-2	2,4,6-Trichlorophenol	25	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	70	
91-58-7	2-Chloronaphthalene	25	U
88-74-4	2-Nitroaniline	50	UJ
131-11-3	Dimethylphthalate	25	U
606-20-2	2,6-Dinitrotoluene	25	U
208-96-8	Acenaphthylene	1900	E
99-09-2	3-Nitroaniline	50	UJ
83-32-9	Acenaphthene	73	
51-28-5	2,4-Dinitrophenol	130	UJ
100-02-7	4-Nitrophenol	50	UJ
132-64-9	Dibenzofuran	59	
121-14-2	2,4-Dinitrotoluene	25	U

BREMERTON-012640

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K75RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.03RE

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G1326

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	25	U
86-73-7	Fluorene	530	E
7005-72-3	4-Chlorophenyl-phenylether	25	U
100-01-6	4-Nitroaniline	50	UJ
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine 1	25	U
95-94-3	1,2,4,5-Tetrachlorobenzene	25	U
101-55-3	4-Bromophenyl-phenylether	25	U
118-74-1	Hexachlorobenzene	25	U
1912-24-9	Atrazine	25	U
87-86-5	Pentachlorophenol	25	UJ
85-01-8	Phenanthrene	2000	E
120-12-7	Anthracene	1100	E
86-74-8	Carbazole	91	
84-74-2	Di-n-butylphthalate	25	U
206-44-0	Fluoranthene	4400	E
129-00-0	Pyrene	1600	E J
85-68-7	Butylbenzylphthalate	25	U
91-94-1	3,3'-Dichlorobenzidine	25	U
56-55-3	Benzo(a)anthracene	930	E J
218-01-9	Chrysene	880	E J
117-81-7	Bis(2-ethylhexyl)phthalate	25	U
117-84-0	Di-n-octylphthalate	25	U
205-99-2	Benzo(b)fluoranthene	2100	E J
207-08-9	Benzo(k)fluoranthene	2100	E J
50-32-8	Benzo(a)pyrene	6000	E J
193-39-5	Indeno(1,2,3-cd)pyrene	2400	E J
53-70-3	Dibenzo(a,h)anthracene	910	E J
191-24-2	Benzo(g,h,i)perylene	1800	E J
58-90-2	2,3,4,6-Tetrachlorophenol	25	U
92-87-5	Benzidine	25	U
95-50-1	1,2-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	22	J
541-73-1	1,3-Dichlorobenzene	25	U
62-75-9	N-Nitrosodimethylamine	25	U
95-63-6	1,2,4-Trimethylbenzene	25	U
108-67-8	1,3,5-Trimethylbenzene	25	U

1 Cannot be separated from Diphenylamine

BREMERTON-012641

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K75RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.03RE

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G1326

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.05	160	J
02		Unknown-02	2.17	83	J
03		Unknown-03	2.97	160	J
04		Unknown-04	3.08	130	J
05	000100-80-1	Benzene, 1-ethenyl-3-methyl-	5.32	140	NJ
06		Unknown-05	5.37	110	J
07	000766-47-2	Benzene,1-ethynyl-2-methyl-	6.16	120	NJ
08	002039-89-6	Benzene, 2-ethenyl-1,4-dimeth	6.95	81	NJ
09		Unknown-06	7.27	61	J
10		Unknown-07	7.46	170	J
11	1000222-12-0	4-Phenylbut-3-ene-1-yne	7.96	88	NJ
12		Unknown-08	8.46	110	J
13		Unknown-09	8.97	83	J
14		Unknown-10	9.06	74	J
15		Unknown-11	9.54	58	J
16		Unknown-12	9.70	80	J
17	000264-09-5	Benzocycloheptatriene	9.93	390	NJ
18		Unknown-13	10.13	300	J
19	000091-57-6	Naphthalene, 2-methyl-	10.27	350	NJ
20	000582-16-1	Naphthalene, 2,7-dimethyl-	11.49	74	NJ
21	000575-41-7	Naphthalene, 1,3-dimethyl-	11.66	77	NJ
22	000827-54-3	Naphthalene, 2-ethenyl-	11.77	130	NJ
23	1000187-78-5	3-(2-Methyl-propenyl)-1H-inde	12.45	59	NJ
24	002245-38-7	Naphthalene, 1,6,7-trimethyl-	12.64	130	NJ
25	002131-42-2	Naphthalene, 1,4,6-trimethyl-	12.68	96	NJ
26		Unknown-14	12.77	130	J
27		Unknown-15	12.82	130	J
28		Unknown-16	13.13	77	J
29		Unknown-17	15.04	110	J
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/16/08

0961

BREMERTON-012642

DO NOT REPORT

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K75

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.03

Sample wt/vol: 100.4 (g/mL) G Lab File ID: F26783

Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	430	E
91-57-6	2-Methylnaphthalene	470	E
208-96-8	Acenaphthylene	3800	E
83-32-9	Acenaphthene	110	E
86-73-7	Fluorene	570	E
87-86-5	Pentachlorophenol	54	E
85-01-8	Phenanthrene	6600	E
120-12-7	Anthracene	3000	E
206-44-0	Fluoranthene	16000	E
129-00-0	Pyrene	14000	E
56-55-3	Benzo(a)anthracene	11000	E
218-01-9	Chrysene	9600	E
205-99-2	Benzo(b)fluoranthene	4300	E
207-08-9	Benzo(k)fluoranthene	1500	E
50-32-8	Benzo(a)pyrene	6200	E
193-39-5	Indeno(1,2,3-cd)pyrene	2000	E
53-70-3	Dibenzo(a,h)anthracene	1200	E
191-24-2	Benzo(g,h,i)perylene	1500	E

[1] Cannot be separated from Diphenylamine

9/16/08

DO NOT REPORT

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K75DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.03DL

Sample wt/vol: 100.4 (g/mL) G Lab File ID: F26810

Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 10.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	710	DE
91-57-6	2-Methylnaphthalene	490	DE
208-96-8	Acenaphthylene	3200	DE
83-32-9	Acenaphthene	180	DE
86-73-7	Fluorene	770	DE
87-86-5	Pentachlorophenol	31	D
85-01-8	Phenanthrene	4100	DE
120-12-7	Anthracene	2100	DE
206-44-0	Fluoranthene	10000	DE
129-00-0	Pyrene	9400	DE
56-55-3	Benzo(a)anthracene	6200	DE
218-01-9	Chrysene	7700	DE
205-99-2	Benzo(b)fluoranthene	2400	DE
207-08-9	Benzo(k)fluoranthene	5400	DE
50-32-8	Benzo(a)pyrene	7100	DE
193-39-5	Indeno(1,2,3-cd)pyrene	2900	DE
53-70-3	Dibenzo(a,h)anthracene	1700	DE
191-24-2	Benzo(g,h,i)perylene	2700	DE

' Cannot be separated from Diphenylamine

9/16/08

SOM01.2 (6/2007)

1799

Do NOT REPORT

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K75RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.03RE

Sample wt/vol: 100.4 (g/mL) G Lab File ID: F26788

Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	590	E
91-57-6	2-Methylnaphthalene	610	E
208-96-8	Acenaphthylene	3800	E
83-32-9	Acenaphthene	110	E
86-73-7	Fluorene	570	E
87-86-5	Pentachlorophenol	50	E
85-01-8	Phenanthrene	6600	E
120-12-7	Anthracene	3000	E
206-44-0	Fluoranthene	20000	E
129-00-0	Pyrene	54000	E
56-55-3	Benzo(a)anthracene	37000	E
218-01-9	Chrysene	31000	E
205-99-2	Benzo(b)fluoranthene	4000	E
207-08-9	Benzo(k)fluoranthene	1900	E
50-32-8	Benzo(a)pyrene	7800	E
193-39-5	Indeno(1,2,3-cd)pyrene	2400	E
53-70-3	Dibenzo(a,h)anthracene	1200	E
191-24-2	Benzo(g,h,i)perylene	1800	E

[1] Cannot be separated from Diphenylamine

9/16/08

BREMERTON-012645

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K76

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.04

Sample wt/vol: 4.200 (g/mL) G Lab File ID: B16921

Level: (TRACE/LOW/MED) LOW Date Received: 06/06/2008

% Moisture: not dec. 24 Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.6	U
74-87-3	Chloromethane	1.6	U
75-01-4	Vinyl chloride	1.6	U
74-83-9	Bromomethane	1.6	U
75-00-3	Chloroethane	1.6	U
75-69-4	Trichlorofluoromethane	1.6	UJ
75-35-4	1,1-Dichloroethene	1.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.6	U
67-64-1	Acetone	28	
75-15-0	Carbon disulfide	1.6	U
79-20-9	Methyl acetate	1.6	U
75-09-2	Methylene chloride	1.6 ~~0.78~~	UJ
156-60-5	trans-1,2-Dichloroethene	1.6	U
1634-04-4	Methyl tert-butyl ether	1.6	U
75-34-3	1,1-Dichloroethane	1.6	U
156-59-2	cis-1,2-Dichloroethene	1.6	U
78-93-3	2-Butanone	7.8	U
74-97-5	Bromochloromethane	1.6	U
67-66-3	Chloroform	1.6	U
71-55-6	1,1,1-Trichloroethane	1.6	U
110-82-7	Cyclohexane	1.6	U
56-23-5	Carbon tetrachloride	1.6	U
71-43-2	Benzene	1.5	J Q
107-06-2	1,2-Dichloroethane	1.6	U
123-91-1	1,4-Dioxane	160	U
79-01-6	Trichloroethene	1.6	U
108-87-2	Methylcyclohexane	1.6	U
78-87-5	1,2-Dichloropropane	1.6	U
75-27-4	Bromodichloromethane	1.6	U
10061-01-5	cis-1,3-Dichloropropene	1.6	U
108-10-1	4-Methyl-2-pentanone	7.8	U
108-88-3	Toluene	1.6	U
10061-02-6	trans-1,3-Dichloropropene	1.6	U
79-00-5	1,1,2-Trichloroethane	1.6	U

9/16/08

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K76

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.04

Sample wt/vol: 4.200 (g/mL) G Lab File ID: B16921

Level: (TRACE/LOW/MED) LOW Date Received: 06/06/2008

% Moisture: not dec. 24 Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.6	U
591-78-6	2-Hexanone	7.8	U
124-48-1	Dibromochloromethane	1.6	U
106-93-4	1,2-Dibromoethane	1.6	U
108-90-7	Chlorobenzene	1.6	U
100-41-4	Ethylbenzene	1.6	U
95-47-6	o-Xylene	1.6	U
179601-23-1	m,p-Xylene	1.6	U
100-42-5	Styrene	1.6	U
75-25-2	Bromoform	1.6	U
98-82-8	Isopropylbenzene	1.6	U
79-34-5	1,1,2,2-Tetrachloroethane	1.6	U
541-73-1	1,3-Dichlorobenzene	1.6	U
106-46-7	1,4-Dichlorobenzene	1.6	U
95-50-1	1,2-Dichlorobenzene	1.6	U
96-12-8	1,2-Dibromo-3-chloropropane	1.6	U
120-82-1	1,2,4-Trichlorobenzene	7.8	U
87-61-6	1,2,3-Trichlorobenzene	7.8	U
87-68-3	Hexachlorobutadiene	1.6	U
67-72-1	Hexachloroethane	3.1	U
91-20-3	Naphthalene	0.95	J
630-20-6	1,1,1,2-Tetrachloroethane	1.6	U
96-18-4	1,2,3-Trichloropropane	1.6	U

6/16/08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K76

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.04

Sample wt/vol: 4.200 (g/mL) G Lab File ID: B16921

Level: (TRACE or LOW/MED) LOW Date Received: 06/06/2008

% Moisture: not dec. 24 Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000075-18-3	Dimethyl sulfide	3.52	5.1	NJ
02		Unknown-01	11.13	8.3	JN
03	001005-64-7	Benzene, 1-butenyl-, (E)-	18.36	4.2	NJ
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A		

1 EPA-designated Registry Number.

9/16/08

0135

BREMERTON-012648

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K76

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.04

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G1319

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
100-52-7	Benzaldehyde	38		
108-95-2	Phenol	26	U	
111-44-4	Bis(2-chloroethyl)ether	26	U	
95-57-8	2-Chlorophenol	26	U	
95-48-7	2-Methylphenol	26	U	
108-60-1	2,2'-Oxybis(1-chloropropane)	26	U	
98-86-2	Acetophenone	26	U	
106-44-5	4-Methylphenol	17	J	
621-64-7	N-Nitroso-di-n-propylamine	26	U	
67-72-1	Hexachloroethane	26	U	
98-95-3	Nitrobenzene	26	U	
78-59-1	Isophorone	26	U	
88-75-5	2-Nitrophenol	26	U	
105-67-9	2,4-Dimethylphenol	26	U	
111-91-1	Bis(2-chloroethoxy)methane	26	U	
120-83-2	2,4-Dichlorophenol	26	U	
91-20-3	Naphthalene	640	E	→ Report from J8K76DL (Full S.)
106-47-8	4-Chloroaniline	26	U	
87-68-3	Hexachlorobutadiene	26	U	
105-60-2	Caprolactam	26	U	
59-50-7	4-Chloro-3-methylphenol	26	U	
91-57-6	2-Methylnaphthalene	430	E	→ "
77-47-4	Hexachlorocyclopentadiene	65	UJ	
88-06-2	2,4,6-Trichlorophenol	26	U	
95-95-4	2,4,5-Trichlorophenol	26	U	
92-52-4	1,1'-Biphenyl	90		
91-58-7	2-Chloronaphthalene	26	U	
88-74-4	2-Nitroaniline	52	U	
131-11-3	Dimethylphthalate	26	U	
606-20-2	2,6-Dinitrotoluene	26	U	
208-96-8	Acenaphthylene	1800	E	→ "
99-09-2	3-Nitroaniline	52	U	
83-32-9	Acenaphthene	240		
51-28-5	2,4-Dinitrophenol	130	UJ	
100-02-7	4-Nitrophenol	52	U	
132-64-9	Dibenzofuran	71		
121-14-2	2,4-Dinitrotoluene	26	U	

BREMERTON-012649

1E - FORM I SV-2 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K76

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.04

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G1319

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	26	U
86-73-7	Fluorene	770	E
7005-72-3	4-Chlorophenyl-phenylether	26	U
100-01-6	4-Nitroaniline	52	U
534-52-1	4,6-Dinitro-2-methylphenol	52	U
86-30-6	N-Nitrosodiphenylamine 1	26	U
95-94-3	1,2,4,5-Tetrachlorobenzene	26	U
101-55-3	4-Bromophenyl-phenylether	26	U
118-74-1	Hexachlorobenzene	26	U
1912-24-9	Atrazine	26	U
87-86-5	Pentachlorophenol	26	UJ
85-01-8	Phenanthrene	2000	E
120-12-7	Anthracene	1100	E
86-74-8	Carbazole	110	
84-74-2	Di-n-butylphthalate	26	U
206-44-0	Fluoranthene	3700	E
129-00-0	Pyrene	1300	EJ
85-68-7	Butylbenzylphthalate	26	U
91-94-1	3,3'-Dichlorobenzidine	26	U
56-55-3	Benzo(a)anthracene	920	EJ
218-01-9	Chrysene	580	EJ
117-81-7	Bis(2-ethylhexyl)phthalate	26	U
117-84-0	Di-n-octylphthalate	26	U
205-99-2	Benzo(b)fluoranthene	3100	EJ
207-08-9	Benzo(k)fluoranthene	1300	EJ
50-32-8	Benzo(a)pyrene	7100	EJ
193-39-5	Indeno(1,2,3-cd)pyrene	3400	EJ
53-70-3	Dibenzo(a,h)anthracene	1300	EJ
191-24-2	Benzo(g,h,i)perylene	3000	EJ
58-90-2	2,3,4,6-Tetrachlorophenol	26	U
92-87-5	Benzidine	26	U
95-50-1	1,2-Dichlorobenzene	26	U
106-46-7	1,4-Dichlorobenzene	21	JQ
541-73-1	1,3-Dichlorobenzene	26	U
62-75-9	N-Nitrosodimethylamine	26	U
95-63-6	1,2,4-Trimethylbenzene	26	U
108-67-8	1,3,5-Trimethylbenzene	26	U

Report from J8K76DL (Full S.)

Report from J8K76DL (Full S.)

Report from J8K76DL (Full S.)

Report from J8K76DL2 (Full

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Report from J8K76DL (Full S

Report from J8K76DL (Full S

Report from J8K76DL (Full S

1 Cannot be separated from Diphenylamine

BREMERTON-012650

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K76

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.04

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G1319

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.05	120	JN
02		Unknown-02	2.17	86	J
03		Unknown-03	2.96	180	J
04		Unknown-04	3.07	130	J
05	000694-87-1	Bicyclo[4.2.0]octa-1,3,5-trie	3.68	120	NJ
06	000622-97-9	Benzene, 1-ethenyl-4-methyl-	5.31	89	NJ
07		Unknown-05	5.36	69	JN
08	000095-13-6	Indene	6.15	91	NJ
09		Unknown-06	7.26	75	JN
10		Unknown-07	7.45	77	J
11		Unknown-08	7.95	89	J
12		Unknown-09	8.45	120	J
13	000271-17-0	Cyclopenta[b]thiapyran	8.52	93	NJ
14		Unknown-10	9.45	68	JN
15		Unknown-11	9.58	65	JN
16	000264-09-5	Benzocycloheptatriene	9.92	360	NJ
17		Unknown-12	10.12	350	JN
18	000090-12-0	Naphthalene, 1-methyl-	10.25	470	NJ
19	000582-16-1	Naphthalene, 2,7-dimethyl-	11.48	110	NJ
20	000582-16-1	Naphthalene, 2,7-dimethyl-	11.65	120	NJ
21	000827-54-3	Naphthalene, 2-ethenyl-	11.76	160	NJ
22	000575-41-7	Naphthalene, 1,3-dimethyl-	11.86	80	NJ
23		Unknown-13	12.44	88	JN
24	002245-38-7	Naphthalene, 1,6,7-trimethyl-	12.63	88	NJ
25	000829-26-5	Naphthalene, 2,3,6-trimethyl-	12.67	120	NJ
26	002131-42-2	Naphthalene, 1,4,6-trimethyl-	12.82	270	NJ
27		Unknown-14	12.96	300	JN
28	001855-47-6	1-Isopropenylnaphthalene	13.13	130	NJ
29		Unknown-15	13.24	270	JN
30		Unknown-16	15.03	98	JN
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/16/08

BREMERTON-012651

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K76DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.04DL

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G1338

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 10.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	260	U
108-95-2	Phenol	260	U
111-44-4	Bis(2-chloroethyl)ether	260	U
95-57-8	2-Chlorophenol	260	U
95-48-7	2-Methylphenol	260	U
108-60-1	2,2'-Oxybis(1-chloropropane)	260	U
98-86-2	Acetophenone	260	U
106-44-5	4-Methylphenol	260	U
621-64-7	N-Nitroso-di-n-propylamine	260	U
67-72-1	Hexachloroethane	260	U
98-95-3	Nitrobenzene	260	U
78-59-1	Isophorone	260	U
88-75-5	2-Nitrophenol	260	U
105-67-9	2,4-Dimethylphenol	260	U
111-91-1	Bis(2-chloroethoxy)methane	260	U
120-83-2	2,4-Dichlorophenol	260	U
91-20-3	Naphthalene	560	Ø → Report
106-47-8	4-Chloroaniline	260	U
87-68-3	Hexachlorobutadiene	260	U
105-60-2	Caprolactam	260	U
59-50-7	4-Chloro-3-methylphenol	260	U
91-57-6	2-Methylnaphthalene	370	Ø → "
77-47-4	Hexachlorocyclopentadiene	650	UJ
88-06-2	2,4,6-Trichlorophenol	260	U
95-95-4	2,4,5-Trichlorophenol	260	U
92-52-4	1,1'-Biphenyl	260	U
91-58-7	2-Chloronaphthalene	260	U
88-74-4	2-Nitroaniline	520	U
131-11-3	Dimethylphthalate	260	U
606-20-2	2,6-Dinitrotoluene	260	U
208-96-8	Acenapnthylene	1700	Ø → "
99-09-2	3-Nitroaniline	520	U
83-32-9	Acenaphthene	220	BJ
51-28-5	2,4-Dinitrophenol	1300	UJ
100-02-7	4-Nitrophenol	520	UJ
132-64-9	Dibenzofuran	260	U
121-14-2	2,4-Dinitrotoluene	260	U

BREMERTON-012652

1E - FORM I SV-2 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K76DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.04DL

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G1338

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 10.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	260	U
86-73-7	Fluorene	700	~~U~~ → Report
7005-72-3	4-Chlorophenyl-phenylether	260	U
100-01-6	4-Nitroaniline	520	U
534-52-1	4,6-Dinitro-2-methylphenol	520	U
86-30-6	N-Nitrosodiphenylamine 1	260	U
95-94-3	1,2,4,5-Tetrachlorobenzene	260	U
101-55-3	4-Bromophenyl-phenylether	260	U
118-74-1	Hexachlorobenzene	260	U
1912-24-9	Atrazine	260	U
87-86-5	Pentachlorophenol	260	UJ
85-01-8	Phenanthrene	5800	DE → Report from J8K76DL2 (Fulls.
120-12-7	Anthracene	2300	~~U~~ → Report
86-74-8	Carbazole	260	U
84-74-2	Di-n-butylphthalate	260	U
206-44-0	Fluoranthene	15000	DE → Report from J8K76DL2 (Fulls
129-00-0	Pyrene	13000	DE
85-68-7	Butylbenzylphthalate	260	U
91-94-1	3,3'-Dichlorobenzidine	260	U
56-55-3	Benzo(a)anthracene	5500	DE → "
218-01-9	Chrysene	5500	DE
117-81-7	Bis(2-ethylhexyl)phthalate	260	U
117-84-0	Di-n-octylphthalate	260	U
205-99-2	Benzo(b)fluoranthene	3800	D → "
207-08-9	Benzo(k)fluoranthene	3700	D
50-32-8	Benzo(a)pyrene	5300	DE → Report from J8K76DL2 (Fulls.)
193-39-5	Indeno(1,2,3-cd)pyrene	3100	D
53-70-3	Dibenzo(a,h)anthracene	870	D → Report
191-24-2	Benzo(g,h,i)perylene	3000	D
58-90-2	2,3,4,6-Tetrachlorophenol	260	U
92-87-5	Benzidine	260	U
95-50-1	1,2-Dichlorobenzene	260	U
106-46-7	1,4-Dichlorobenzene	260	U
541-73-1	1,3-Dichlorobenzene	260	U
62-75-9	N-Nitrosodimethylamine	260	U
95-63-6	1,2,4-Trimethylbenzene	260	U
108-67-8	1,3,5-Trimethylbenzene	260	U

1 Cannot be separated from Diphenylamine

9/16/08

BREMERTON-012653

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K76DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.04DL

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G1338

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 10.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	18.04	1600	DJ
02		Unknown-02	18.18	1900	DJ
03		Unknown-03	18.26	820	DJ
04		Unknown-04	18.30	770	DJ
05	000207-08-9	Benzo[k]fluoranthene	18.52	1500	DNJ
06		Unknown-05	18.70	1800	DJ
07		Unknown-06	19.08	1300	DJ
08	000239-85-0	13H-Dibenzo[a,h]fluorene	19.18	830	DNJ
09		Unknown-07	19.25	1600	DJ
10		Unknown-08	19.57	1100	DJ
11		Unknown-09	19.69	970	DJ
12		Unknown-10	19.76	840	DJ
13		Unknown-11	19.89	860	DJ
14		Unknown-12	19.96	840	DJ
15		Unknown-13	20.12	1100	DJ
16		Unknown-14	20.15	810	DJ
17		Unknown-15	20.34	1100	DJ
18		Unknown-16	20.45	860	DJ
19		Unknown-17	20.52	1200	DJ
20		Unknown-18	20.72	830	DJ
21		Unknown-19	20.79	900	DJ
22	000213-46-7	1,2:7,8-Dibenzophenanthrene	21.17	1200	DNJ
23	000053-70-3	Dibenz[a,h]anthracene	21.26	1300	DNJ
24		Unknown-20	21.39	760	DJ
25		Unknown-21	21.87	1400	DJ
26		Unknown-22	22.43	1000	DJ
27	129940-64-3	20,24-Dihydroxy-4,7,13,16,22-	22.55	780	DNJ
28		Unknown-23	22.69	960	DJ
29		Unknown-24	22.91	810	DJ
30	005385-75-1	Dibenz(a,e)aceanthrylene	24.86	1000	DNJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/16/08

8996

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K76DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.04DL2

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G1341

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 50.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	1300	U
108-95-2	Phenol	1300	U
111-44-4	Bis(2-chloroethyl)ether	1300	U
95-57-8	2-Chlorophenol	1300	U
95-48-7	2-Methylphenol	1300	U
108-60-1	2,2'-Oxybis(1-chloropropane)	1300	U
98-86-2	Acetophenone	1300	U
106-44-5	4-Methylphenol	1300	U
621-64-7	N-Nitroso-di-n-propylamine	1300	U
67-72-1	Hexachloroethane	1300	U
98-95-3	Nitrobenzene	1300	U
78-59-1	Isophorone	1300	U
88-75-5	2-Nitrophenol	1300	U
105-67-9	2,4-Dimethylphenol	1300	U
111-91-1	Bis(2-chloroethoxy)methane	1300	U
120-83-2	2,4-Dichlorophenol	1300	U
91-20-3	Naphthalene	1300	U
106-47-8	4-Chloroaniline	1300	U
87-68-3	Hexachlorobutadiene	1300	U
105-60-2	Caprolactam	1300	U
59-50-7	4-Chloro-3-methylphenol	1300	U
91-57-6	2-Methylnaphthalene	1300	U
77-47-4	Hexachlorocyclopentadiene	3300	UJ
88-06-2	2,4,6-Trichlorophenol	1300	U
95-95-4	2,4,5-Trichlorophenol	1300	U
92-52-4	1,1'-Biphenyl	1300	U
91-58-7	2-Chloronaphthalene	1300	U
88-74-4	2-Nitroaniline	2600	U
131-11-3	Dimethylphthalate	1300	U
606-20-2	2,6-Dinitrotoluene	1300	U
208-96-8	Acenaphthylene	920	DJ
99-09-2	3-Nitroaniline	2600	U
83-32-9	Acenaphthene	1300	U
51-28-5	2,4-Dinitrophenol	6500	UJ
100-02-7	4-Nitrophenol	2600	UJ
132-64-9	Dibenzofuran	1300	U
121-14-2	2,4-Dinitrotoluene	1300	U

BREMERTON-012655

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K76DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.04DL2

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G1341

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 50.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	1300	U
86-73-7	Fluorene	1300	U
7005-72-3	4-Chlorophenyl-phenylether	1300	U
100-01-6	4-Nitroaniline	2600	U
534-52-1	4,6-Dinitro-2-methylphenol	2600	U
86-30-6	N-Nitrosodiphenylamine 1	1300	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1300	U
101-55-3	4-Bromophenyl-phenylether	1300	U
118-74-1	Hexachlorobenzene	1300	U
1912-24-9	Atrazine	1300	U
87-86-5	Pentachlorophenol	1300	UJ
85-01-8	Phenanthrene	2900	~~D~~ → Report
120-12-7	Anthracene	1400	D
86-74-8	Carbazole	1300	U
84-74-2	Di-n-butylphthalate	1300	U
206-44-0	Fluoranthene	6500	~~D~~ → "
129-00-0	Pyrene	7500	~~D~~ → "
85-68-7	Butylbenzylphthalate	1300	U
91-94-1	3,3'-Dichlorobenzidine	1300	U
56-55-3	Benzo(a)anthracene	3000	~~D~~ → "
218-01-9	Chrysene	3300	~~D~~ → "
117-81-7	Bis(2-ethylhexyl)phthalate	1300	U
117-84-0	Di-n-octylphthalate	1300	U
205-99-2	Benzo(b)fluoranthene	2400	D
207-08-9	Benzo(k)fluoranthene	2600	D
50-32-8	Benzo(a)pyrene	3400	~~D~~ → "
193-39-5	Indeno(1,2,3-cd)pyrene	2200	D
53-70-3	Dibenzo(a,h)anthracene	1300	U
191-24-2	Benzo(g,h,i)perylene	2200	D
58-90-2	2,3,4,6-Tetrachlorophenol	1300	U
92-87-5	Benzidine	1300	U
95-50-1	1,2-Dichlorobenzene	1300	U
106-46-7	1,4-Dichlorobenzene	1300	U
541-73-1	1,3-Dichlorobenzene	1300	U
62-75-9	N-Nitrosodimethylamine	1300	U
95-63-6	1,2,4-Trimethylbenzene	1300	U
108-67-8	1,3,5-Trimethylbenzene	1300	U

1 Cannot be separated from Diphenylamine

BREMERTON-012656

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K76DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.04DL2

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G1341

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 50.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	15.00	3100	DJ
02	000781-43-1	9,10-Dimethylanthracene	15.48	1400	DNJ
03		Unknown-02	15.52	1300	DJ
04		Unknown-03	15.58	1500	DJ
05		Unknown-04	16.88	2200	DJ
06	000082-05-3	7H-Benz[de]anthracen-7-one	17.28	3400	DNJ
07		Unknown-05	17.63	1500	DJ
08		Unknown-06	17.70	1600	DJ
09		Unknown-07	18.17	4000	DJ
10	000192-97-2	Benzo[e]pyrene	18.50	2700	DNJ
11		Unknown-08	18.70	1900	DJ
12	000192-97-2	Benzo[e]pyrene	18.75	2600	DNJ
13		Unknown-09	19.20	3800	DJ
14		Unknown-10	19.67	1900	DJ
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/16/08

BREMERTON-012657

Do NOT REPORT

PFNO 7151 cont'd

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K76RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.04RE

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G1327

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	52	
108-95-2	Phenol	26	U
111-44-4	Bis(2-chloroethyl)ether	26	U
95-57-8	2-Chlorophenol	26	U
95-48-7	2-Methylphenol	26	U
108-60-1	2,2'-Oxybis(1-chloropropane)	26	U
98-86-2	Acetophenone	26	U
106-44-5	4-Methylphenol	17	J
621-64-7	N-Nitroso-di-n-propylamine	26	U
67-72-1	Hexachloroethane	26	U
98-95-3	Nitrobenzene	26	U
78-59-1	Isophorone	26	U
88-75-5	2-Nitrophenol	26	U
105-67-9	2,4-Dimethylphenol	26	U
111-91-1	Bis(2-chloroethoxy)methane	26	U
120-83-2	2,4-Dichlorophenol	26	U
91-20-3	Naphthalene	640	E
106-47-8	4-Chloroaniline	26	U
87-68-3	Hexachlorobutadiene	26	U
105-60-2	Caprolactam	26	U
59-50-7	4-Chloro-3-methylphenol	26	U
91-57-6	2-Methylnaphthalene	440	E
77-47-4	Hexachlorocyclopentadiene	66	UJ
88-06-2	2,4,6-Trichlorophenol	26	U
95-95-4	2,4,5-Trichlorophenol	26	U
92-52-4	1,1'-Biphenyl	86	
91-58-7	2-Chloronaphthalene	26	U
88-74-4	2-Nitroaniline	52	U
131-11-3	Dimethylphthalate	26	U
606-20-2	2,6-Dinitrotoluene	26	U
208-96-8	Acenaphthylene	1800	E
99-09-2	3-Nitroaniline	52	U
83-32-9	Acenaphthene	230	
51-28-5	2,4-Dinitrophenol	130	UJ
100-02-7	4-Nitrophenol	52	U
132-64-9	Dibenzofuran	75	
121-14-2	2,4-Dinitrotoluene	26	U

BREMERTON-012658

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K76RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.04RE

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G1327

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	26	U
86-73-7	Fluorene	770	E
7005-72-3	4-Chlorophenyl-phenylether	26	U
100-01-6	4-Nitroaniline	52	U
534-52-1	4,6-Dinitro-2-methylphenol	52	U
86-30-6	N-Nitrosodiphenylamine 1	26	U
95-94-3	1,2,4,5-Tetrachlorobenzene	26	U
101-55-3	4-Bromophenyl-phenylether	26	U
118-74-1	Hexachlorobenzene	26	U
1912-24-9	Atrazine	26	U
87-86-5	Pentachlorophenol	26	UJ
85-01-8	Phenanthrene	2000	E
120-12-7	Anthracene	1100	E
86-74-8	Carbazole	95	
84-74-2	Di-n-butylphthalate	26	U
206-44-0	Fluoranthene	3800	E
129-00-0	Pyrene	1400	E J
85-68-7	Butylbenzylphthalate	26	U
91-94-1	3,3'-Dichlorobenzidine	26	U
56-55-3	Benzo(a)anthracene	780	E J
218-01-9	Chrysene	890	E J
117-81-7	Bis(2-ethylhexyl)phthalate	26	U
117-84-0	Di-n-octylphthalate	26	U
205-99-2	Benzo(b)fluoranthene	1200	E J
207-08-9	Benzo(k)fluoranthene	1200	E J
50-32-8	Benzo(a)pyrene	3800	E J
193-39-5	Indeno(1,2,3-cd)pyrene	1500	E J
53-70-3	Dibenzo(a,h)anthracene	570	E J
191-24-2	Benzo(g,h,i)perylene	1100	E J
58-90-2	2,3,4,6-Tetrachlorophenol	26	U
92-87-5	Benzidine	26	U
95-50-1	1,2-Dichlorobenzene	26	U
106-46-7	1,4-Dichlorobenzene	24	J
541-73-1	1,3-Dichlorobenzene	26	U
62-75-9	N-Nitrosodimethylamine	26	U
95-63-6	1,2,4-Trimethylbenzene	26	U
108-67-8	1,3,5-Trimethylbenzene	26	U

1 Cannot be separated from Diphenylamine

BREMERTON-012659

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K76RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.04RE

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G1327

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.05	110	J
02		Unknown-02	2.17	71	J
03		Unknown-03	2.37	170	J
04		Unknown-04	3.09	130	J
05	000694-87-1	Bicyclo[4.2.0]octa-1,3,5-trie	3.69	130	NJ
06	000622-97-9	Benzene, 1-ethenyl-4-methyl-	5.32	100	NJ
07		Unknown-05	5.38	79	J
08	000673-32-5	Benzene, 1-propynyl-	6.16	100	NJ
09		Unknown-06	7.28	76	J
10		Unknown-07	7.46	100	J
11		Unknown-08	7.97	97	J
12		Unknown-09	8.47	110	J
13	000270-63-3	Cyclopenta[c]thiapyran	8.53	91	NJ
14		Unknown-10	9.60	71	J
15		Unknown-11	9.70	62	J
16	004453-90-1	1,4-Methanonaphthalene, 1,4-d	9.94	390	NJ
17		Unknown-12	10.14	350	J
18	000091-57-6	Naphthalene, 2-methyl-	10.27	470	NJ
19	000582-16-1	Naphthalene, 2,7-dimethyl-	11.50	110	NJ
20	000575-41-7	Naphthalene, 1,3-dimethyl-	11.67	120	NJ
21	000827-54-3	Naphthalene, 2-ethenyl-	11.77	170	NJ
22	000571-58-4	Naphthalene, 1,4-dimethyl-	11.98	83	NJ
23	1000187-78-5	3-(2-Methyl-propenyl)-1H-inde	12.46	83	NJ
24	000829-26-5	Naphthalene, 2,3,6-trimethyl-	12.64	87	NJ
25	002131-42-2	Naphthalene, 1,4,6-trimethyl-	12.69	130	NJ
26	002131-42-2	Naphthalene, 1,4,6-trimethyl-	12.83	270	NJ
27		Unknown-13	12.97	290	J
28	001855-47-6	1-Isopropenylnaphthalene	13.20	120	NJ
29		Unknown-14	13.26	270	J
30		Unknown-15	15.05	96	J
	E3667962	Total Alkanes	N/A		

2 EPA-designated Registry Number.

9/16/08

BREMERTON-012660

DO NOT REPORT

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K76

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.04

Sample wt/vol: 100.6 (g/mL) G Lab File ID: F26784

Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	580	E
91-57-6	2-Methylnaphthalene	550	E
208-96-8	Acenaphthylene	3600	E
83-32-9	Acenaphthene	220	E
86-73-7	Fluorene	740	E
87-86-5	Pentachlorophenol	110	E
85-01-8	Phenanthrene	24000	E
120-12-7	Anthracene	11000	E
206-44-0	Fluoranthene	39000	E
129-00-0	Pyrene	32000	E
56-55-3	Benzo(a)anthracene	23000	E
218-01-9	Chrysene	17000	E
205-99-2	Benzo(b)fluoranthene	4400	E
207-08-9	Benzo(k)fluoranthene	2700	E
50-32-8	Benzo(a)pyrene	7600	E
193-39-5	Indeno(1,2,3-cd)pyrene	2400	E
53-70-3	Dibenzo(a,h)anthracene	1100	E
191-24-2	Benzo(g,h,i)perylene	1800	E

[1] Cannot be separated from Diphenylamine

9/16/08

SOM01.2 (6/2007)

1847

BREMERTON-012661

Do NOT REPORT

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K76DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.04DL

Sample wt/vol: 100.6 (g/mL) G Lab File ID: F26811

Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 10.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	770	DE
91-57-6	2-Methylnaphthalene	600	DE
208-96-8	Acenaphthylene	2000	DE
83-32-9	Acenaphthene	270	DE
86-73-7	Fluorene	950	DE
87-86-5	Pentachlorophenol	26	DJ
85-01-8	Phenanthrene	6500	DE
120-12-7	Anthracene	2800	DE
206-44-0	Fluoranthene	10000	DE
129-00-0	Pyrene	12000	DE
56-55-3	Benzo(a)anthracene	6900	DE
218-01-9	Chrysene	8700	DE
205-99-2	Benzo(b)fluoranthene	1200	DE
207-08-9	Benzo(k)fluoranthene	1800	DE
50-32-8	Benzo(a)pyrene	3400	DE
193-39-5	Indeno(1,2,3-cd)pyrene	820	DE
53-70-3	Dibenzo(a,h)anthracene	450	DE
191-24-2	Benzo(g,h,i)perylene	810	DE

[1] Cannot be separated from Diphenylamine

9/16/08

DO NOT REPORT

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K76RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.04RE

Sample wt/vol: 100.6 (g/mL) G Lab File ID: F26789

Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	700	E
91-57-6	2-Methylnaphthalene	620	E
208-96-8	Acenaphthylene	4100	E
83-32-9	Acenaphthene	210	E
86-73-7	Fluorene	460	E
87-86-5	Pentachlorophenol	52	E
85-01-8	Phenanthrene	11000	E
120-12-7	Anthracene	5700	E
206-44-0	Fluoranthene	26000	E
129-00-0	Pyrene	17000	E
56-55-3	Benzo(a)anthracene	11000	E
218-01-9	Chrysene	9600	E
205-99-2	Benzo(b)fluoranthene	4800	E
207-08-9	Benzo(k)fluoranthene	1600	E
50-32-8	Benzo(a)pyrene	7900	E
193-39-5	Indeno(1,2,3-cd)pyrene	2400	E
53-70-3	Dibenzo(a,h)anthracene	1300	E
191-24-2	Benzo(g,h,i)perylene	1900	E

[1] Cannot be separated from Diphenylamine

9/16/08

BREMERTON-012663

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K77

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.05

Sample wt/vol: 4.400 (g/mL) G Lab File ID: B16918

Level: (TRACE/LOW/MED) LOW Date Received: 06/06/2008

% Moisture: not dec. 17 Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.4	U
74-87-3	Chloromethane	1.4	U
75-01-4	Vinyl chloride	1.4	U
74-83-9	Bromomethane	1.4	U
75-00-3	Chloroethane	1.4	U
75-69-4	Trichlorofluoromethane	1.4	UJ
75-35-4	1,1-Dichloroethene	1.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.4	U
67-64-1	Acetone	6.8	U
75-15-0	Carbon disulfide	1.4	U
79-20-9	Methyl acetate	1.4	U
75-09-2	Methylene chloride	1.4 ~~1.2~~	UB
156-60-5	trans-1,2-Dichloroethene	1.4	U
1634-04-4	Methyl tert-butyl ether	1.4	U
75-34-3	1,1-Dichloroethane	1.4	U
156-59-2	cis-1,2-Dichloroethene	1.4	U
78-93-3	2-Butanone	6.8	U
74-97-5	Bromochloromethane	1.4	U
67-66-3	Chloroform	1.4	U
71-55-6	1,1,1-Trichloroethane	1.4	U
110-82-7	Cyclohexane	1.4	U
56-23-5	Carbon tetrachloride	1.4	U
71-43-2	Benzene	1.4	U
107-06-2	1,2-Dichloroethane	1.4	U
123-91-1	1,4-Dioxane	140	U
79-01-6	Trichloroethene	1.4	U
108-87-2	Methylcyclohexane	1.4	U
78-87-5	1,2-Dichloropropane	1.4	U
75-27-4	Bromodichloromethane	1.4	U
10061-01-5	cis-1,3-Dichloropropene	1.4	U
108-10-1	4-Methyl-2-pentanone	6.8	U
108-88-3	Toluene	1.4	U
10061-02-6	trans-1,3-Dichloropropene	1.4	U
79-00-5	1,1,2-Trichloroethane	1.4	U

9/16/08

SOM01.2 (6/2007)

0148

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K77

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.05

Sample wt/vol: 4.400 (g/mL) G Lab File ID: B16918

Level: (TRACE/LOW/MED) LOW Date Received: 06/06/2008

% Moisture: not dec. 17 Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.4	U
591-78-6	2-Hexanone	6.8	U
124-48-1	Dibromochloromethane	1.4	U
106-93-4	1,2-Dibromoethane	1.4	U
108-90-7	Chlorobenzene	1.4	U
100-41-4	Ethylbenzene	1.4	U
95-47-6	o-Xylene	1.4	U
179601-23-1	m,p-Xylene	1.4	U
100-42-5	Styrene	1.4	U
75-25-2	Bromoform	1.4	U
98-82-8	Isopropylbenzene	1.4	U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U
541-73-1	1,3-Dichlorobenzene	1.4	U
106-46-7	1,4-Dichlorobenzene	1.4	U
95-50-1	1,2-Dichlorobenzene	1.4	U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	U
120-82-1	1,2,4-Trichlorobenzene	6.8	U
87-61-6	1,2,3-Trichlorobenzene	6.8	U
87-68-3	Hexachlorobutadiene	1.4	U
67-72-1	Hexachloroethane	2.7	U
91-20-3	Naphthalene	1.4	U
630-20-6	1,1,1,2-Tetrachloroethane	1.4	U
96-18-4	1,2,3-Trichloropropane	1.4	U

9/16/08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K77

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.05

Sample wt/vol: 4.400 (g/mL) G Lab File ID: B16918

Level: (TRACE or LOW/MED) LOW Date Received: 06/06/2008

% Moisture: not dec. 17 Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.65	2.8	JN
02		Unknown-02	4.51	2.5	J
03		Unknown-03	10.49	2.4	J
04		Unknown-04	11.13	7.2	J
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

9/16/08

3159

BREMERTON-012666

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K77

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.05

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1320

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	24	U
108-95-2	Phenol	24	U
111-44-4	Bis(2-chloroethyl)ether	24	U
95-57-8	2-Chlorophenol	24	U
95-48-7	2-Methylphenol	24	U
108-60-1	2,2'-Oxybis(1-chloropropane)	24	U
98-86-2	Acetophenone	24	U
106-44-5	4-Methylphenol	24	U
621-64-7	N-Nitroso-di-n-propylamine	24	U
67-72-1	Hexachloroethane	24	U
98-95-3	Nitrobenzene	24	U
78-59-1	Isophorone	24	U
88-75-5	2-Nitrophenol	24	U
105-67-9	2,4-Dimethylphenol	24	U
111-91-1	Bis(2-chloroethoxy)methane	24	U
120-83-2	2,4-Dichlorophenol	24	U
91-20-3	Naphthalene	300	
106-47-8	4-Chloroaniline	24	U
87-68-3	Hexachlorobutadiene	24	U
105-60-2	Caprolactam	24	U
59-50-7	4-Chloro-3-methylphenol	24	U
91-57-6	2-Methylnaphthalene	210	
77-47-4	Hexachlorocyclopentadiene	60	UJ
88-06-2	2,4,6-Trichlorophenol	24	U
95-95-4	2,4,5-Trichlorophenol	24	U
92-52-4	1,1'-Biphenyl	60	
91-58-7	2-Chloronaphthalene	24	U
88-74-4	2-Nitroaniline	48	U
131-11-3	Dimethylphthalate	24	U
606-20-2	2,6-Dinitrotoluene	24	U
208-96-8	Acenaphthylene	1600	E → Report from J8K77DL(full S
99-09-2	3-Nitroaniline	48	U
83-32-9	Acenaphthene	97	
51-28-5	2,4-Dinitrophenol	120	UJ
100-02-7	4-Nitrophenol	48	U
132-64-9	Dibenzofuran	69	
121-14-2	2,4-Dinitrotoluene	24	U

BREMERTON-012667

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K77

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.05

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1320

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	24	U
86-73-7	Fluorene	930	E
7005-72-3	4-Chlorophenyl-phenylether	24	U
100-01-6	4-Nitroaniline	48	U
534-52-1	4,6-Dinitro-2-methylphenol	48	U
86-30-6	N-Nitrosodiphenylamine 1	24	U
95-94-3	1,2,4,5-Tetrachlorobenzene	24	U
101-55-3	4-Bromophenyl-phenylether	24	U
118-74-1	Hexachlorobenzene	24	U
1912-24-9	Atrazine	24	U
87-86-5	Pentachlorophenol	24	UJ
85-01-8	Phenanthrene	2200	E
120-12-7	Anthracene	840	E
86-74-8	Carbazole	69	
84-74-2	Di-n-butylphthalate	24	U
206-44-0	Fluoranthene	4000	E
129-00-0	Pyrene	1300	EJ
85-68-7	Butylbenzylphthalate	24	U
91-94-1	3,3'-Dichlorobenzidine	24	U
56-55-3	Benzo(a)anthracene	940	EJ
218-01-9	Chrysene	500	EJ
117-81-7	Bis(2-ethylhexyl)phthalate	24	U
117-84-0	Di-n-octylphthalate	24	U
205-99-2	Benzo(b)fluoranthene	3600	EJ
207-08-9	Benzo(k)fluoranthene	1300	EJ
50-32-8	Benzo(a)pyrene	8500	EJ
193-39-5	Indeno(1,2,3-cd)pyrene	3800	EJ
53-70-3	Dibenzo(a,h)anthracene	1400	EJ
191-24-2	Benzo(g,h,i)perylene	4200	EJ
58-90-2	2,3,4,6-Tetrachlorophenol	24	U
92-87-5	Benzidine	24	U
95-50-1	1,2-Dichlorobenzene	24	U
106-46-7	1,4-Dichlorobenzene	22	JQ
541-73-1	1,3-Dichlorobenzene	24	U
62-75-9	N-Nitrosodimethylamine	24	U
95-63-6	1,2,4-Trimethylbenzene	15	JQ
108-67-8	1,3,5-Trimethylbenzene	21	JQ

Report from J8K77DL (Full S.)

Report from J8K77DL (Full S.)

Report from J8K77DL (Full S.)

Report from J8K77DL2 (Full S.)

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Report from J8K77DL (Full S.)

Report from J8K77DL2 (Full S.)

Report from J8K77DL (Full S.)

1 Cannot be separated from Diphenylamine

BREMERTON-012668

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K77

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.05

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1320

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.05	120	JN
02		Unknown-02	2.17	80	J
03		Unknown-03	2.97	150	J
04		Unknown-04	3.08	120	J
05	000694-87-1	Bicyclo[4.2.0]octa-1,3,5-trie	3.68	110	NJ
06		Unknown-05	4.01	43	JN
07		Unknown-06	5.37	46	JN
08	000673-32-5	Benzene, 1-propynyl-	6.16	69	NJ
09		Unknown-07	6.94	49	JN
10		Unknown-08	7.45	48	JN
11	1000151-92-4	p-menth-1-en-8-ol	8.46	85	NJ
12	004453-90-1	1,4-Methanonaphthalene, 1,4-d	9.93	260	NJ
13	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.13	270	NJ
14	000090-12-0	Naphthalene, 1-methyl-	10.26	210	NJ
15	000582-16-1	Naphthalene, 2,7-dimethyl-	11.48	95	NJ
16	000575-41-7	Naphthalene, 1,3-dimethyl-	11.66	140	NJ
17	000575-43-9	Naphthalene, 1,6-dimethyl-	11.69	66	NJ
18	000827-54-3	Naphthalene, 2-ethenyl-	11.76	120	NJ
19	000581-40-8	Naphthalene, 2,3-dimethyl-	11.87	72	NJ
20		Unknown-09	12.45	47	JN
21	002131-42-2	Naphthalene, 1,4,6-trimethyl-	12.63	88	NJ
22	002131-42-2	Naphthalene, 1,4,6-trimethyl-	12.68	120	NJ
23	1000187-78-5	3-(2-Methyl-propenyl)-1H-inde	12.82	240	NJ
24		Unknown-10	12.96	250	JN
25		Unknown-11	13.19	97	J
26		Unknown-12	13.25	210	J
27		Unknown-13	15.04	74	J
28		Unknown-14	15.72	180	J
29	002381-21-7	Pyrene, 1-methyl-	16.28	46	NJ
30		Unknown-15	16.93	43	JN
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/16/08

BREMERTON-012669

1D - FORM I SV-1 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K77DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.05DL

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1339

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 10.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	240	U
108-95-2	Phenol	240	U
111-44-4	Bis(2-chloroethyl)ether	240	U
95-57-8	2-Chlorophenol	240	U
95-48-7	2-Methylphenol	240	U
108-60-1	2,2'-Oxybis(1-chloropropane)	240	U
98-86-2	Acetophenone	240	U
106-44-5	4-Methylphenol	240	U
621-64-7	N-Nitroso-di-n-propylamine	240	U
67-72-1	Hexachloroethane	240	U
98-95-3	Nitrobenzene	240	U
78-59-1	Isophorone	240	U
88-75-5	2-Nitrophenol	240	U
105-67-9	2,4-Dimethylphenol	240	U
111-91-1	Bis(2-chloroethoxy)methane	240	U
120-83-2	2,4-Dichlorophenol	240	U
91-20-3	Naphthalene	290	D
106-47-8	4-Chloroaniline	240	U
87-68-3	Hexachlorobutadiene	240	U
105-60-2	Caprolactam	240	U
59-50-7	4-Chloro-3-methylphenol	240	U
91-57-6	2-Methylnaphthalene	190	DJ
77-47-4	Hexachlorocyclopentadiene	600	UJ
88-06-2	2,4,6-Trichlorophenol	240	U
95-95-4	2,4,5-Trichlorophenol	240	U
92-52-4	1,1'-Biphenyl	240	U
91-58-7	2-Chloronaphthalene	240	U
88-74-4	2-Nitroaniline	480	U
131-11-3	Dimethylphthalate	240	U
606-20-2	2,6-Dinitrotoluene	240	U
208-96-8	Acenaphthylene	1300	J → Report
99-09-2	3-Nitroaniline	480	U
83-32-9	Acenaphthene	130	DJ
51-28-5	2,4-Dinitrophenol	1200	UJ
100-02-7	4-Nitrophenol	480	UJ
132-64-9	Dibenzofuran	240	U
121-14-2	2,4-Dinitrotoluene	240	U

BREMERTON-012670

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K77DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.05DL

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1339

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 10.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
84-66-2	Diethylphthalate	240	U	
86-73-7	Fluorene	780	~~D~~	→ Report
7005-72-3	4-Chlorophenyl-phenylether	240	U	
100-01-6	4-Nitroaniline	480	U	
534-52-1	4,6-Dinitro-2-methylphenol	480	U	
86-30-6	N-Nitrosodiphenylamine 1	240	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	240	U	
101-55-3	4-Bromophenyl-phenylether	240	U	
118-74-1	Hexachlorobenzene	240	U	
1912-24-9	Atrazine	240	U	
87-86-5	Pentachlorophenol	240	UJ	
85-01-8	Phenanthrene	8800	DE	→ Report from J8K77DL2 (Full S.)
120-12-7	Anthracene	1700	~~D~~	→ Report
86-74-8	Carbazole	240	U	
84-74-2	Di-n-butylphthalate	240	U	
206-44-0	Fluoranthene	15000	DE	→ Report from J8K77DL2 (Full
129-00-0	Pyrene	15000	DE	
85-68-7	Butylbenzylphthalate	240	U	
91-94-1	3,3'-Dichlorobenzidine	240	U	
56-55-3	Benzo(a)anthracene	5500	DE	→ "
218-01-9	Chrysene	5400	DE	
117-81-7	Bis(2-ethylhexyl)phthalate	240	U	
117-84-0	Di-n-octylphthalate	240	U	
205-99-2	Benzo(b)fluoranthene	3400	~~D~~	→ Report
207-08-9	Benzo(k)fluoranthene	3600	~~D~~	
50-32-8	Benzo(a)pyrene	5900	DE	→ Report from J8K77DL (Full S.
193-39-5	Indeno(1,2,3-cd)pyrene	3200	D	→ Report
53-70-3	Dibenzo(a,h)anthracene	860	D	
191-24-2	Benzo(g,h,i)perylene	3800	D	
58-90-2	2,3,4,6-Tetrachlorophenol	240	U	
92-87-5	Benzidine	240	U	
95-50-1	1,2-Dichlorobenzene	240	U	
106-46-7	1,4-Dichlorobenzene	240	U	
541-73-1	1,3-Dichlorobenzene	240	U	
62-75-9	N-Nitrosodimethylamine	240	U	
95-63-6	1,2,4-Trimethylbenzene	240	U	
108-67-8	1,3,5-Trimethylbenzene	240	U	

1 Cannot be separated from Diphenylamine

BREMERTON-012671

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K77DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.05DL

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1339

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 10.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000575-43-9	Naphthalene, 1,6-dimethyl-	11.65	410	DNJ
02	000829-26-5	Naphthalene, 2,3,6-trimethyl-	12.67	540	DNJ
03		Unknown-01	12.95	480	DJ
04		Unknown-02	13.24	390	DJ
05	002531-84-2	Phenanthrene, 2-methyl-	14.91	500	DNJ
06		Unknown-03	15.01	490	DJ
07	000195-19-7	Benzo[c]phenanthrene	16.89	500	DNJ
08	000082-05-3	7H-Benz[de]anthracen-7-one	17.28	390	DNJ
09	002498-77-3	Benz[a]anthracene, 1-methyl-	17.54	340	DNJ
10	001482-93-5	Cyclohexane, hexaethylidene-	17.71	380	DNJ
11		Unknown-04	18.18	1100	DJ
12	000192-97-2	Benzo[e]pyrene	18.52	660	DNJ
13		Unknown-05	19.08	400	DJ
14		Unknown-06	19.18	360	DJ
15		Unknown-07	19.25	510	DJ
16		Unknown-08	19.37	560	DJ
17		Unknown-09	19.55	430	DJ
18		Unknown-10	19.69	390	DJ
19		Unknown-11	20.14	640	DJ
20		Unknown-12	20.33	370	DJ
21		Unknown-13	20.52	410	DJ
22	000191-26-4	Dibenzo[def,mno]chrysene	20.72	580	DNJ
23		Unknown-14	21.17	430	DJ
24		Unknown-15	21.26	430	DJ
25		Unknown-16	21.33	360	DJ
26	000191-24-2	Benzo[ghi]perylene	21.87	710	DNJ
27		Unknown-17	22.43	340	DJ
28		Unknown-18	22.71	380	DJ
29	005385-75-1	Dibenz[a,e]aceanthrylene	24.85	450	DNJ
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/16/08

BREMERTON-012672

1D - FORM I SV-1 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K77DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.05DL2

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1342

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 100.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	2400	U
108-95-2	Phenol	2400	U
111-44-4	Bis(2-chloroethyl)ether	2400	U
95-57-8	2-Chlorophenol	2400	U
95-48-7	2-Methylphenol	2400	U
108-60-1	2,2'-Oxybis(1-chloropropane)	2400	U
98-86-2	Acetophenone	2400	U
106-44-5	4-Methylphenol	2400	U
621-64-7	N-Nitroso-di-n-propylamine	2400	U
67-72-1	Hexachloroethane	2400	U
98-95-3	Nitrobenzene	2400	U
78-59-1	Isophorone	2400	U
88-75-5	2-Nitrophenol	2400	U
105-67-9	2,4-Dimethylphenol	2400	U
111-91-1	Bis(2-chloroethoxy)methane	2400	U
120-83-2	2,4-Dichlorophenol	2400	U
91-20-3	Naphthalene	2400	U
106-47-8	4-Chloroaniline	2400	U
87-68-3	Hexachlorobutadiene	2400	U
105-60-2	Caprolactam	2400	U
59-50-7	4-Chloro-3-methylphenol	2400	U
91-57-6	2-Methylnaphthalene	2400	U
77-47-4	Hexachlorocyclopentadiene	6000	UJ
88-06-2	2,4,6-Trichlorophenol	2400	U
95-95-4	2,4,5-Trichlorophenol	2400	U
92-52-4	1,1'-Biphenyl	2400	U
91-58-7	2-Chloronaphthalene	2400	U
88-74-4	2-Nitroaniline	4800	U
131-11-3	Dimethylphthalate	2400	U
606-20-2	2,6-Dinitrotoluene	2400	U
208-96-8	Acenaphthylene	1300	DJ
99-09-2	3-Nitroaniline	4800	U
83-32-9	Acenaphthene	2400	U
51-28-5	2,4-Dinitrophenol	12000	UJ
100-02-7	4-Nitrophenol	4800	UJ
132-64-9	Dibenzofuran	2400	U
121-14-2	2,4-Dinitrotoluene	2400	U

BREMERTON-012673

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K77DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.05DL2

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1342

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 100.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	2400	U
86-73-7	Fluorene	2400	U
7005-72-3	4-Chlorophenyl-phenylether	2400	U
100-01-6	4-Nitroaniline	4800	U
534-52-1	4,6-Dinitro-2-methylphenol	4800	U
86-30-6	N-Nitrosodiphenylamine 1	2400	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2400	U
101-55-3	4-Bromophenyl-phenylether	2400	U
118-74-1	Hexachlorobenzene	2400	U
1912-24-9	Atrazine	2400	U
87-86-5	Pentachlorophenol	2400	UJ
85-01-8	Phenanthrene	8100	~~U~~ J → Report
120-12-7	Anthracene	1600	~~U~~ J
86-74-8	Carbazole	2400	U
84-74-2	Di-n-butylphthalate	2400	U
206-44-0	Fluoranthene	15000	~~U~~ J → Report
129-00-0	Pyrene	18000	~~U~~
85-68-7	Butylbenzylphthalate	2400	U
91-94-1	3,3'-Dichlorobenzidine	2400	U
56-55-3	Benzo(a)anthracene	5600	~~U~~ → "
218-01-9	Chrysene	6000	~~U~~ → "
117-81-7	Bis(2-ethylhexyl)phthalate	2400	U
117-84-0	Di-n-octylphthalate	2400	U
205-99-2	Benzo(b)fluoranthene	3400	D
207-08-9	Benzo(k)fluoranthene	4200	D
50-32-8	Benzo(a)pyrene	6300	~~U~~ → "
193-39-5	Indeno(1,2,3-cd)pyrene	3800	D
53-70-3	Dibenzo(a,h)anthracene	1400	DJ
191-24-2	Benzo(g,h,i)perylene	4600	D
58-90-2	2,3,4,6-Tetrachlorophenol	2400	U
92-87-5	Benzidine	2400	U
95-50-1	1,2-Dichlorobenzene	2400	U
106-46-7	1,4-Dichlorobenzene	2400	U
541-73-1	1,3-Dichlorobenzene	2400	U
62-75-9	N-Nitrosodimethylamine	2400	U
95-63-6	1,2,4-Trimethylbenzene	2400	U
108-67-8	1,3,5-Trimethylbenzene	2400	U

1 Cannot be separated from Diphenylamine

BREMERTON-012674

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K77DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.05DL2

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1342

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 100.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	15.00	3300	DJ
02	002381-21-7	Pyrene, 1-methyl-	16.22	2700	DNJ
03	1000151-80-0	Cycloisolongifolene, 8,9-dehy	16.88	5300	DNJ
04	000082-05-3	7H-Benz[de]anthracen-7-one	17.28	4800	DNJ
05		Unknown-02	17.48	3000	DJ
06		Unknown-03	17.54	2700	DJ
07	000205-99-2	Benz[e]acephenanthrylene	18.50	4800	DNJ
08		Unknown-04	18.70	2700	DJ
09	000192-97-2	Benzo[e]pyrene	18.75	4400	DNJ
10		Unknown-05	19.23	1700	DJ
11		Unknown-06	21.85	6100	DJ
12		Unknown-07	24.82	4300	DJ
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/16/08

1350

BREMERTON-012675

Do NOT Report

1D - FORM I SV-1 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K77RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.05RE

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1334

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	24	U
108-95-2	Phenol	24	U
111-44-4	Bis(2-chloroethyl)ether	24	U
95-57-8	2-Chlorophenol	24	U
95-48-7	2-Methylphenol	24	U
108-60-1	2,2'-Oxybis(1-chloropropane)	24	U
98-86-2	Acetophenone	24	U
106-44-5	4-Methylphenol	24	U
621-64-7	N-Nitroso-di-n-propylamine	24	U
67-72-1	Hexachloroethane	24	U
98-95-3	Nitrobenzene	24	U
78-59-1	Isophorone	24	U
88-75-5	2-Nitrophenol	24	U
105-67-9	2,4-Dimethylphenol	24	U
111-91-1	Bis(2-chloroethoxy)methane	24	U
120-83-2	2,4-Dichlorophenol	24	U
91-20-3	Naphthalene	310	
106-47-8	4-Chloroaniline	24	U
87-68-3	Hexachlorobutadiene	24	U
105-60-2	Caprolactam	24	U
59-50-7	4-Chloro-3-methylphenol	24	U
91-57-6	2-Methylnaphthalene	230	
77-47-4	Hexachlorocyclopentadiene	60	UJ
88-06-2	2,4,6-Trichlorophenol	24	U
95-95-4	2,4,5-Trichlorophenol	24	U
92-52-4	1,1'-Biphenyl	60	
91-58-7	2-Chloronaphthalene	24	U
88-74-4	2-Nitroaniline	48	U
131-11-3	Dimethylphthalate	24	U
606-20-2	2,6-Dinitrotoluene	24	U
208-96-8	Acenaphthylene	2000	E
99-09-2	3-Nitroaniline	48	U
83-32-9	Acenaphthene	100	
51-28-5	2,4-Dinitrophenol	120	UJ
100-02-7	4-Nitrophenol	48	UJ
132-64-9	Dibenzofuran	71	
121-14-2	2,4-Dinitrotoluene	24	U

BREMERTON-012676

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K77RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.05RE

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1334

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	24	U
86-73-7	Fluorene	980	E
7005-72-3	4-Chlorophenyl-phenylether	24	U
100-01-6	4-Nitroaniline	48	U
534-52-1	4,6-Dinitro-2-methylphenol	48	U
86-30-6	N-Nitrosodiphenylamine 1	24	U
95-94-3	1,2,4,5-Tetrachlorobenzene	24	U
101-55-3	4-Bromophenyl-phenylether	24	U
118-74-1	Hexachlorobenzene	24	U
1912-24-9	Atrazine	24	U
87-86-5	Pentachlorophenol	24	UJ
85-01-8	Phenanthrene	2900	E J
120-12-7	Anthracene	1100	E J
86-74-8	Carbazole	73	J
84-74-2	Di-n-butylphthalate	24	U
206-44-0	Fluoranthene	5000	E J
129-00-0	Pyrene	1700	E J
85-68-7	Butylbenzylphthalate	24	U
91-94-1	3,3'-Dichlorobenzidine	24	U
56-55-3	Benzo(a)anthracene	880	E J
218-01-9	Chrysene	920	E J
117-81-7	Bis(2-ethylhexyl)phthalate	61	
117-84-0	Di-n-octylphthalate	24	U
205-99-2	Benzo(b)fluoranthene	1400	E J
207-08-9	Benzo(k)fluoranthene	1200	E J
50-32-8	Benzo(a)pyrene	2300	E J
193-39-5	Indeno(1,2,3-cd)pyrene	1600	E J
53-70-3	Dibenzo(a,h)anthracene	570	E J
191-24-2	Benzo(g,h,i)perylene	1800	E J
58-90-2	2,3,4,6-Tetrachlorophenol	24	U
92-87-5	Benzidine	24	U
95-50-1	1,2-Dichlorobenzene	24	U
106-46-7	1,4-Dichlorobenzene	22	J
541-73-1	1,3-Dichlorobenzene	24	U
62-75-9	N-Nitrosodimethylamine	24	U
95-63-6	1,2,4-Trimethylbenzene	17	J
108-67-8	1,3,5-Trimethylbenzene	21	J

1 Cannot be separated from Diphenylamine

BREMERTON-012677

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K77RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.05RE

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G1334

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.05	130	J
02		Unknown-02	2.17	88	J
03		Unknown-03	2.97	140	J
04		Unknown-04	3.07	120	J
05		Unknown-05	5.37	53	J
06	000766-47-2	Benzene,1-ethynyl-2-methyl-	6.15	73	NJ
07		Unknown-06	6.94	47	J
08		Unknown-07	7.45	48	J
09		Unknown-08	7.96	58	J
10		Unknown-09	8.45	84	J
11		Unknown-10	8.52	52	J
12	000264-09-5	Benzocycloheptatriene	9.92	270	NJ
13		Unknown-11	10.11	280	J
14	000090-12-0	Naphthalene, 1-methyl-	10.25	230	NJ
15	000582-16-1	Naphthalene, 2,7-dimethyl-	11.47	98	NJ
16	000575-41-7	Naphthalene, 1,3-dimethyl-	11.65	140	NJ
17	000582-16-1	Naphthalene, 2,7-dimethyl-	11.68	69	NJ
18	000827-54-3	Naphthalene, 2-ethenyl-	11.75	130	NJ
19	000581-40-8	Naphthalene, 2,3-dimethyl-	11.86	75	NJ
20		Unknown-12	12.44	53	J
21	002245-38-7	Naphthalene, 1,6,7-trimethyl-	12.62	92	NJ
22	002131-42-2	Naphthalene, 1,4,6-trimethyl-	12.66	130	NJ
23	000829-26-5	Naphthalene, 2,3,6-trimethyl-	12.86	240	NJ
24		Unknown-13	12.86	42	J
25		Unknown-14	12.95	230	J
26		Unknown-15	13.18	110	J
27		Unknown-16	15.03	73	J
28	002381-21-7	Pyrene, 1-methyl-	16.26	42	NJ
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/16/08

1355

BREMERTON-012678

DO NOT REPORT

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K77

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.05

Sample wt/vol: 100.1 (g/mL) G Lab File ID: F26785

Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	380	E
91-57-6	2-Methylnaphthalene	380	E
208-96-8	Acenaphthylene	2100	E
83-32-9	Acenaphthene	88	E
86-73-7	Fluorene	780	E
87-86-5	Pentachlorophenol	47	E
85-01-8	Phenanthrene	15000	E
120-12-7	Anthracene	4400	E
206-44-0	Fluoranthene	17000	E
129-00-0	Pyrene	5600	E
56-55-3	Benzo(a)anthracene	4200	E
218-01-9	Chrysene	3100	E
205-99-2	Benzo(b)fluoranthene	1100	E
207-08-9	Benzo(k)fluoranthene	540	E
50-32-8	Benzo(a)pyrene	2000	E
193-39-5	Indeno(1,2,3-cd)pyrene	560	E
53-70-3	Dibenzo(a,h)anthracene	300	E
191-24-2	Benzo(g,h,i)perylene	550	E

[1] Cannot be separated from Diphenylamine

9/16/08

DO NOT REPORT

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K77DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.05DL

Sample wt/vol: 100.1 (g/mL) G Lab File ID: F26812

Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/28/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 10.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	450	DE
91-57-6	2-Methylnaphthalene	310	DE
208-96-8	Acenaphthylene	1500	DE
83-32-9	Acenaphthene	160	DE
86-73-7	Fluorene	1100	DE
87-86-5	Pentachlorophenol	30	D
85-01-8	Phenanthrene	9000	DE
120-12-7	Anthracene	2100	DE
206-44-0	Fluoranthene	11000	DE
129-00-0	Pyrene	16000	DE
56-55-3	Benzo(a)anthracene	6400	DE
218-01-9	Chrysene	7800	DE
205-99-2	Benzo(b)fluoranthene	1700	DE
207-08-9	Benzo(k)fluoranthene	1600	DE
50-32-8	Benzo(a)pyrene	3900	DE
193-39-5	Indeno(1,2,3-cd)pyrene	1000	DE
53-70-3	Dibenzo(a,h)anthracene	460	DE
191-24-2	Benzo(g,h,i)perylene	1000	DE

[1] Cannot be separated from Diphenylamine

9/16/08

Do NOT REPORT

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K77RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.05RE

Sample wt/vol: 100.1 (g/mL) G Lab File ID: F26790

Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	370	E
91-57-6	2-Methylnaphthalene	360	E
208-96-8	Acenaphthylene	3200	E
83-32-9	Acenaphthene	110	E
86-73-7	Fluorene	880	E
87-86-5	Pentachlorophenol	27	E
85-01-8	Phenanthrene	9800	E
120-12-7	Anthracene	2400	E
206-44-0	Fluoranthene	16000	E
129-00-0	Pyrene	7100	E
56-55-3	Benzo(a)anthracene	4100	E
218-01-9	Chrysene	3200	E
205-99-2	Benzo(b)fluoranthene	1500	E
207-08-9	Benzo(k)fluoranthene	550	E
50-32-8	Benzo(a)pyrene	2600	E
193-39-5	Indeno(1,2,3-cd)pyrene	710	E
53-70-3	Dibenzo(a,h)anthracene	320	E
191-24-2	Benzo(g,h,i)perylene	690	E

[1] Cannot be separated from Diphenylamine

9/16/08

BREMERTON-012681

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K78

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.06

Sample wt/vol: 4.300 (g/mL) G Lab File ID: B16919

Level: (TRACE/LOW/MED) LOW Date Received: 06/06/2008

% Moisture: not dec. 18 Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.4	U
74-87-3	Chloromethane	1.4	U
75-01-4	Vinyl chloride	1.4	U
74-83-9	Bromomethane	1.4	U
75-00-3	Chloroethane	1.4	U
75-69-4	Trichlorofluoromethane	1.4	UJ
75-35-4	1,1-Dichloroethene	1.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.4	U
67-64-1	Acetone	7.1	U
75-15-0	Carbon disulfide	1.4	U
79-20-9	Methyl acetate	1.4	U
75-09-2	Methylene chloride	1.4 ~~1.3~~	UB
156-60-5	trans-1,2-Dichloroethene	1.4	U
1634-04-4	Methyl tert-butyl ether	1.4	U
75-34-3	1,1-Dichloroethane	1.4	U
156-59-2	cis-1,2-Dichloroethene	1.4	U
78-93-3	2-Butanone	7.1	U
74-97-5	Bromochloromethane	1.4	U
67-66-3	Chloroform	1.4	U
71-55-6	1,1,1-Trichloroethane	1.4	U
110-82-7	Cyclohexane	1.4	U
56-23-5	Carbon tetrachloride	1.4	U
71-43-2	Benzene	1.4	U
107-06-2	1,2-Dichloroethane	1.4	U
123-91-1	1,4-Dioxane	140	U
79-01-6	Trichloroethene	1.4	U
108-87-2	Methylcyclohexane	1.4	U
78-87-5	1,2-Dichloropropane	1.4	U
75-27-4	Bromodichloromethane	1.4	U
10061-01-5	cis-1,3-Dichloropropene	1.4	U
108-10-1	4-Methyl-2-pentanone	7.1	U
108-88-3	Toluene	1.4	U
10061-02-6	trans-1,3-Dichloropropene	1.4	U
79-00-5	1,1,2-Trichloroethane	1.4	U

9/16/08

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K78

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.06

Sample wt/vol: 4.300 (g/mL) G Lab File ID: B16919

Level: (TRACE/LOW/MED) LOW Date Received: 06/06/2008

% Moisture: not dec. 18 Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.4	U
591-78-6	2-Hexanone	7.1	U
124-48-1	Dibromochloromethane	1.4	U
106-93-4	1,2-Dibromoethane	1.4	U
108-90-7	Chlorobenzene	1.4	U
100-41-4	Ethylbenzene	1.4	U
95-47-6	o-Xylene	1.4	U
179601-23-1	m,p-Xylene	1.4	U
100-42-5	Styrene	1.4	U
75-25-2	Bromoform	1.4	U
98-82-8	Isopropylbenzene	1.4	U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U
541-73-1	1,3-Dichlorobenzene	1.4	U
106-46-7	1,4-Dichlorobenzene	1.4	U
95-50-1	1,2-Dichlorobenzene	1.4	U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	U
120-82-1	1,2,4-Trichlorobenzene	7.1	U
87-61-6	1,2,3-Trichlorobenzene	7.1	U
87-68-3	Hexachlorobutadiene	1.4	U
67-72-1	Hexachloroethane	2.8	U
91-20-3	Naphthalene	1.4	U
630-20-6	1,1,1,2-Tetrachloroethane	1.4	U
96-18-4	1,2,3-Trichloropropane	1.4	U

9/16/08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K78

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.06

Sample wt/vol: 4.300 (g/mL) G Lab File ID: B16919

Level: (TRACE or LOW/MED) LOW Date Received: 06/06/2008

% Moisture: not dec. 18 Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.65	4.4	JN
02		Unknown-02	10.48	2.8	J
03		Unknown-03	11.14	8.9	J
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

9/16/08 0165

BREMERTON-012684

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K78

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.06

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G1321

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	19	J Q
108-95-2	Phenol	24	U
111-44-4	Bis(2-chloroethyl)ether	24	U
95-57-8	2-Chlorophenol	24	U
95-48-7	2-Methylphenol	24	U
108-60-1	2,2'-Oxybis(1-chloropropane)	24	U
98-86-2	Acetophenone	24	U
106-44-5	4-Methylphenol	24	U
621-64-7	N-Nitroso-di-n-propylamine	24	U
67-72-1	Hexachloroethane	24	U
98-95-3	Nitrobenzene	24	U
78-59-1	Isophorone	24	U
88-75-5	2-Nitrophenol	24	U
105-67-9	2,4-Dimethylphenol	24	U
111-91-1	Bis(2-chloroethoxy)methane	24	U
120-83-2	2,4-Dichlorophenol	24	U
91-20-3	Naphthalene	17	J Q
106-47-8	4-Chloroaniline	24	U
87-68-3	Hexachlorobutadiene	24	U
105-60-2	Caprolactam	24	U
59-50-7	4-Chloro-3-methylphenol	24	U
91-57-6	2-Methylnaphthalene	24	U
77-47-4	Hexachlorocyclopentadiene	61	UJ
88-06-2	2,4,6-Trichlorophenol	24	U
95-95-4	2,4,5-Trichlorophenol	24	U
92-52-4	1,1'-Biphenyl	24	U
91-58-7	2-Chloronaphthalene	24	U
88-74-4	2-Nitroaniline	49	U
131-11-3	Dimethylphthalate	24	U
606-20-2	2,6-Dinitrotoluene	24	U
208-96-8	Acenaphthylene	48	
99-09-2	3-Nitroaniline	49	U
83-32-9	Acenaphthene	24	U
51-28-5	2,4-Dinitrophenol	120	UJ
100-02-7	4-Nitrophenol	49	U
132-64-9	Dibenzofuran	24	U
121-14-2	2,4-Dinitrotoluene	24	U

BREMERTON-012685

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K78

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.06

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G1321

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	24	U
86-73-7	Fluorene	12	J Q
7005-72-3	4-Chlorophenyl-phenylether	24	U
100-01-6	4-Nitroaniline	49	U
534-52-1	4,6-Dinitro-2-methylphenol	49	U
86-30-6	N-Nitrosodiphenylamine 1	24	U
95-94-3	1,2,4,5-Tetrachlorobenzene	24	U
101-55-3	4-Bromophenyl-phenylether	24	U
118-74-1	Hexachlorobenzene	24	U
1912-24-9	Atrazine	24	U
87-86-5	Pentachlorophenol	35	J Q
85-01-8	Phenanthrene	140	
120-12-7	Anthracene	34	
86-74-8	Carbazole	24	U
84-74-2	Di-n-butylphthalate	24	U
206-44-0	Fluoranthene	440	E
129-00-0	Pyrene	600	E
85-68-7	Butylbenzylphthalate	24	U
91-94-1	3,3'-Dichlorobenzidine	24	U
56-55-3	Benzo(a)anthracene	160	
218-01-9	Chrysene	170	
117-81-7	Bis(2-ethylhexyl)phthalate	42	
117-84-0	Di-n-octylphthalate	24	U
205-99-2	Benzo(b)fluoranthene	130	
207-08-9	Benzo(k)fluoranthene	160	
50-32-8	Benzo(a)pyrene	260	
193-39-5	Indeno(1,2,3-cd)pyrene	150	
53-70-3	Dibenzo(a,h)anthracene	47	
191-24-2	Benzo(g,h,i)perylene	190	
58-90-2	2,3,4,6-Tetrachlorophenol	24	U
92-87-5	Benzidine	24	U
95-50-1	1,2-Dichlorobenzene	24	U
106-46-7	1,4-Dichlorobenzene	23	J Q
541-73-1	1,3-Dichlorobenzene	24	U
62-75-9	N-Nitrosodimethylamine	24	U
95-63-6	1,2,4-Trimethylbenzene	24	U
108-67-8	1,3,5-Trimethylbenzene	24	U

Report from J8K78DL (Fails.)

1 Cannot be separated from Diphenylamine

BREMERTON-012686

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K78

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.06

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G1321

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.41	130	JN
02		Unknown-02	2.97	150	J
03		Unknown-03	10.13	160	J
04	000143-07-7	Dodecanoic acid	12.81	130	NJ
05		Unknown-04	14.45	110	JN
06		Unknown-05	14.60	120	JN
07	000262-89-5	Dibenzo[a,e]cyclooctene	14.68	120	NJ
08	000610-48-0	Anthracene, 1-methyl-	14.91	250	NJ
09		Unknown-06	15.01	220	JN
10		Unknown-07	15.20	520	J
11		Unknown-08	15.41	240	J
12		Unknown-09	17.72	140	J
13		Unknown-10	19.71	110	J
14		Unknown-11	20.46	110	J
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/16/08

1423

BREMERTON-012687

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K78DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.06DL

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G1333

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 4.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	97	U
108-95-2	Phenol	97	U
111-44-4	Bis(2-chloroethyl)ether	97	U
95-57-8	2-Chlorophenol	97	U
95-48-7	2-Methylphenol	97	U
108-60-1	2,2'-Oxybis(1-chloropropane)	97	U
98-86-2	Acetophenone	97	U
106-44-5	4-Methylphenol	97	U
621-64-7	N-Nitroso-di-n-propylamine	97	U
67-72-1	Hexachloroethane	97	U
98-95-3	Nitrobenzene	97	U
78-59-1	Isophorone	97	U
88-75-5	2-Nitrophenol	97	U
105-67-9	2,4-Dimethylphenol	97	U
111-91-1	Bis(2-chloroethoxy)methane	97	U
120-83-2	2,4-Dichlorophenol	97	U
91-20-3	Naphthalene	97	U
106-47-8	4-Chloroaniline	97	U
87-68-3	Hexachlorobutadiene	97	U
105-60-2	Caprolactam	97	U
59-50-7	4-Chloro-3-methylphenol	97	U
91-57-6	2-Methylnaphthalene	97	U
77-47-4	Hexachlorocyclopentadiene	240	UJ
88-06-2	2,4,6-Trichlorophenol	97	U
95-95-4	2,4,5-Trichlorophenol	97	U
92-52-4	1,1'-Biphenyl	97	U
91-58-7	2-Chloronaphthalene	97	U
88-74-4	2-Nitroaniline	190	U
131-11-3	Dimethylphthalate	97	U
606-20-2	2,6-Dinitrotoluene	97	U
208-96-8	Acenaphthylene	97	U
99-09-2	3-Nitroaniline	190	U
83-32-9	Acenaphthene	97	U
51-28-5	2,4-Dinitrophenol	490	UJ
100-02-7	4-Nitrophenol	190	UJ
132-64-9	Dibenzofuran	97	U
121-14-2	2,4-Dinitrotoluene	97	U

BREMERTON-012688

1E - FORM I SV-2 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K78DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.06DL

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G1333

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 4.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	97	U
86-73-7	Fluorene	97	U
7005-72-3	4-Chlorophenyl-phenylether	97	U
100-01-6	4-Nitroaniline	190	U
534-52-1	4,6-Dinitro-2-methylphenol	190	U
86-30-6	N-Nitrosodiphenylamine 1	97	U
95-94-3	1,2,4,5-Tetrachlorobenzene	97	U
101-55-3	4-Bromophenyl-phenylether	97	U
118-74-1	Hexachlorobenzene	97	U
1912-24-9	Atrazine	97	U
87-86-5	Pentachlorophenol	97	UJ
85-01-8	Phenanthrene	130	D
120-12-7	Anthracene	97	U
86-74-8	Carbazole	97	U
84-74-2	Di-n-butylphthalate	97	U
206-44-0	Fluoranthene	400	~~D~~ → Report
129-00-0	Pyrene	500	~~D~~ → "
85-68-7	Butylbenzylphthalate	97	U
91-94-1	3,3'-Dichlorobenzidine	97	U
56-55-3	Benzo(a)anthracene	140	D
218-01-9	Chrysene	170	D
117-81-7	Bis(2-ethylhexyl)phthalate	97	U
117-84-0	Di-n-octylphthalate	97	U
205-99-2	Benzo(b)fluoranthene	110	D
207-08-9	Benzo(k)fluoranthene	130	D
50-32-8	Benzo(a)pyrene	200	D
193-39-5	Indeno(1,2,3-cd)pyrene	130	D
53-70-3	Dibenzo(a,h)anthracene	97	U
191-24-2	Benzo(g,h,i)perylene	190	D
58-90-2	2,3,4,6-Tetrachlorophenol	97	U
92-87-5	Benzidine	97	U
95-50-1	1,2-Dichlorobenzene	97	U
106-46-7	1,4-Dichlorobenzene	97	U
541-73-1	1,3-Dichlorobenzene	97	U
62-75-9	N-Nitrosodimethylamine	97	U
95-63-6	1,2,4-Trimethylbenzene	97	U
108-67-8	1,3,5-Trimethylbenzene	97	U

1 Cannot be separated from Diphenylamine

BREMERTON-012689

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K78DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.06DL

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G1333

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/27/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 4.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.17	140	DJB
02		Unknown-02	2.40	430	DJ
03		Unknown-03	2.77	270	DJ
04		Unknown-04	2.98	170	DJ
05		Unknown-05	7.74	69	DJ
06		Unknown-06	8.14	87	DJ
07		Unknown-07	8.45	100	DJ
08		Unknown-08	10.11	190	DJ
09		Unknown-09	15.00	96	DJ
10	003658-44-4	Dodecanoic acid, undecyl este	16.81	140	DNJ
11		Unknown-10	16.91	77	DJ
12		Unknown-11	17.78	95	DJ
13		Unknown-12	18.17	82	DJ
14		Unknown-13	18.50	140	DJ
15		Unknown-14	18.70	93	DJ
16		Unknown-15	19.07	87	DJ
17		Unknown-16	19.17	89	DJ
18		Unknown-17	19.67	100	DJ
19		Unknown-18	20.63	68	DJ
20		Unknown-19	21.84	74	DJ
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/16/08

BREMERTON-012690

Do NOT REPORT

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K78

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.06

Sample wt/vol: 100.3 (g/mL) G Lab File ID: F26786

Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/26/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	28	E
91-57-6	2-Methylnaphthalene	19	E
208-96-8	Acenaphthylene	230	E
83-32-9	Acenaphthene	15	E
86-73-7	Fluorene	13	E
87-86-5	Pentachlorophenol	34	E
85-01-8	Phenanthrene	430	E
120-12-7	Anthracene	140	E
206-44-0	Fluoranthene	900	E
129-00-0	Pyrene	1200	E
56-55-3	Benzo(a)anthracene	660	E
218-01-9	Chrysene	640	E
205-99-2	Benzo(b)fluoranthene	440	E
207-08-9	Benzo(k)fluoranthene	340	E
50-32-8	Benzo(a)pyrene	410	E
193-39-5	Indeno(1,2,3-cd)pyrene	360	E
53-70-3	Dibenzo(a,h)anthracene	150	E
191-24-2	Benzo(g,h,i)perylene	380	E

[1] Cannot be separated from Diphenylamine

9/16/08

BREMERTON-012691

Do NOT Report

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K78DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0962.06DL

Sample wt/vol: 100.3 (g/mL) G Lab File ID: F26813

Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 06/06/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 06/15/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/28/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 4.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	24	D
91-57-6	2-Methylnaphthalene	11	D
208-96-8	Acenaphthylene	120	DE
83-32-9	Acenaphthene	8.6	D
86-73-7	Fluorene	31	D
87-86-5	Pentachlorophenol	32	D
85-01-8	Phenanthrene	180	DE
120-12-7	Anthracene	77	DE
206-44-0	Fluoranthene	510	DE
129-00-0	Pyrene	440	DE
56-55-3	Benzo(a)anthracene	260	DE
218-01-9	Chrysene	370	DE
205-99-2	Benzo(b)fluoranthene	26	D
207-08-9	Benzo(k)fluoranthene	39	D
50-32-8	Benzo(a)pyrene	84	DE
193-39-5	Indeno(1,2,3-cd)pyrene	21	D
53-70-3	Dibenzo(a,h)anthracene	3.1	DJ
191-24-2	Benzo(g,h,i)perylene	20	D

Cannot be separated from Diphenylamine

9/16/08

SOM01.2 (6/2007)

2813

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K92

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0962.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14719

Level: (TRACE/LOW/MED) TRACE Date Received: 06/06/2008

% Moisture: not dec. _____ Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.25	U
74-87-3	Chloromethane	0.25	U
75-01-4	Vinyl chloride	0.25	U
74-83-9	Bromomethane	0.25	UJ
75-00-3	Chloroethane	0.25	UJ
75-69-4	Trichlorofluoromethane	0.25	U
75-35-4	1,1-Dichloroethene	0.25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.25	U
79-20-9	Methyl acetate	0.25	U
75-09-2	Methylene chloride	0.25	UJ
156-60-5	trans-1,2-Dichloroethene	0.25	U
1634-04-4	Methyl tert-butyl ether	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U
156-59-2	cis-1,2-Dichloroethene	0.25	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.25	U
67-66-3	Chloroform	0.25	U
71-55-6	1,1,1-Trichloroethane	0.25	U
110-82-7	Cyclohexane	0.25	U
56-23-5	Carbon tetrachloride	0.25	U
71-43-2	Benzene	0.25	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
108-87-2	Methylcyclohexane	0.25	UJ
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U

9/16/08

0175

BREMERTON-012693

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K92

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0962.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14719

Level: (TRACE/LOW/MED) TRACE Date Received: 06/06/2008

% Moisture: not dec. _____ Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	0.25	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.25	U
106-93-4	1,2-Dibromoethane	0.25	U
108-90-7	Chlorobenzene	0.25	U
100-41-4	Ethylbenzene	0.25	U
95-47-6	o-Xylene	0.25	U
179601-23-1	m,p-Xylene	0.25	U
100-42-5	Styrene	0.25	U
75-25-2	Bromoform	0.25	U
98-82-8	Isopropylbenzene	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-chloropropane	0.25	UJ
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.25	U
67-72-1	Hexachloroethane	1.0	U
91-20-3	Naphthalene	0.25	U
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
96-18-4	1,2,3-Trichloropropane	0.25	U

9/16/08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K92

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K92

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0962.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14719

Level: (TRACE or LOW/MED) TRACE Date Received: 06/06/2008

% Moisture: not dec. _____ Date Analyzed: 06/16/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.84	2.5	JN
02		Unknown-02	13.37	1.9	JN
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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18					
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22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

9/16/08

BREMERTON-012695

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: August 21, 2008

TO: Renee Nordeen, START-3 Project Manager, E & E, Seattle, WA

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Summary Check,**
Bremerton Gasworks Properties, Bremerton, Washington

REF: TDD: 07-01-0008 PAN: 002233.0178.01BR

The data summary check of 16 water samples collected from the Bremerton Gasworks Properties site located in Bremerton, Washington, has been completed. Analysis for organics (EPA CLP SOW SOM01.2) was performed by KAP Technologies, Inc., The Woodlands, Texas.

The samples were numbered:

J8K21	J8K22	J8K36	J8K43	J8K50
J8K51	J8K52	J8K53	J8K60	J8K67
J8K85	J8K86	J8K87	J8K88	J8K89
J8K90				

No discrepancies were noted. The secondary reviewer added "Q" bias qualifiers to positive results less than the Contract Required Quantitation Limit.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, Washington 98101

August 14, 2008

Reply to
Attn of: OEA-095

MEMORANDUM

Subject: Data Review Report for the Volatile, Semi-Volatile Organic (SVOC / SIM) Analyses of Samples collected from the Bremerton Gasworks Brownfield Site
Case: 37435 SDGs: J8K50

From: Raymond Wu, Chemist
Office of Environmental Assessment 8/14/08

To: Joanne LaBaw, Site Assessment Manager
Office of Environmental Cleanup

CC: Renee Nordeen, Project Manager
Ecology and Environment, Inc.

The quality assurance (QA) review of the analytical data generated from the analysis of 16 water samples collected from the above referenced site has been completed. Samples were analyzed for Volatile, Semi-Volatile (SVOC/SIM) in accordance with the USEPA Contract Laboratory Program (CLP) Statement of Work (SOW) for Organic Analyses (SOM01.2) by KAP Technologies, Inc. in The Woodlands, Texas. The following samples were evaluated in this validation report:

SDG: J8K50

J8K21	J8K22	J8K36	J8K43	J8K50	J8K51	J8K52
J8K53	J8K60	J8K67	J8K85*	J8K86*	J8K87*	J8K88*
J8K89*	J8K90*					

(* Volatile analyses ONLY)

DATA QUALIFICATIONS

The following comments refer to the laboratory performance in meeting the Quality Control specifications outlined in the Sampling and Quality Assurance Plan July 1, 2008, prepared by Ecology and Environment, USEPA CLP SOW for Organic Analysis (SOM01.2, 05/2008), and the applicable criteria set forth in the USEPA Contract Laboratory Program's National Functional Guidelines for Organic Data Review (07/2007). The data reviews conducted on these analyses were based on the QC Forms and Sample Data Summary Forms submitted by the laboratories. Review of the raw data of the analyses was not conducted. The conclusions presented herein are based on the information provided for the review.

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Please note:

1) The original Chain of custody forms had some inconsistencies (eg. sampling date and time, missing preservation information) & they were later reconciled by the sampling contractor. Clarifications were received as emails from the sampling contractor.
2) Sample results are reported from Full Scan, Full Scan Dilution, SIM, SIM Dilution, or combination of some of the above.

The samples were evaluated based on the following QC elements:

$ Holding Time
$ Method and Trip Blanks
$ Initial and Continuing Calibration
$ Surrogate Recoveries
$ Lab Control Spike Recovery
$ Target Compound and Reporting Limits
$ GC/MS Spectra Matching Criteria

Overall Assessment

All of the samples met the technical acceptance criteria for each of the QC elements listed above with the exception of the following:

Three volatile samples (J8K21, J8K53 & J8K67) were analyzed out of the 14 day holding time whereas one semi-volatile sample (J8K21) was extracted out of the 7 day holding time. As the result, sample results for those were qualified J/UJ.

Three ICALs (one VOC, one SVOC & one SIM) were evaluated in this report. They met the technical acceptance criteria for the percent relative standard deviations (%RSDs) and the minimum relative response factors (RRFs) for all target compounds and surrogates with the exception of the following:

$ The %RSD of Naphthalene (38.1%) in the VOC initial calibration exceeded the control limit of 30%. Recalculation of the %RSDs indicated that it was not linear at the low end of the curve and the corresponding samples would be J/UJ qualified for this analyte.

$ The %RSD of 4,6-Dinitro-2-Methylphenol (39.2%) and Pentachlorophenol (32.9%) in the SVOC initial calibration exceeded the control limit of 30%. Recalculation of the %RSDs indicated that they were not linear at the high end of the curve and the corresponding samples would be J/None qualified for those analytes.

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$ All of the CCV checks met the criteria for frequency of analysis, the SOW specified, minimum RRFs and %Ds as compared to the initial calibration with the exception of the following:

"VOC"

Date/Time of Analysis/ Inst.	Compound	%D	Qualifier Detect/Non-detect	Associated Samples
05/24/08 09:56 A-5973 (opening ccv)	Methylene Chloride	-38.8	J/UJ	J8K22, J8K43, J8K50, J8K51, J8K60, J8K85, J8K86 -> J8K88
5/30/08 09:48 A-5973 (opening ccv)	Dichlorodifluoromethane	30.0	J/None	J8K21, J8K21DL J8K36, J8K90
	1,1,2-Trichloro-1,2,2-trifluoroethane	27.0	J/None	"
	1,1-Dichloroethane	27.1	J/None	"
	Carbon Tetrachloride	32.0	J/None	"
	Bromodichloromethane	27.1	J/None	"
	Naphthalene	-28.6	J/UJ	"

"SVOC"

Date/Time of Analysis/ Inst.	Compound	%D	Qualifier Detect/Non-detect	Associated Samples
06/06/08 22:46 G-5973 (opening ccv)	1,2-Dichlorobenzene	-27.6	J/UJ	J8K21, J8K22, J8K43, J8K50, J8K51 -> J8K53 J8K60, J8K67

"SIM"

Date/Time of Analysis/ Inst.	Compound	%D	Qualifier Detect/Non-detect	Associated Samples
06/10/08 23:44 G-5973 (opening ccv)	Pentachlorophenol	33.1	J/None	J8K21, J8K43, J8K43DL, J8K52 J8K51DL J8K53, J8K53DL J8K60

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VOC DMCs (Water)	Recovery Limits (%)	VOC DMCs (Water)	Recovery Limits (%)
Vinyl Chloride-d3 (VCL)	65-131	1,2-Dichloropropane-d6 (DPA)	79-124
Chloroethane-d5 (CLA)	71-131	Toluene-d8 (TOL)	77-121
1,1-Dichloroethene-d2 (DCE)	55-104	Trans-1,3-Dichloropropene-d4 (TDP)	73-121
2-Butanone-d5 (BUT)	49-155	2-Hexanone-d5 (HEX)	28-135
Chloroform-d (CLF)	78-121	1,4-Dioxane-d8^ (DXE)	50-150
1,2-Dichloroethane-d4 (DCA)	78-129	1,1,2,2-Tetrachloroethane-d2 (TCA)	73-125
Benzene-d6 (BEN)	77-124	1,2-Dichlorobenzene-d4 (DCZ)	80-131

Note: ^ it was not added or calibrated by the contract laboratories

All of the volatile surrogate recoveries met the applicable recovery criteria with exception of the following:

"VOC"

Sample	**DMC**	**%Recovery**	**Qualification Detects/Non-detects**	**Associated VOCs**
J8K21	VCL	134	J/None	Vinyl Chloride
J8K36	CLA	142	J/None	Dichlorodifluoromethane, Chloromethane, Bromomethane, Chloroethane, Carbon Disulfide
	CLF	132	J/None	1,1-Dichloroethane, Bromochloromethane, Chloroform, Dibromochloromethane, Bromoform
	DCA	132	J/None	Trichlorofluoromethane, 1,1-Dichloroethene, 1,1,2-1,2,2-trifluoroethane, Methyl acetate, Methylene Chloride, Methyl-tert-butyl ether, 1,1,1-Trichloroethane, Carbon tetrachloride, 1,2-Dibromoethane, 1,2-Dichloroethane
J8K53	CLA	133	J/None	Dichlorodifluoromethane, Chloromethane, Bromomethane, Chloroethane, Carbon Disulfide
	CLF	126	J/None	1,1-Dichloroethane, Bromochloromethane, Chloroform, Dibromochloromethane, Bromoform

J8K67	TDP	70	J/UJ	Cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane
J8K89	CLA	138	J/None	Dichlorodifluoromethane, Chloromethane, Bromomethane, Chloroethane, Carbon Disulfide
	CLF	132	J/None	1,1-Dichloroethane, Bromochloromethane, Chloroform, Dibromochloromethane, Bromoform
	DCA	133	J/None	Trichlorofluoromethane, 1,1-Dichloroethene, 1,1,2-1,2,2-trifluoroethane, Methyl acetate, Methylene Chloride, Methyl-tert-butyl ether, 1,1,1-Trichloroethane, Carbon tetrachloride, 1,2-Dibromoethane, 1,2-Dichloroethane
J8K90	CLA	141	J/None	Dichlorodifluoromethane, Chloromethane, Bromomethane, Chloroethane, Carbon Disulfide
	CLF	140	J/None	1,1-Dichloroethane, Bromochloromethane, Chloroform, Dibromochloromethane, Bromoform
	DCA	146	J/None	Trichlorofluoromethane, 1,1-Dichloroethene, 1,1,2-1,2,2-trifluoroethane, Methyl acetate, Methylene Chloride, Methyl-tert-butyl ether, 1,1,1-Trichloroethane, Carbon tetrachloride, 1,2-Dibromoethane, 1,2-Dichloroethane

"SVOC"

SVOC DMCs (Water)	Recovery Limits (%)	SVOC DMCs (Water)	Recovery Limits (%)
Phenol-d5 (PHL)	39-106	Dimethylphthalate-d6 (DMP)	47-114
Bis-(2-chloroethyl) ether-d8 (BCE)	40-105	Acenapthylene-d8 (ACY)	41-107
2-chlorophenol-d4 (2CP)	41-106	4-Nitrophenol-d4 (4NP)	33-116
4-Methylphenol-d8 (4MP)	25-111	Fluorene-d10 (FLR)	42-111
Nitrobenzene-d5 (NBZ)	43-108	4,6-Dinitro-2-methylphenol-d2 (NMP)	22-104
2-Nitrophenol-d4 (2NP)	40-108	Anthracene-d10 (ANC)	44-110
2,4-Dichlorophenol-d3 (DCP)	37-105	Pyrene-d10 (PYR)	52-119
4-chloroaniline-d4 (4CA)	1-145	Benzo(a)pyrene-d12 (BAP)	32-121
Fluoranthene-d10 (FLN)#	50-150	2-Methylnapthalene-d10 (2MN)#	50-150

# denotes SVOC-SIM surrogates

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All of the semi-volatile surrogate recoveries met the applicable recovery criteria with exception of the following:

Sample	DMC	%Recovery	Qualification Detects/Non-detects	Associated SVOCs
J8K21	NMP	111	J/None	4,6-Dinitro-2-methylphenol
J8K43	NMP	112	J/None	"
J8K52	NMP	115	J/None	"
J8K67	BCE	111	J/None	Bis-(2-Chloroethyl) ether, 2,2'-oxybis(1-Chloropropane), bis(2-Chloroethoxy) methane
	NMP	119	J/None	4,6-Dinitro-2-methylphenol

"SVOC – SIM"

Sample	DMC	%Recovery	Qualification Detects/Non-detects	Associated SVOCs
J8K67	2MN	45	J/UJ	Naphthalene, 2-Methylnaphthalene, Acenapthylene, Acenaphthene, Fluorene, Pentachlorophenol, Phenanthrene, Anthracene

Internal Standards

The acceptance criteria for internal standards (IS) are +/- 30 seconds for retention time (RT) shifts and -50% to 100% of the IS area as compared to the IS RT and area of the daily continuing calibration standard. All of the results met the IS area and RT shift criteria with exceptions of the following:

SIM

- J8K67 - Internal Standard #2 & #6 were higher than the QC limits

The corresponding compounds were qualified as J/None. They are as follows:

- For Internal Standard #2 (Naphthalene-d8)
  2-Methylnaphthalene, Naphthalene

- For Internal Standard #6 (Perylene-d12)
  Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

The PAH data were reported for different samples as seen in the tables below:

Compound	J8K21	J8K22	J8K43	J8K50	J8K51	J8K52	J8K53	J8K60	J8K67
Naphthalene	SIM+	SIM	Full S.	SIM	Full S.	SIM+	SIM	SIM	Full D2
2-Methylnaphthalene	SIM+	SIM	SIM	SIM	SIM+	SIM	SIM	SIM	Full D.
Acenaphthylene	SIM	SIM	Full S.	SIM	SIM	SIM	SIM	SIM	Full S.
Acenaphthene	SIM+	SIM	Full S.	SIM	SIM	SIM	SIM	SIM	Full D.
Fluorene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full S.
Pentachlorophenol	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Phenanthrene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full S.
Anthracene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full D.
Fluoranthene	SIM	SIM	SIM	SIM	SIM	SIM	SIM+	SIM	Full D.
Pyrene	SIM	SIM	SIM	SIM	SIM	SIM	SIM+	SIM	Full S.
Benzo(a)anthracene	SIM	SIM	SIM	SIM	SIM	SIM	SIM+	SIM	SIM+
Chrysene	SIM	SIM	SIM	SIM	SIM	SIM	SIM+	SIM	SIM+
Benzo(b)fluoranthene	SIM	SIM	SIM	SIM	SIM	SIM	SIM+	SIM	SIM
Benzo(k)fluoranthene	SIM	SIM	SIM	SIM	SIM	SIM	SIM+	SIM	SIM
Benzo(a)pyrene	SIM	SIM	SIM	SIM	SIM	SIM	SIM+	SIM	SIM
Indeno(1,2,3-cd)pyrene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Dibenzo(a,h)anthracene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Benzo(g,h,i)perylene	SIM	SIM	SIM	SIM	SIM	SIM	SIM+	SIM	SIM

The rest of the SVOC data was obtained through full scan runs.
(Note: + indicates the results reported from "**SIM Dilution Runs**";
Full S. indicates the results reported from **"Full Scan Runs"**;
Full D. indicates the results reported from **"Full Scan Dilutions"**
Full D2 indicates the results reported from "**Full Scan Dilution #2**").

The data, as qualified, can be used for all purposes.

Data Qualifiers		
	U	The analyte was not detected at or above the reported result.
	J	The analyte was positively identified. The associated numerical result is an estimate.
	UJ	The analyte was not detected at or above the reported estimated result. The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.
	R	The data are unusable for all purposes.
	N	There is evidence the analyte is present in this sample.
	JN	There is evidence that the analyte is present. The associated numerical result is an estimate.

Report

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K21

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0920.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14424

Level: (TRACE/LOW/MED) TRACE Date Received: 05/21/2008

% Moisture: not dec. _____ Date Analyzed: 05/30/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 4.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1.0	UJ
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	UL
67-64-1	Acetone	13	J Q
75-15-0	Carbon disulfide	1.0	UJ
79-20-9	Methyl acetate	1.0	U
75-09-2	Methylene chloride	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	20	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
110-82-7	Cyclohexane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	5.8	
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
108-87-2	Methylcyclohexane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	20	U
108-88-3	Toluene	1.5	
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	UL

7/31/08

SOM01.2 (6/2007)

00032

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K21

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0920.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14424

Level: (TRACE/LOW/MED) TRACE Date Received: 05/21/2008

% Moisture: not dec. _____ Date Analyzed: 05/30/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 4.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	1.0	UJ
591-78-6	2-Hexanone	20	U
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	2.0	
95-47-6	o-Xylene	1.4	L
179601-23-1	m,p-Xylene	0.92	J
100-42-5	Styrene	1.0	UJ
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	2.0	U
87-61-6	1,2,3-Trichlorobenzene	2.0	U
87-68-3	Hexachlorobutadiene	1.0	U
67-72-1	Hexachloroethane	4.0	U
91-20-3	Naphthalene	28	J
630-20-6	1,1,1,2-Tetrachloroethane	1.0	UJ
96-18-4	1,2,3-Trichloropropane	1.0	UJ

7/31/08

BREMERTON-012706

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K21

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0920.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14424

Level: (TRACE or LOW/MED) TRACE Date Received: 05/21/2008

% Moisture: not dec. _____ Date Analyzed: 05/30/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 4.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.86	9.6	JN
02	000496-11-7	Indane	18.06	6.9	NJ
03	000095-13-6	Indene	18.65	9.6	NJ
04					
05					
06					
07					
08					
09					
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11					
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25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

7/31/08

BREMERTON-012707

Do NOT REPORT

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K21DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0920.01DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14423

Level: (TRACE/LOW/MED) TRACE Date Received: 05/21/2008

% Moisture: not dec. _____ Date Analyzed: 05/30/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	2.5	U
74-87-3	Chloromethane	2.5	U
75-01-4	Vinyl chloride	2.5	U
74-83-9	Bromomethane	2.5	U
75-00-3	Chloroethane	2.5	U
75-69-4	Trichlorofluoromethane	2.5	U
75-35-4	1,1-Dichloroethene	2.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.5	U
67-64-1	Acetone	50	U
75-15-0	Carbon disulfide	2.5	U
79-20-9	Methyl acetate	2.5	U
75-09-2	Methylene chloride	2.5	U
156-60-5	trans-1,2-Dichloroethene	2.5	U
1634-04-4	Methyl tert-butyl ether	2.5	U
75-34-3	1,1-Dichloroethane	2.5	U
156-59-2	cis-1,2-Dichloroethene	2.5	U
78-93-3	2-Butanone	50	U
74-97-5	Bromochloromethane	2.5	U
67-66-3	Chloroform	2.5	U
71-55-6	1,1,1-Trichloroethane	2.5	U
110-82-7	Cyclohexane	2.5	U
56-23-5	Carbon tetrachloride	2.5	U
71-43-2	Benzene	5.0	D
107-06-2	1,2-Dichloroethane	2.5	U
79-01-6	Trichloroethene	2.5	U
108-87-2	Methylcyclohexane	2.5	U
78-87-5	1,2-Dichloropropane	2.5	U
75-27-4	Bromodichloromethane	2.5	U
10061-01-5	cis-1,3-Dichloropropene	2.5	U
108-10-1	4-Methyl-2-pentanone	50	U
108-88-3	Toluene	2.5	U
10061-02-6	trans-1,3-Dichloropropene	2.5	U
79-00-5	1,1,2-Trichloroethane	2.5	U

7/31/08

SOM01.2 (6/2007)

BREMERTON-012708

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K21DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0920.01DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14423

Level: (TRACE/LOW/MED) TRACE Date Received: 05/21/2008

% Moisture: not dec. _____ Date Analyzed: 05/30/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	2.5	U
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	2.5	U
106-93-4	1,2-Dibromoethane	2.5	U
108-90-7	Chlorobenzene	2.5	U
100-41-4	Ethylbenzene	1.7	DJ
95-47-6	o-Xylene	2.5	U
179601-23-1	m,p-Xylene	2.5	U
100-42-5	Styrene	2.5	U
75-25-2	Bromoform	2.5	U
98-82-8	Isopropylbenzene	2.5	U
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U
541-73-1	1,3-Dichlorobenzene	2.5	U
106-46-7	1,4-Dichlorobenzene	2.5	U
95-50-1	1,2-Dichlorobenzene	2.5	U
96-12-8	1,2-Dibromo-3-chloropropane	2.5	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	2.5	U
67-72-1	Hexachloroethane	10	U
91-20-3	Naphthalene	33	J Ø
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U
96-18-4	1,2,3-Trichloropropane	2.5	U

8 7/31/08

BREMERTON-012709

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K21DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0920.01DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14423

Level: (TRACE or LOW/MED) TRACE Date Received: 05/21/2008

% Moisture: not dec. _____ Date Analyzed: 05/30/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.86	18	DJ
02		Unknown-02	18.21	6.3	DJ
03	000095-13-6	Indene	18.65	8.2	DNJ
04					
05					
06					
07					
08					
09					
10					
11					
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16					
17					
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19					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

7/31/08

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K21

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0920.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0668

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	0.50	UJ
108-95-2	Phenol	0.50	U
111-44-4	Bis(2-chloroethyl)ether	0.50	U
95-57-8	2-Chlorophenol	0.50	U
95-48-7	2-Methylphenol	0.50	U
108-60-1	2,2'-Oxybis(1-chloropropane)	0.50	U
98-86-2	Acetophenone	0.50	U
106-44-5	4-Methylphenol	0.50	U
621-64-7	N-Nitroso-di-n-propylamine	0.50	U
67-72-1	Hexachloroethane	0.50	U
98-95-3	Nitrobenzene	0.50	U
78-59-1	Isophorone	0.50	U
88-75-5	2-Nitrophenol	0.50	U
105-67-9	2,4-Dimethylphenol	1.3	
111-91-1	Bis(2-chloroethoxy)methane	0.50	U
120-83-2	2,4-Dichlorophenol	0.50	U
91-20-3	Naphthalene	1.5	
106-47-8	4-Chloroaniline	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
105-60-2	Caprolactam	0.50	U
59-50-7	4-Chloro-3-methylphenol	0.50	U
91-57-6	2-Methylnaphthalene	0.36	J
77-47-4	Hexachlorocyclopentadiene	0.50	UJ
88-06-2	2,4,6-Trichlorophenol	0.50	U
95-95-4	2,4,5-Trichlorophenol	0.50	U
92-52-4	1,1'-Biphenyl	0.50	U
91-58-7	2-Chloronaphthalene	0.50	U
88-74-4	2-Nitroaniline	1.0	U
131-11-3	Dimethylphthalate	0.50	U
606-20-2	2,6-Dinitrotoluene	0.50	U
208-96-8	Acenaphthylene	0.50	U
99-09-2	3-Nitroaniline	1.0	U
83-32-9	Acenaphthene	0.29	J
51-28-5	2,4-Dinitrophenol	2.5	UJ
100-02-7	4-Nitrophenol	1.0	U
132-64-9	Dibenzofuran	0.50	U
121-14-2	2,4-Dinitrotoluene	0.50	U

8/13/08

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K21

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0920.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0668

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	0.71	J
86-73-7	Fluorene	0.50	U
7005-72-3	4-Chlorophenyl-phenylether	0.50	U
100-01-6	4-Nitroaniline	1.0	U
534-52-1	4,6-Dinitro-2-methylphenol	1.0	U
86-30-6	N-Nitrosodiphenylamine 1	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.50	U
101-55-3	4-Bromophenyl-phenylether	0.50	U
118-74-1	Hexachlorobenzene	0.50	U
1912-24-9	Atrazine	0.50	U
87-86-5	Pentachlorophenol	0.50	U
85-01-8	Phenanthrene	0.50	U
120-12-7	Anthracene	0.50	U
86-74-8	Carbazole	0.50	U
84-74-2	Di-n-butylphthalate	0.50	U
206-44-0	Fluoranthene	0.50	U
129-00-0	Pyrene	0.50	U
85-68-7	Butylbenzylphthalate	0.67	
91-94-1	3,3'-Dichlorobenzidine	0.50	U
56-55-3	Benzo(a)anthracene	0.50	U
218-01-9	Chrysene	0.50	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.2	
117-84-0	Di-n-octylphthalate	0.50	U
205-99-2	Benzo(b)fluoranthene	0.50	U
207-08-9	Benzo(k)fluoranthene	0.50	U
50-32-8	Benzo(a)pyrene	0.50	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.50	U
53-70-3	Dibenzo(a,h)anthracene	0.50	U
191-24-2	Benzo(g,h,i)perylene	0.50	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.50	U
92-87-5	Benzidine	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
62-75-9	N-Nitrosodimethylamine	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U

1 Cannot be separated from Diphenylamine

8/13/08

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K21

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0920.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0668

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.4 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.34	2.3	JBN
02		Unknown-02	2.77	4.4	J
03		Unknown-03	3.18	4.3	J
04	000673-32-5	Benzene, 1-propynyl-	6.40	2.1	NJ
05		Unknown-04	13.54	2.3	JN
06		Unknown-05	14.38	3.5	J
07		Unknown-06	14.75	3.3	J
08		Unknown-07	15.17	2.8	J
09		Unknown-08	15.30	6.6	J
10		Unknown-09	15.33	5.8	J
11		Unknown-10	15.47	57	J
12		Unknown-11	15.65	2.0	J
13		Unknown-12	16.25	3.9	J
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/13/08

Repeat All PAH's except Naphthalene, 2-Methylnaphthalene & Acenaphthene

1F - FORM I SV-SIM
SEMIVCLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K21

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0920.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0791

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) N pH: 5.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	3.3	E → Report from J8K21 (SIM)
91-57-6	2-Methylnaphthalene	0.91	E → " "
208-96-8	Acenaphthylene	0.36	J
83-32-9	Acenaphthene	0.61	E → "
86-73-7	Fluorene	0.20	J
87-86-5	Pentachlorophenol	0.10	UJ
85-01-8	Phenanthrene	0.33	J
120-12-7	Anthracene	0.053	
206-44-0	Fluoranthene	0.068	
129-00-0	Pyrene	0.14	
56-55-3	Benzo(a)anthracene	0.031	J Q
218-01-9	Chrysene	0.040	J Q
205-99-2	Benzo(b)fluoranthene	0.050	UJ
207-08-9	Benzo(k)fluoranthene	0.050	U
50-32-8	Benzo(a)pyrene	0.050	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.050	U
53-70-3	Dibenzo(a,h)anthracene	0.050	UL
191-24-2	Benzo(g,h,i)perylene	0.028	J Q

1 Cannot be separated from Diphenylamine

8/13/08

01231

Repeat Only Naphthalene, 2-Methylnaphthalene & Acenaphthene

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K21DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.:37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0920.01DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0807

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) N pH: 5.4 Dilution Factor: 10.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)UG/L	Q
91-20-3	Naphthalene	3.0	J P → Report
91-57-6	2-Methylnaphthalene	0.57	J P → "
208-96-8	Acenaphthylene	0.50	U
83-32-9	Acenaphthene	0.66	J P → "
86-73-7	Fluorene	0.50	U
87-86-5	Pentachlorophenol	1.0	U
85-01-8	Phenanthrene	0.40	DJ
120-12-7	Anthracene	0.50	U
206-44-0	Fluoranthene	0.50	U
129-00-0	Pyrene	0.50	DJ
56-55-3	Benzo(a)anthracene	0.50	U
218-01-9	Chrysene	0.50	U
205-99-2	Benzo(b)fluoranthene	0.50	U
207-08-9	Benzo(k)fluoranthene	0.50	U
50-32-8	Benzo(a)pyrene	0.50	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.50	U
53-70-3	Dibenzo(a,h)anthracene	0.50	U
191-24-2	Benzo(g,h,i)perylene	0.50	U

1 Cannot be separated from Diphenylamine

8/13/08

SOM01.2 (6/2007)

01245

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K22

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0908.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14216

Level: (TRACE/LOW/MED) TRACE Date Received: 05/16/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.25	U
74-87-3	Chloromethane	0.25	U
75-01-4	Vinyl chloride	0.25	U
74-83-9	Bromomethane	0.25	U
75-00-3	Chloroethane	0.25	U
75-69-4	Trichlorofluoromethane	0.25	U
75-35-4	1,1-Dichloroethene	0.25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U
67-64-1	Acetone	3.9	J Q
75-15-0	Carbon disulfide	0.25	U
79-20-9	Methyl acetate	0.25	U
75-09-2	Methylene chloride	0.25	U J
156-60-5	trans-1,2-Dichloroethene	0.25	U
1634-04-4	Methyl tert-butyl ether	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U
156-59-2	cis-1,2-Dichloroethene	0.25	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.25	U
67-66-3	Chloroform	0.25	U
71-55-6	1,1,1-Trichloroethane	0.25	U
110-82-7	Cyclohexane	0.25	U
56-23-5	Carbon tetrachloride	0.25	U
71-43-2	Benzene	5.4	
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
108-87-2	Methylcyclohexane	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U

7/31/08

JOM01.2 (6/2007) 00066

BREMERTON-012716

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K22

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0908.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14216

Level: (TRACE/LOW/MED) TRACE Date Received: 05/16/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	0.25	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.25	U
106-93-4	1,2-Dibromoethane	0.25	U
108-90-7	Chlorobenzene	0.25	U
100-41-4	Ethylbenzene	0.25	U
95-47-6	o-Xylene	0.25	U
179601-23-1	m,p-Xylene	0.25	U
100-42-5	Styrene	0.25	U
75-25-2	Bromoform	0.25	U
98-82-8	Isopropylbenzene	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.25	U
67-72-1	Hexachloroethane	1.0	U
91-20-3	Naphthalene	0.25 ~~0.35~~	~~J~~ U
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
96-18-4	1,2,3-Trichloropropane	0.25	U

7/31/08

BREMERTON-012717

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K22

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0908.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14216

Level: (TRACE or LOW/MED) TRACE Date Received: 05/16/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.87	1.9	JBN
02		Unknown-02	22.34	0.50	JN
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A		

1 EPA-designated Registry Number.

7/31/08

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K22

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0908.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0661

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/16/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	0.50	U
108-95-2	Phenol	0.50	U
111-44-4	Bis(2-chloroethyl)ether	0.50	U
95-57-8	2-Chlorophenol	0.50	U
95-48-7	2-Methylphenol	0.50	U
108-60-1	2,2'-Oxybis(1-chloropropane)	0.50	U
98-86-2	Acetophenone	0.50	U
106-44-5	4-Methylphenol	0.50	U
621-64-7	N-Nitroso-di-n-propylamine	0.50	U
67-72-1	Hexachloroethane	0.50	U
98-95-3	Nitrobenzene	0.50	U
78-59-1	Isophorone	0.50	U
88-75-5	2-Nitrophenol	0.50	U
105-67-9	2,4-Dimethylphenol	0.50	U
111-91-1	Bis(2-chloroethoxy)methane	0.50	U
120-83-2	2,4-Dichlorophenol	0.50	U
91-20-3	Naphthalene	0.50	U
106-47-8	4-Chloroaniline	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
105-60-2	Caprolactam	6.3	
59-50-7	4-Chloro-3-methylphenol	0.50	U
91-57-6	2-Methylnaphthalene	0.50	U
77-47-4	Hexachlorocyclopentadiene	0.50	U
88-06-2	2,4,6-Trichlorophenol	0.50	U
95-95-4	2,4,5-Trichlorophenol	0.50	U
92-52-4	1,1'-Biphenyl	0.50	U
91-58-7	2-Chloronaphthalene	0.50	U
88-74-4	2-Nitroaniline	1.0	U
131-11-3	Dimethylphthalate	0.50	U
606-20-2	2,6-Dinitrotoluene	0.50	U
208-96-8	Acenaphthylene	0.50	U
99-09-2	3-Nitroaniline	1.0	U
83-32-9	Acenaphthene	0.50	U
51-28-5	2,4-Dinitrophenol	2.5	U
100-02-7	4-Nitrophenol	1.0	U
132-64-9	Dibenzofuran	0.50	U
121-14-2	2,4-Dinitrotoluene	0.50	U

6/13/08

SOM01.1 (6/2007)

BREMERTON-012719

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K22

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0908.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0661

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/16/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	0.50	U
86-73-7	Fluorene	0.50	U
7005-72-3	4-Chlorophenyl-phenylether	0.50	U
100-01-6	4-Nitroaniline	1.0	U
534-52-1	4,6-Dinitro-2-methylphenol	1.0	U
86-30-6	N-Nitrosodiphenylamine 1	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.50	U
101-55-3	4-Bromophenyl-phenylether	0.50	U
118-74-1	Hexachlorobenzene	0.50	U
1912-24-9	Atrazine	0.50	U
87-86-5	Pentachlorophenol	0.50	U
85-01-8	Phenanthrene	0.50	U
120-12-7	Anthracene	0.50	U
86-74-8	Carbazole	0.50	U
84-74-2	Di-n-butylphthalate	0.50	U
206-44-0	Fluoranthene	0.50	U
129-00-0	Pyrene	0.50	U
85-68-7	Butylbenzylphthalate	0.50	U
91-94-1	3,3'-Dichlorobenzidine	0.50	U
56-55-3	Benzo(a)anthracene	0.50	U
218-01-9	Chrysene	0.50	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.52	U
117-84-0	Di-n-octylphthalate	0.50	U
205-99-2	Benzo(b)fluoranthene	0.50	U
207-08-9	Benzo(k)fluoranthene	0.50	U
50-32-8	Benzo(a)pyrene	0.50	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.50	U
53-70-3	Dibenzo(a,h)anthracene	0.50	U
191-24-2	Benzo(g,h,i)perylene	0.50	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.50	U
92-87-5	Benzidine	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U J
106-46-7	1,4-Dichlorobenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
62-75-9	N-Nitrosodimethylamine	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U

1 Cannot be separated from Diphenylamine

8/13/08

BREMERTON-012720

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K22

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0908.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0661

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/16/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.6 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.34	1.5	JN
02		Unknown-02	2.42	1.3	J
03		Unknown-03	3.13	1.2	J
04		Unknown-04	3.18	5.1	J
05		Unknown-05	6.50	1.4	J
06		Unknown-06	7.22	1.2	J
07		Unknown-07	10.38	1.5	J
08	000096-76-4	Phenol, 2,4-bis(1,1-dimethyle	12.62	2.4	NJ
09		Unknown-08	15.17	1.2	JN
10		Unknown-09	15.78	2.4	JN
11	007683-64-9	Squalene	18.32	1.4	NJ
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667962	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

8/13/08

BREMERTON-012721

Report All PAH's

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K22

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0908.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0767

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/16/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/10/2008

GPC Cleanup: (Y/N) N pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	0.45	
91-57-6	2-Methylnaphthalene	0.23	
208-96-8	Acenaphthylene	0.050	U
83-32-9	Acenaphthene	0.050	U
86-73-7	Fluorene	0.067	
87-86-5	Pentachlorophenol	0.10	U
85-01-8	Phenanthrene	0.16	U
120-12-7	Anthracene	0.063	
206-44-0	Fluoranthene	0.12	
129-00-0	Pyrene	0.19	
56-55-3	Benzo(a)anthracene	0.050	U
218-01-9	Chrysene	0.068	
205-99-2	Benzo(b)fluoranthene	0.050	U
207-08-9	Benzo(k)fluoranthene	0.050	U
50-32-8	Benzo(a)pyrene	0.050	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.050	U
53-70-3	Dibenzo(a,h)anthracene	0.050	U
191-24-2	Benzo(g,h,i)perylene	0.072	

[1] Cannot be separated from Diphenylamine

8/13/08

SOM01.2 (6/2007)

BREMERTON-012722

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K36

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0920.02

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14422

Level: (TRACE/LOW/MED) TRACE Date Received: 05/21/2008

% Moisture: not dec. _____ Date Analyzed: 05/30/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.25	U
74-87-3	Chloromethane	0.25	U
75-01-4	Vinyl chloride	0.25	U
74-83-9	Bromomethane	0.25	U
75-00-3	Chloroethane	0.25	U
75-69-4	Trichlorofluoromethane	0.25	U
75-35-4	1,1-Dichloroethene	0.25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U
67-64-1	Acetone	3.9	J Q
75-15-0	Carbon disulfide	0.25	U
79-20-9	Methyl acetate	0.25	U
75-09-2	Methylene chloride	0.25	U
156-60-5	trans-1,2-Dichloroethene	0.25	U
1634-04-4	Methyl tert-butyl ether	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U
156-59-2	cis-1,2-Dichloroethene	0.25	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.25	U
67-66-3	Chloroform	0.25	U
71-55-6	1,1,1-Trichloroethane	0.25	U
110-82-7	Cyclohexane	0.25	U
56-23-5	Carbon tetrachloride	0.25	U
71-43-2	Benzene	0.25	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
108-87-2	Methylcyclohexane	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U

7/31/08

SOM01.2 (2.2007)

00082

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K36

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0920.02

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14422

Level: (TRACE/LOW/MED) TRACE Date Received: 05/21/2008

% Moisture: not dec. _____ Date Analyzed: 05/30/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	0.25	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.25	U
106-93-4	1,2-Dibromoethane	0.25	U
108-90-7	Chlorobenzene	0.25	U
100-41-4	Ethylbenzene	0.25	U
95-47-6	o-Xylene	0.25	U
179601-23-1	m,p-Xylene	0.25	U
100-42-5	Styrene	0.25	U
75-25-2	Bromoform	0.25	U
98-82-8	Isopropylbenzene	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.25	U
67-72-1	Hexachloroethane	1.0	U
91-20-3	Naphthalene	0.25	UJ
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
96-18-4	1,2,3-Trichloropropane	0.25	U

RJ
7/31/08

SOM01.2 (6/2007)

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K36

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0920.02

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14422

Level: (TRACE or LOW/MED) TRACE Date Received: 05/21/2008

% Moisture: not dec. _____ Date Analyzed: 05/30/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.11	0.40	JN
02		Unknown-02	3.33	0.66	JN
03		Unknown-03	11.85	1.9	JN
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
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19					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

7/31/08

Report All but Benzene, Ethylbenzene & Naphthalene

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K43

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.04

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14223

Level: (TRACE/LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.25	U
74-87-3	Chloromethane	0.25	U
75-01-4	Vinyl chloride	0.25	U
74-83-9	Bromomethane	0.25	U
75-00-3	Chloroethane	0.25	U
75-69-4	Trichlorofluoromethane	0.25	U
75-35-4	1,1-Dichloroethene	0.25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.25	U
79-20-9	Methyl acetate	0.25	U
75-09-2	Methylene chloride	0.25	UJ
156-60-5	trans-1,2-Dichloroethene	0.25	U
1634-04-4	Methyl tert-butyl ether	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U
156-59-2	cis-1,2-Dichloroethene	0.25	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.25	U
67-66-3	Chloroform	0.25	U
71-55-6	1,1,1-Trichloroethane	0.25	U
110-82-7	Cyclohexane	0.38	
56-23-5	Carbon tetrachloride	0.25	U
71-43-2	Benzene	63	E → Report from J8K43DL
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
108-87-2	Methylcyclohexane	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	1.5	
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U

7/31/08

3CM01.2 (6/2007)

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K43

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.04

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14223

Level: (TRACE/LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
127-18-4	Tetrachloroethene	0.25	U	
591-78-6	2-Hexanone	5.0	U	
124-48-1	Dibromochloromethane	0.25	U	
106-93-4	1,2-Dibromoethane	0.25	U	
108-90-7	Chlorobenzene	0.25	U	
100-41-4	Ethylbenzene	31	E	→ report from J8K43DL
95-47-6	o-Xylene	5.8		
179601-23-1	m,p-Xylene	0.74		
100-42-5	Styrene	0.25	U	
75-25-2	Bromoform	0.25	U	
98-82-8	Isopropylbenzene	3.0		
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U	
541-73-1	1,3-Dichlorobenzene	0.25	U	
106-46-7	1,4-Dichlorobenzene	0.25	U	
95-50-1	1,2-Dichlorobenzene	0.25	U	
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U	
120-82-1	1,2,4-Trichlorobenzene	0.50	U	
87-61-6	1,2,3-Trichlorobenzene	0.50	U	
87-68-3	Hexachlorobutadiene	0.25	U	
67-72-1	Hexachloroethane	1.0	U	
91-20-3	Naphthalene	16	E	→ report from J8K43DL
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U	
96-18-4	1,2,3-Trichloropropane	0.25	U	

7/31/08

BREMERTON-012727

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K43

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.04

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14223

Level: (TRACE or LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.37	1.9	JN
02		Unknown-02	6.01	1.2	JN
03	000110-02-1	Thiophene	8.38	3.3	NJ
04		Unknown-03	11.87	2.0	JN
05	000632-15-5	3,4-Dimethylthiophene	14.28	1.2	NJ
06	000611-14-3	Benzene, 1-ethyl-2-methyl-	16.19	1.0	NJ
07	000622-96-8	Benzene, 1-ethyl-4-methyl-	16.73	7.9	NJ
08	000098-83-9	.alpha.-Methylstyrene	16.81	1.9	NJ
09	000526-73-8	Benzene, 1,2,3-trimethyl-	17.06	12	NJ
10	000100-80-1	Benzene, 1-ethenyl-3-methyl-	17.23	2.5	NJ
11	000496-11-7	Indane	18.07	98	NJ
12	000095-13-6	Indene	18.66	220	NJ
13		Unknown-04	18.79	2.4	JN
14	000527-84-4	Benzene, 1-methyl-2-(1-methyl	18.96	2.8	NJ
15	007525-62-4	Benzene, 1-ethenyl-3-ethyl-	19.13	4.5	NJ
16	076089-59-3	1,3-Cyclopentadiene, 1,2,3,4-	19.83	5.8	NJ
17	001504-58-1	3-Phenyl-2-propyn-1-ol	20.10	1.5	NJ
18	000874-35-1	1H-Indene, 2,3-dihydro-5-meth	20.21	11	NJ
19	000824-22-6	1H-Indene, 2,3-dihydro-4-meth	20.55	4.8	NJ
20	000535-77-3	Benzene, 1-methyl-3-(1-methyl	20.61	5.3	NJ
21	065051-83-4	Benzene, (1-methyl-2-cyclopro	20.83	18	NJ
22	000767-59-9	1H-Indene, 1-methyl-	20.99	7.0	NJ
23	002177-47-1	2-Methylindene	21.01	1.3	NJ
24	065051-83-4	Benzene, (1-methyl-2-cyclopro	21.08	17	NJ
25	000767-59-9	1H-Indene, 1-methyl-	21.09	4.0	NJ
26	004175-53-5	1H-Indene, 2,3-dihydro-1,3-di	21.41	1.2	NJ
27	000270-82-6	2-Benzothiophene #	22.17	19	NJ
28		Unknown-05	22.73	2.0	JN
29	014315-14-1	Benzo(b)thiophene, 5-methyl-	23.91	3.2	NJ
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

7/31/08

BREMERTON-012728

Report Benzene, Ethylbenzene & Naphthalene

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K43DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.04DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14313

Level: (TRACE/LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	2.5	U
74-87-3	Chloromethane	2.5	U
75-01-4	Vinyl chloride	2.5	U
74-83-9	Bromomethane	2.5	U
75-00-3	Chloroethane	2.5	U
75-69-4	Trichlorofluoromethane	2.5	U
75-35-4	1,1-Dichloroethene	2.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.5	U
67-64-1	Acetone	50	U
75-15-0	Carbon disulfide	2.5	U
79-20-9	Methyl acetate	2.5	U
75-09-2	Methylene chloride	2.5	U
156-60-5	trans-1,2-Dichloroethene	2.5	U
1634-04-4	Methyl tert-butyl ether	2.5	U
75-34-3	1,1-Dichloroethane	2.5	U
156-59-2	cis-1,2-Dichloroethene	2.5	U
78-93-3	2-Butanone	50	U
74-97-5	Bromochloromethane	2.5	U
67-66-3	Chloroform	2.5	U
71-55-6	1,1,1-Trichloroethane	2.5	U
110-82-7	Cyclohexane	2.5	U
56-23-5	Carbon tetrachloride	2.5	U
71-43-2	Benzene	70	~~U~~ → Report
107-06-2	1,2-Dichloroethane	2.5	U
79-01-6	Trichloroethene	2.5	U
108-87-2	Methylcyclohexane	2.5	U
78-87-5	1,2-Dichloropropane	2.5	U
75-27-4	Bromodichloromethane	2.5	U
10061-01-5	cis-1,3-Dichloropropene	2.5	U
108-10-1	4-Methyl-2-pentanone	50	U
108-88-3	Toluene	2.5	U
10061-02-6	trans-1,3-Dichloropropene	2.5	U
79-00-5	1,1,2-Trichloroethane	2.5	U

7/31/08

SOM01.2 (6/2007)

00142

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K43DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.04DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14313

Level: (TRACE/LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	2.5	U
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	2.5	U
106-93-4	1,2-Dibromoethane	2.5	U
108-90-7	Chlorobenzene	2.5	U
100-41-4	Ethylbenzene	26	~~U~~ → Repeat
95-47-6	o-Xylene	2.9	D
179601-23-1	m,p-Xylene	2.5	U
100-42-5	Styrene	2.5	U
75-25-2	Bromoform	2.5	U
98-82-8	Isopropylbenzene	2.5	U
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U
541-73-1	1,3-Dichlorobenzene	2.5	U
106-46-7	1,4-Dichlorobenzene	2.5	U
95-50-1	1,2-Dichlorobenzene	2.5	U
96-12-8	1,2-Dibromo-3-chloropropane	2.5	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	2.5	U
67-72-1	Hexachloroethane	10	U
91-20-3	Naphthalene	10	~~J~~ U → Repeat
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U
96-18-4	1,2,3-Trichloropropane	2.5	U

7/31/08

BREMERTON-012730

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K43DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.04DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14313

Level: (TRACE or LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	12.12	17	DJB
02	000496-11-7	Indane	18.31	140	DNJ
03	000095-13-6	Indene	18.90	320	DNJ
04					
05					
06					
07					
08					
09					
10					
11					
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24					
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A		

1 EPA-designated Registry Number.

SOMO1.2 (6/2007)

7/31/08

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K43

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0666

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	0.50	U
108-95-2	Phenol	0.50	U
111-44-4	Bis(2-chloroethyl)ether	0.50	U
95-57-8	2-Chlorophenol	0.50	U
95-48-7	2-Methylphenol	0.50	U
108-60-1	2,2'-Oxybis(1-chloropropane)	0.50	U
98-86-2	Acetophenone	0.50	U
106-44-5	4-Methylphenol	0.50	U
621-64-7	N-Nitroso-di-n-propylamine	0.50	U
67-72-1	Hexachloroethane	0.50	U
98-95-3	Nitrobenzene	0.50	U
78-59-1	Isophorone	0.50	U
88-75-5	2-Nitrophenol	0.50	U
105-67-9	2,4-Dimethylphenol	0.50	U
111-91-1	Bis(2-chloroethoxy)methane	0.50	U
120-83-2	2,4-Dichlorophenol	0.50	U
91-20-3	Naphthalene	2.3	
106-47-8	4-Chloroaniline	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
105-60-2	Caprolactam	0.71	
59-50-7	4-Chloro-3-methylphenol	0.50	U
91-57-6	2-Methylnaphthalene	0.50	U
77-47-4	Hexachlorocyclopentadiene	0.50	U
88-06-2	2,4,6-Trichlorophenol	0.50	U
95-95-4	2,4,5-Trichlorophenol	0.50	U
92-52-4	1,1'-Biphenyl	0.50	U
91-58-7	2-Chloronaphthalene	0.50	U
88-74-4	2-Nitroaniline	1.0	U
131-11-3	Dimethylphthalate	0.50	U
606-20-2	2,6-Dinitrotoluene	0.50	U
208-96-8	Acenaphthylene	5.4	
99-09-2	3-Nitroaniline	1.0	U
83-32-9	Acenaphthene	4.9	
51-28-5	2,4-Dinitrophenol	2.5	U
100-02-7	4-Nitrophenol	1.0	U
132-64-9	Dibenzofuran	0.29	J Q
121-14-2	2,4-Dinitrotoluene	0.50	U

8/13/08

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K43

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0666

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	0.50	U
86-73-7	Fluorene	0.50	U
7005-72-3	4-Chlorophenyl-phenylether	0.50	U
100-01-6	4-Nitroaniline	1.0	U
534-52-1	4,6-Dinitro-2-methylphenol	1.0	U
86-30-6	N-Nitrosodiphenylamine 1	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.50	U
101-55-3	4-Bromophenyl-phenylether	0.50	U
118-74-1	Hexachlorobenzene	0.50	U
1912-24-9	Atrazine	0.50	U
87-86-5	Pentachlorophenol	0.50	U
85-01-8	Phenanthrene	0.50	U
120-12-7	Anthracene	0.50	U
86-74-8	Carbazole	1.3	
84-74-2	Di-n-butylphthalate	0.50	U
206-44-0	Fluoranthene	0.50	U
129-00-0	Pyrene	0.50	U
85-68-7	Butylbenzylphthalate	0.50	U
91-94-1	3,3'-Dichlorobenzidine	0.50	U
56-55-3	Benzo(a)anthracene	0.50	U
218-01-9	Chrysene	0.50	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.50	J Q
117-84-0	Di-n-octylphthalate	0.50	U
205-99-2	Benzo(b)fluoranthene	0.50	U
207-08-9	Benzo(k)fluoranthene	0.50	U
50-32-8	Benzo(a)pyrene	0.50	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.50	U
53-70-3	Dibenzo(a,h)anthracene	0.50	U
191-24-2	Benzo(g,h,i)perylene	0.50	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.50	U
92-87-5	Benzidine	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U J
106-46-7	1,4-Dichlorobenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
62-75-9	N-Nitrosodimethylamine	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U

1 Cannot be separated from Diphenylamine

8/13/08

BREMERTON-012733

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K43

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0666

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.9 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.24	3.1	JN
02	000108-67-8	Benzene, 1,3,5-trimethyl-	6.02	1.6	NJ
03		Unknown-02	6.26	6.2	JN
04	000673-32-5	Benzene, 1-propynyl-	6.41	22	NJ
05	002177-47-1	2-Methylindene	8.09	2.9	NJ
06	000767-59-9	1H-Indene, 1-methyl-	8.18	4.4	NJ
07	000271-17-0	Cyclopenta[b]thiapyran	8.79	5.8	NJ
08		Unknown-03	10.07	1.9	JN
09	016587-47-6	Benzo[b]thiophene, 6-methyl-	10.19	1.7	NJ
10	000090-12-0	Naphthalene, 1-methyl-	10.52	13	NJ
11	000575-41-7	Naphthalene, 1,3-dimethyl-	11.87	1.5	NJ
12		Unknown-04	12.58	3.4	JN
13		Unknown-05	15.80	1.5	JN
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

8/13/08

BREMERTON-012734

Repot All PAHs except Naphthalene, Acenaphthylene & Acenaphthene

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K43

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0789

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) N pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
91-20-3	Naphthalene	2.4	E	→ Repeat from J8K43 (full)
91-57-6	2-Methylnaphthalene	0.35		
208-96-8	Acenaphthylene	15	E	→ "
83-32-9	Acenaphthene	11	E	→ "
86-73-7	Fluorene	0.25		
87-86-5	Pentachlorophenol	0.10	U	
85-01-8	Phenanthrene	0.050	U	
120-12-7	Anthracene	0.40		
206-44-0	Fluoranthene	0.26		
129-00-0	Pyrene	0.36		
56-55-3	Benzo(a)anthracene	0.050	U	
218-01-9	Chrysene	0.050	U	
205-99-2	Benzo(b)fluoranthene	0.050	U	
207-08-9	Benzo(k)fluoranthene	0.050	U	
50-32-8	Benzo(a)pyrene	0.050	U	
193-39-5	Indeno(1,2,3-cd)pyrene	0.050	U	
53-70-3	Dibenzo(a,h)anthracene	0.050	U	
191-24-2	Benzo(g,h,i)perylene	0.050	U	

1 Cannot be separated from Diphenylamine

8/13/08

SOM01.2 (6/2007)

BREMERTON-012735

Do NOT REPORT

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K43DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.04DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0793

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) N pH: 5.9 Dilution Factor: 5.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	3.6	DE
91-57-6	2-Methylnaphthalene	0.48	D
208-96-8	Acenaphthylene	16	DE
83-32-9	Acenaphthene	12	DE
86-73-7	Fluorene	0.33	D
87-86-5	Pentachlorophenol	0.50	U
85-01-8	Phenanthrene	0.25	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.34	D
129-00-0	Pyrene	0.41	D
56-55-3	Benzo(a)anthracene	0.25	U
218-01-9	Chrysene	0.25	U
205-99-2	Benzo(b)fluoranthene	0.25	U
207-08-9	Benzo(k)fluoranthene	0.25	U
50-32-8	Benzo(a)pyrene	0.25	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.25	U
53-70-3	Dibenzo(a,h)anthracene	0.25	U
191-24-2	Benzo(g,h,i)perylene	0.17	DJ

1 Cannot be separated from Diphenylamine

8/13/08

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K50

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0903.04

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14211

Level: (TRACE/LOW/MED) TRACE Date Received: 05/15/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.25	U
74-87-3	Chloromethane	0.25	U
75-01-4	Vinyl chloride	0.25	U
74-83-9	Bromomethane	0.25	U
75-00-3	Chloroethane	0.25	U
75-69-4	Trichlorofluoromethane	0.25	U
75-35-4	1,1-Dichloroethene	0.25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.25	U
79-20-9	Methyl acetate	0.25	U
75-09-2	Methylene chloride	0.25	UJ
156-60-5	trans-1,2-Dichloroethene	0.25	U
1634-04-4	Methyl tert-butyl ether	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U
156-59-2	cis-1,2-Dichloroethene	0.25	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.25	U
67-66-3	Chloroform	1.1	
71-55-6	1,1,1-Trichloroethane	0.25	U
110-82-7	Cyclohexane	0.25	U
56-23-5	Carbon tetrachloride	0.25	U
71-43-2	Benzene	0.25	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
108-87-2	Methylcyclohexane	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U

7/31/08

SOM01.2 (6/2007) 00156

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K50

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0903.04

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14211

Level: (TRACE/LOW/MED) TRACE Date Received: 05/15/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	0.25	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.25	U
106-93-4	1,2-Dibromoethane	0.25	U
108-90-7	Chlorobenzene	0.25	U
100-41-4	Ethylbenzene	0.25	U
95-47-6	o-Xylene	0.25	U
179601-23-1	m,p-Xylene	0.25	U
100-42-5	Styrene	0.25	U
75-25-2	Bromoform	0.25	U
98-82-8	Isopropylbenzene	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.25	U
67-72-1	Hexachloroethane	1.0	U
91-20-3	Naphthalene	0.25	UJ
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
96-18-4	1,2,3-Trichloropropane	0.25	U

7/31/08

BREMERTON-012738

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K50

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0903.04

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14211

Level: (TRACE or LOW/MED) TRACE Date Received: 05/15/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.97	0.48	JN
02		Unknown-02	11.87	2.2	JN
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

7/31/08

1D - FORM I SV-1 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K50

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0903.04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0660

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/16/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 6.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	0.50	U
108-95-2	Phenol	0.50	U
111-44-4	Bis(2-chloroethyl)ether	0.50	U
95-57-8	2-Chlorophenol	0.50	U
95-48-7	2-Methylphenol	0.50	U
108-60-1	2,2'-Oxybis(1-chloropropane)	0.50	U
98-86-2	Acetophenone	0.50	U
106-44-5	4-Methylphenol	0.50	U
621-64-7	N-Nitroso-di-n-propylamine	0.50	U
67-72-1	Hexachloroethane	0.50	U
98-95-3	Nitrobenzene	0.50	U
78-59-1	Isophorone	0.50	U
88-75-5	2-Nitrophenol	0.50	U
105-67-9	2,4-Dimethylphenol	0.50	U
111-91-1	Bis(2-chloroethoxy)methane	0.50	U
120-83-2	2,4-Dichlorophenol	0.50	U
91-20-3	Naphthalene	0.50	U
106-47-8	4-Chloroaniline	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
105-60-2	Caprolactam	0.50	U
59-50-7	4-Chloro-3-methylphenol	0.50	U
91-57-6	2-Methylnaphthalene	0.50	U
77-47-4	Hexachlorocyclopentadiene	0.50	U
88-06-2	2,4,6-Trichlorophenol	0.50	U
95-95-4	2,4,5-Trichlorophenol	0.50	U
92-52-4	1,1'-Biphenyl	0.50	U
91-58-7	2-Chloronaphthalene	0.50	U
88-74-4	2-Nitroaniline	1.0	U
131-11-3	Dimethylphthalate	0.50	U
606-20-2	2,6-Dinitrotoluene	0.50	U
208-96-8	Acenaphthylene	0.50	U
99-09-2	3-Nitroaniline	1.0	U
83-32-9	Acenaphthene	0.50	U
51-28-5	2,4-Dinitrophenol	2.5	U
100-02-7	4-Nitrophenol	1.0	U
132-64-9	Dibenzofuran	0.50	U
121-14-2	2,4-Dinitrotoluene	0.50	U

8/13/08

SOM01.2 (2/2007)

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K50

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0903.04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0660

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/16/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 6.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	0.50	U
86-73-7	Fluorene	0.50	U
7005-72-3	4-Chlorophenyl-phenylether	0.50	U
100-01-6	4-Nitroaniline	1.0	U
534-52-1	4,6-Dinitro-2-methylphenol	1.0	U
86-30-6	N-Nitrosodiphenylamine 1	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.50	U
101-55-3	4-Bromophenyl-phenylether	0.50	U
118-74-1	Hexachlorobenzene	0.50	U
1912-24-9	Atrazine	0.50	U
87-86-5	Pentachlorophenol	0.50	U
85-01-8	Phenanthrene	0.50	U
120-12-7	Anthracene	0.50	U
86-74-8	Carbazole	0.50	U
84-74-2	Di-n-butylphthalate	0.50	U
206-44-0	Fluoranthene	0.50	U
129-00-0	Pyrene	0.50	U
85-68-7	Butylbenzylphthalate	0.50	U
91-94-1	3,3'-Dichlorobenzidine	0.50	U
56-55-3	Benzo(a)anthracene	0.50	U
218-01-9	Chrysene	0.50	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.50	U
117-84-0	Di-n-octylphthalate	0.50	U
205-99-2	Benzo(b)fluoranthene	0.50	U
207-08-9	Benzo(k)fluoranthene	0.50	U
50-32-8	Benzo(a)pyrene	0.50	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.50	U
53-70-3	Dibenzo(a,h)anthracene	0.50	U
191-24-2	Benzo(g,h,i)perylene	0.50	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.50	U
92-87-5	Benzidine	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
62-75-9	N-Nitrosodimethylamine	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U

1 Cannot be separated from Diphenylamine

8/13/08

BREMERTON-012741

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K50

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0903.04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0660

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/16/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 6.3 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.34	0.91	JN
02		Unknown-02	2.76	0.58	J
03		Unknown-03	2.86	0.99	J
04		Unknown-04	3.13	0.72	J
05		Unknown-05	3.18	3.2	J
06		Unknown-06	3.76	0.53	J
07		Unknown-07	4.26	0.67	J
08		Unknown-08	4.29	1.9	J
09		Unknown-09	4.50	1.2	J
10		Unknown-10	4.55	0.53	J
11		Unknown-11	4.75	1.8	J
12		Unknown-12	5.01	2.3	J
13		Unknown-13	5.71	0.54	J
14		Unknown-14	6.10	0.70	J
15		Unknown-15	6.51	0.88	JL
16	007206-19-1	3-Octadecene, (E)-	6.94	0.64	NJ
17		Unknown-16	7.22	0.92	JN
18		Unknown-17	10.39	1.0	JN
19	000096-76-4	Phenol, 2,4-bis(1,1-dimethyle	12.62	4.3	NJ
20		Unknown-18	17.48	0.77	JN
21		Unknown-19	17.75	0.67	JL
22		Unknown-20	18.33	0.70	JL
23	126845-01-9	3,5,6-Trimethyl-p-quinone, 2-	18.53	0.94	NJ
24		Unknown-21	20.39	0.73	JN
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	2.5	JN

[2] EPA-designated Registry Number.

8/13/08

BREMERTON-012742

Report All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K50

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0903.04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0779

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/16/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/10/2008

GPC Cleanup: (Y/N) N pH: 6.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	0.30	
91-57-6	2-Methylnaphthalene	0.057	
208-96-8	Acenaphthylene	0.050	U
83-32-9	Acenaphthene	0.050	U
86-73-7	Fluorene	0.050	U
87-86-5	Pentachlorophenol	0.10	U
85-01-8	Phenanthrene	0.037	JQ
120-12-7	Anthracene	0.050	U
206-44-0	Fluoranthene	0.050	U
129-00-0	Pyrene	0.050	U
56-55-3	Benzo(a)anthracene	0.050	U
218-01-9	Chrysene	0.050	U
205-99-2	Benzo(b)fluoranthene	0.050	U
207-08-9	Benzo(k)fluoranthene	0.050	U
50-32-8	Benzo(a)pyrene	0.050	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.032	JQ
53-70-3	Dibenzo(a,h)anthracene	0.042	JQ
191-24-2	Benzo(g,h,i)perylene	0.062	

1 Cannot be separated from Diphenylamine

8/13/08

SOM01.2 (6/2007)

BREMERTON-012743

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K51

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0908.09

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14213

Level: (TRACE/LOW/MED) TRACE Date Received: 05/16/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.25	U
74-87-3	Chloromethane	0.25	U
75-01-4	Vinyl chloride	0.25	U
74-83-9	Bromomethane	0.25	U
75-00-3	Chloroethane	0.25	U
75-69-4	Trichlorofluoromethane	0.25	U
75-35-4	1,1-Dichloroethene	0.25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.25	U
79-20-9	Methyl acetate	0.25	U
75-09-2	Methylene chloride	0.25	UJ
156-60-5	trans-1,2-Dichloroethene	0.25	U
1634-04-4	Methyl tert-butyl ether	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U
156-59-2	cis-1,2-Dichloroethene	0.25	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.25	U
67-66-3	Chloroform	1.2	U
71-55-6	1,1,1-Trichloroethane	0.25	U
110-82-7	Cyclohexane	0.25	U
56-23-5	Carbon tetrachloride	0.25	U
71-43-2	Benzene	0.25	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
108-87-2	Methylcyclohexane	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U

7/31/08

BREMERTON-012744

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K51

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0908.09

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14213

Level: (TRACE/LOW/MED) TRACE Date Received: 05/16/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	0.25	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.25	U
106-93-4	1,2-Dibromoethane	0.25	U
108-90-7	Chlorobenzene	0.25	U
100-41-4	Ethylbenzene	0.25	U
95-47-6	o-Xylene	0.25	U
179601-23-1	m,p-Xylene	0.25	U
100-42-5	Styrene	0.25	U
75-25-2	Bromoform	0.25	U
98-82-8	Isopropylbenzene	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.25	U
67-72-1	Hexachloroethane	1.0	U
91-20-3	Naphthalene	0.25	UJ
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
96-18-4	1,2,3-Trichloropropane	0.25	U

7/31/08

BREMERTON-012745

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K51

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0908.09

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14213

Level: (TRACE or LOW/MED) TRACE Date Received: 05/16/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.87	2.1	JBN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A		

1 EPA-designated Registry Number.

SOM01.2 (6/2007)

7/31/08

BREMERTON-012746

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K51

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0908.09

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0662

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/16/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	0.50	U
108-95-2	Phenol	0.50	U
111-44-4	Bis(2-chloroethyl)ether	0.50	U
95-57-8	2-Chlorophenol	0.50	U
95-48-7	2-Methylphenol	0.50	U
108-60-1	2,2'-Oxybis(1-chloropropane)	0.50	U
98-86-2	Acetophenone	0.50	U
106-44-5	4-Methylphenol	0.50	U
621-64-7	N-Nitrosc-di-n-propylamine	0.50	U
67-72-1	Hexachloroethane	0.50	U
98-95-3	Nitrobenzene	0.50	U
78-59-1	Isophorone	0.50	U
88-75-5	2-Nitrophenol	0.50	U
105-67-9	2,4-Dimethylphenol	0.50	U
111-91-1	Bis(2-chloroethoxy)methane	0.50	U
120-83-2	2,4-Dichlorophenol	0.50	U
91-20-3	Naphthalene	0.86	
106-47-8	4-Chloroaniline	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
105-60-2	Caprolactam	0.50	U
59-50-7	4-Chloro-3-methylphenol	0.50	U
91-57-6	2-Methylnaphthalene	0.50	U
77-47-4	Hexachlorocyclopentadiene	0.50	U
88-06-2	2,4,6-Trichlorophenol	0.50	U
95-95-4	2,4,5-Trichlorophenol	0.50	U
92-52-4	1,1'-Biphenyl	0.50	U
91-58-7	2-Chloronaphthalene	0.50	U
88-74-4	2-Nitroaniline	1.0	U
131-11-3	Dimethylphthalate	0.50	U
606-20-2	2,6-Dinitrotoluene	0.50	U
208-96-8	Acenaphthylene	0.50	U
99-09-2	3-Nitroaniline	1.0	U
83-32-9	Acenaphthene	0.50	U
51-28-5	2,4-Dinitrophenol	2.5	U
100-02-7	4-Nitrophenol	1.0	U
132-64-9	Dibenzofuran	0.50	U
121-14-2	2,4-Dinitrotoluene	0.50	U

8/13/08

SOM01.2 (6/2007)

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K51

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0908.09

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0662

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/16/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	0.50	U
86-73-7	Fluorene	0.50	U
7005-72-3	4-Chlorophenyl-phenylether	0.50	U
100-01-6	4-Nitroaniline	1.0	U
534-52-1	4,6-Dinitro-2-methylphenol	1.0	U
86-30-6	N-Nitrosodiphenylamine 1	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.50	U
101-55-3	4-Bromophenyl-phenylether	0.50	U
118-74-1	Hexachlorobenzene	0.50	U
1912-24-9	Atrazine	0.50	U
87-86-5	Pentachlorophenol	0.50	U
85-01-8	Phenanthrene	0.50	U
120-12-7	Anthracene	0.50	U
86-74-8	Carbazole	0.50	U
84-74-2	Di-n-butylphthalate	0.50	U
206-44-0	Fluoranthene	0.50	U
129-00-0	Pyrene	0.50	U
85-68-7	Butylbenzylphthalate	0.50	U
91-94-1	3,3'-Dichlorobenzidine	0.50	U
56-55-3	Benzo(a)anthracene	0.50	U
218-01-9	Chrysene	0.50	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.38	J Q
117-84-0	Di-n-octylphthalate	0.50	U
205-99-2	Benzo(b)fluoranthene	0.50	U
207-08-9	Benzo(k)fluoranthene	0.50	U
50-32-8	Benzo(a)pyrene	0.50	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.50	U
53-70-3	Dibenzo(a,h)anthracene	0.50	U
191-24-2	Benzo(g,h,i)perylene	0.50	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.50	U
92-87-5	Benzidine	0.30	U
95-50-1	1,2-Dichlorobenzene	0.50	U I
106-46-7	1,4-Dichlorobenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
62-75-9	N-Nitrosodimethylamine	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U

1 Cannot be separated from Diphenylamine

8/13/08

SOM01.2 (6/2007) 000731

BREMERTON-012748

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: J8K51

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0908.09

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0662

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/16/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.8 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.34	2.7	JN
02		Unknown-02	3.13	1.2	J
03		Unknown-03	3.18	4.9	J
04	000138-86-3	Limonene	6.10	1.1	NJ
05		Unknown-04	6.50	1.5	JN
06		Unknown-05	6.93	1.0	J
07		Unknown-06	7.22	1.4	J
08		Unknown-07	10.27	0.90	J
09		Unknown-08	10.38	1.6	J
10	000096-76-4	Phenol, 2,4-bis(1,1-dimethyle	12.61	6.1	NJ
11	288246-53-7	Pyridine-3-carboxamide, oxime	17.48	1.0	NJ
12	000111-02-4	2,6,10,14,18,22-Tetracosahexa	18.33	1.3	NJ
13	054125-39-2	trans-2,3-Epoxydecane	20.39	0.97	NJ
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667962	Total Alkanes	N/A	1.1	JN

2 EPA-designated Registry Number.

8/13/08

BREMERTON-012749

Repot All PAHs except Naphthalene & 2-Methylnaphthalene

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K51

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0908.09

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0768

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/16/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/10/2008

GPC Cleanup: (Y/N) N pH: 5.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	2.4	E
91-57-6	2-Methylnaphthalene	0.70	E
208-96-8	Acenaphthylene	0.050	U
83-32-9	Acenaphthene	0.14	
86-73-7	Fluorene	0.084	
87-86-5	Pentachlorophenol	0.10	U
85-01-8	Phenanthrene	0.093	
120-12-7	Anthracene	0.050	U
206-44-0	Fluoranthene	0.050	U
129-00-0	Pyrene	0.050	U
56-55-3	Benzo(a)anthracene	0.050	U
218-01-9	Chrysene	0.050	U
205-99-2	Benzo(b)fluoranthene	0.050	U
207-08-9	Benzo(k)fluoranthene	0.050	U
50-32-8	Benzo(a)pyrene	0.050	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.050	U
53-70-3	Dibenzo(a,h)anthracene	0.050	U
191-24-2	Benzo(g,h,i)perylene	0.059	

Repot from J8K5 Chr

Repot from J8K51DL(5)

[1] Cannot be separated from Diphenylamine

8/13/08

SOM01.2 6/2007)

91288

Report Only 2-Methylnaphthalene

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K51DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0908.09DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0799

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/16/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) N pH: 5.8 Dilution Factor: 5.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	4.6	DE
91-57-6	2-Methylnaphthalene	1.2	~~U~~ → Report
208-96-8	Acenaphthylene	0.25	U
83-32-9	Acenaphthene	0.24	DJ
86-73-7	Fluorene	0.18	DJ
87-86-5	Pentachlorophenol	0.50	U
85-01-8	Phenanthrene	0.21	DJ
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.25	U
129-00-0	Pyrene	0.25	U
56-55-3	Benzo(a)anthracene	0.25	U
218-01-9	Chrysene	0.25	U
205-99-2	Benzo(b)fluoranthene	0.25	U
207-08-9	Benzo(k)fluoranthene	0.25	U
50-32-8	Benzo(a)pyrene	0.25	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.25	U
53-70-3	Dibenzo(a,h)anthracene	0.25	U
191-24-2	Benzo(g,h,i)perylene	0.25	U

1 Cannot be separated from Diphenylamine

8/13/08

SOM01.2 (6/2007)

BREMERTON-012751

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K52

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.05

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14311

Level: (TRACE/LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.25	U
74-87-3	Chloromethane	0.25	U
75-01-4	Vinyl chloride	0.25	U
74-83-9	Bromomethane	0.25	U
75-00-3	Chloroethane	0.25	U
75-69-4	Trichlorofluoromethane	0.25	U
75-35-4	1,1-Dichloroethene	0.25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.25	U
79-20-9	Methyl acetate	0.25	U
75-09-2	Methylene chloride	0.25	U
156-60-5	trans-1,2-Dichloroethene	0.25	U
1634-04-4	Methyl tert-butyl ether	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U
156-59-2	cis-1,2-Dichloroethene	0.25	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.25	U
67-66-3	Chloroform	0.25	U
71-55-6	1,1,1-Trichloroethane	0.25	U
110-82-7	Cyclohexane	0.25	U
56-23-5	Carbon tetrachloride	0.25	U
71-43-2	Benzene	0.25	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
108-87-2	Methylcyclohexane	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U

7/31/08

SOM01.2 (6/2007) 00155

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K52

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.05

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14311

Level: (TRACE/LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	0.25	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.25	U
106-93-4	1,2-Dibromoethane	0.25	U
108-90-7	Chlorobenzene	0.25	U
100-41-4	Ethylbenzene	0.25	U
95-47-6	o-Xylene	0.25	U
179601-23-1	m,p-Xylene	0.25	U
100-42-5	Styrene	0.25	U
75-25-2	Bromoform	0.25	U
98-82-8	Isopropylbenzene	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.25	U
67-72-1	Hexachloroethane	1.0	U
91-20-3	Naphthalene	0.25	UJ
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
96-18-4	1,2,3-Trichloropropane	0.25	U

7/31/08

BREMERTON-012753

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K52

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.05

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14311

Level: (TRACE or LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.14	0.28	JN
02		Unknown-02	12.12	1.8	JN
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A		

1 EPA-designated Registry Number.

SOM01.2 (6/2007)

7/31/08

68187

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K52

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0667

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	0.50	U
108-95-2	Phenol	0.50	U
111-44-4	Bis(2-chloroethyl)ether	0.50	U
95-57-8	2-Chlorophenol	0.50	U
95-48-7	2-Methylphenol	0.50	U
108-60-1	2,2'-Oxybis(1-chloropropane)	0.50	U
98-86-2	Acetophenone	0.50	U
106-44-5	4-Methylphenol	0.50	U
621-64-7	N-Nitroso-di-n-propylamine	0.50	U
67-72-1	Hexachloroethane	0.50	U
98-95-3	Nitrobenzene	0.50	U
78-59-1	Isophorone	0.50	U
88-75-5	2-Nitrophenol	0.50	U
105-67-9	2,4-Dimethylphenol	0.50	U
111-91-1	Bis(2-chloroethoxy)methane	0.50	U
120-83-2	2,4-Dichlorophenol	0.50	U
91-20-3	Naphthalene	0.65	
106-47-8	4-Chloroaniline	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
105-60-2	Caprolactam	0.50	U
59-50-7	4-Chloro-3-methylphenol	0.50	U
91-57-6	2-Methylnaphthalene	0.50	U
77-47-4	Hexachlorocyclopentadiene	0.50	U
88-06-2	2,4,6-Trichlorophenol	0.50	U
95-95-4	2,4,5-Trichlorophenol	0.50	U
92-52-4	1,1'-Biphenyl	0.50	U
91-58-7	2-Chloronaphthalene	0.50	U
88-74-4	2-Nitroaniline	2.5	U
131-11-3	Dimethylphthalate	0.50	U
606-20-2	2,6-Dinitrotoluene	0.50	U
208-96-8	Acenaphthylene	0.50	U
99-09-2	3-Nitroaniline	1.0	U
83-32-9	Acenaphthene	0.50	U
51-28-5	2,4-Dinitrophenol	2.5	U
100-02-7	4-Nitrophenol	1.0	U
132-64-9	Dibenzofuran	0.50	U
121-14-2	2,4-Dinitrotoluene	0.50	U

8/13/08

SOM01.2 6/2007

BREMERTON-012755

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K52

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0667

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	0.46	J Q
86-73-7	Fluorene	0.50	U
7005-72-3	4-Chlorophenyl-phenylether	0.50	U
100-01-6	4-Nitroaniline	1.0	U
534-52-1	4,6-Dinitro-2-methylphenol	1.0	U
86-30-6	N-Nitrosodiphenylamine 1	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.50	U
101-55-3	4-Bromophenyl-phenylether	0.50	U
118-74-1	Hexachlorobenzene	0.50	U
1912-24-9	Atrazine	0.50	U
87-86-5	Pentachlorophenol	0.50	U
85-01-8	Phenanthrene	0.50	U
120-12-7	Anthracene	0.50	U
86-74-8	Carbazole	0.50	U
84-74-2	Di-n-butylphthalate	0.50	U
206-44-0	Fluoranthene	0.50	U
129-00-0	Pyrene	0.50	U
85-68-7	Butylbenzylphthalate	0.50	U
91-94-1	3,3'-Dichlorobenzidine	0.50	U
56-55-3	Benzo(a)anthracene	0.50	U
218-01-9	Chrysene	0.50	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.42	J Q
117-84-0	Di-n-octylphthalate	0.50	U
205-99-2	Benzo(b)fluoranthene	0.50	U
207-08-9	Benzo(k)fluoranthene	0.50	U
50-32-8	Benzo(a)pyrene	0.50	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.50	U
53-70-3	Dibenzo(a,h)anthracene	0.50	U
191-24-2	Benzo(g,h,i)perylene	0.50	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.50	U
92-87-5	Benzidine	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U J
106-46-7	1,4-Dichlorobenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
62-75-9	N-Nitrosodimethylamine	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U

1 Cannot be separated from Diphenylamine

8/13/08

BREMERTON-012756

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K52

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0667

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.34	2.2	JN
02		Unknown-02	3.18	2.3	J
03		Unknown-03	8.17	1.7	J
04		Unknown-04	10.09	3.4	J
05		Unknown-05	10.48	2.0	J
06		Unknown-06	12.62	7.7	J
07		Unknown-07	21.30	2.1	J
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

8/13/08

BREMERTON-012757

Report All but Naphthalene

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K52

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0790

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.1	E → Report from J8K52PL (SIM)
91-57-6	2-Methylnaphthalene	0.18	
208-96-8	Acenaphthylene	0.035	J Q
83-32-9	Acenaphthene	0.050	U
86-73-7	Fluorene	0.050	U
87-86-5	Pentachlorophenol	0.10	U
85-01-8	Phenanthrene	0.044	J Q
120-12-7	Anthracene	0.050	U
206-44-0	Fluoranthene	0.10	
129-00-0	Pyrene	0.17	
56-55-3	Benzo(a)anthracene	0.048	J Q
218-01-9	Chrysene	0.085	
205-99-2	Benzo(b)fluoranthene	0.044	J Q
207-08-9	Benzo(k)fluoranthene	0.052	
50-32-8	Benzo(a)pyrene	0.077	
193-39-5	Indeno(1,2,3-cd)pyrene	0.045	J Q
53-70-3	Dibenzo(a,h)anthracene	0.050	U
191-24-2	Benzo(g,h,i)perylene	0.070	

1 Cannot be separated from Diphenylamine

8/13/08

Report Only Naphthalene

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K52DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.05DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0806

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 5.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1.9	D → Report
91-57-6	2-Methylnaphthalene	0.27	D
208-96-8	Acenaphthylene	0.25	U
83-32-9	Acenaphthene	0.25	U
86-73-7	Fluorene	0.25	U
87-86-5	Pentachlorophenol	0.50	U
85-01-8	Phenanthrene	0.14	DJ
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.16	DJ
129-00-0	Pyrene	0.38	D
56-55-3	Benzo(a)anthracene	0.25	U
218-01-9	Chrysene	0.25	U
205-99-2	Benzo(b)fluoranthene	0.25	U
207-08-9	Benzo(k)fluoranthene	0.25	U
50-32-8	Benzo(a)pyrene	0.25	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.25	U
53-70-3	Dibenzo(a,h)anthracene	0.25	U
191-24-2	Benzo(g,h,i)perylene	0.25	U

1 Cannot be separated from Diphenylamine

8/13/08

SOM01.2 (6/2007)

91311

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K53

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14305

Level: (TRACE/LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.25	UJ
74-87-3	Chloromethane	0.25	U
75-01-4	Vinyl chloride	0.25	U
74-83-9	Bromomethane	0.25	U
75-00-3	Chloroethane	0.25	U
75-69-4	Trichlorofluoromethane	0.25	U
75-35-4	1,1-Dichloroethene	0.25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.25	U
79-20-9	Methyl acetate	0.25	U
75-09-2	Methylene chloride	0.25	U
156-60-5	trans-1,2-Dichloroethene	0.25	U
1634-04-4	Methyl tert-butyl ether	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U
156-59-2	cis-1,2-Dichloroethene	0.25	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.25	U
67-66-3	Chloroform	0.25	U
71-55-6	1,1,1-Trichloroethane	0.25	U
110-82-7	Cyclohexane	0.25	U
56-23-5	Carbon tetrachloride	0.25	U
71-43-2	Benzene	0.25	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.31	
108-87-2	Methylcyclohexane	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	UL

7/31/08

SDG135

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K53

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14305

Level: (TRACE/LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	0.25	UJ
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.25	U
106-93-4	1,2-Dibromoetnane	0.25	U
108-90-7	Chlorobenzene	0.25	U
100-41-4	Ethylbenzene	0.25	U
95-47-6	o-Xylene	0.25	U
179601-23-1	m,p-Xylene	0.25	U
100-42-5	Styrene	0.25	U
75-25-2	Bromoform	0.25	U
98-82-8	Isopropylbenzene	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.25	U
67-72-1	Hexachloroethane	1.0	U
91-20-3	Naphthalene	0.25	U
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
96-18-4	1,2,3-Trichloropropane	0.25	U

7/31/08

BREMERTON-012761

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K53

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14305

Level: (TRACE or LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.04	0.63	JN
02		Unknown-02	12.12	1.9	JN
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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16					
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19					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

7/31/08

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K53

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0664

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	0.50	U
108-95-2	Phenol	0.50	U
111-44-4	Bis(2-chloroethyl)ether	0.50	U
95-57-8	2-Chlorophenol	0.50	U
95-48-7	2-Methylphenol	0.50	U
108-60-1	2,2'-Oxybis(1-chloropropane)	0.50	U
98-86-2	Acetophenone	0.50	U
106-44-5	4-Methylphenol	0.50	U
621-64-7	N-Nitroso-di-n-propylamine	0.50	U
67-72-1	Hexachloroethane	0.50	U
98-95-3	Nitrobenzene	0.50	U
78-59-1	Isophorone	0.50	U
88-75-5	2-Nitrophenol	0.50	U
105-67-9	2,4-Dimethylphenol	0.50	U
111-91-1	Bis(2-chloroethoxy)methane	0.50	U
120-83-2	2,4-Dichlorophenol	0.50	U
91-20-3	Naphthalene	0.50	U
106-47-8	4-Chloroaniline	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
105-60-2	Caprolactam	0.48	J Q
59-50-7	4-Chloro-3-methylphenol	0.50	U
91-57-6	2-Methylnaphthalene	0.50	U
77-47-4	Hexachlorocyclopentadiene	0.50	U
88-06-2	2,4,6-Trichlorophenol	0.50	U
95-95-4	2,4,5-Trichlorophenol	0.50	U
92-52-4	1,1'-Biphenyl	0.50	U
91-58-7	2-Chloronaphthalene	0.50	U
88-74-4	2-Nitroaniline	1.0	U
131-11-3	Dimethylphthalate	0.50	U
606-20-2	2,6-Dinitrotoluene	0.50	U
208-96-8	Acenaphthylene	0.50	U
99-09-2	3-Nitroaniline	1.0	U
83-32-9	Acenaphthene	0.50	U
51-28-5	2,4-Dinitrophenol	2.5	U
100-02-7	4-Nitrophenol	1.0	U
132-64-9	Dibenzofuran	0.50	U
121-14-2	2,4-Dinitrotoluene	0.50	U

8/13/08

BREMERTON-012763

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K53

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0664

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	0.34	J Q
86-73-7	Fluorene	0.50	U
7005-72-3	4-Chlorophenyl-phenylether	0.50	U
100-01-6	4-Nitroaniline	1.0	U
534-52-1	4,6-Dinitro-2-methylphenol	1.0	U
86-30-6	N-Nitroscdiphenylamine 1	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.50	U
101-55-3	4-Bromophenyl-phenylether	0.50	U
118-74-1	Hexachlorobenzene	0.50	U
1912-24-9	Atrazine	0.50	U
87-86-5	Pentachlorophenol	0.50	U
85-01-8	Phenanthrene	0.50	U
120-12-7	Anthracene	0.50	U
86-74-8	Carbazole	0.50	U
84-74-2	Di-n-butylphthalate	0.50	U
206-44-0	Fluoranthene	0.26	J Q
129-00-0	Pyrene	0.38	J Q
85-68-7	Butylbenzylphthalate	0.34	J Q
91-94-1	3,3'-Dichlorobenzidine	0.50	U
56-55-3	Benzo(a)anthracene	0.50	U
218-01-9	Chrysene	0.26	J Q
117-81-7	Bis(2-ethylhexyl)phthalate	0.49	J Q
117-84-0	Di-n-octylphthalate	0.50	U
205-99-2	Benzo(b)fluoranthene	0.50	U
207-08-9	Benzo(k)fluoranthene	0.50	U
50-32-8	Benzo(a)pyrene	0.36	J Q
193-39-5	Indeno(1,2,3-cd)pyrene	0.27	J Q
53-70-3	Dibenzo(a,h)anthracene	0.50	U
191-24-2	Benzo(g,h,i)perylene	0.35	J Q
58-90-2	2,3,4,6-Tetrachlorophenol	0.50	U
92-87-5	Benzidine	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U J
106-46-7	1,4-Dichlorobenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
62-75-9	N-Nitrosodimethylamine	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U

1 Cannot be separated from Diphenylamine

8/13/08

BREMERTON-012764

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K53

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0664

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.8 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.34	1.4	JN
02		Unknown-02	2.44	1.1	J
03		Unknown-03	3.18	2.2	J
04		Unknown-04	3.26	2.9	J
05		Unknown-05	10.08	1.2	J
06	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.37	1.6	NJ
07		Unknown-06	12.58	1.0	JN
08	000128-39-2	Phenol, 2,6-bis(1,1-dimethyle	12.62	0.87	NJ
09		Unknown-07	17.82	0.99	JN
10		Unknown-08	18.16	0.88	J
11		Unknown-09	18.33	1.2	J
12	000050-32-8	Benzo[a]pyrene	18.60	1.6	NJ
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

3OM21.2 (6/2007)

8/13/08

Repeat All PAHs except Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene & Benzo(g,h,i) perylene

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K53

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0788

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) N pH: 5.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	0.42	
91-57-6	2-Methylnaphthalene	0.11	
208-96-8	Acenaphthylene	0.089	
83-32-9	Acenaphthene	0.050	U
86-73-7	Fluorene	0.050	U
87-86-5	Pentachlorophenol	0.10	U
85-01-8	Phenanthrene	0.033	J
120-12-7	Anthracene	0.037	J
206-44-0	Fluoranthene	0.65	E
129-00-0	Pyrene	0.99	E
56-55-3	Benzo(a)anthracene	0.57	E
218-01-9	Chrysene	0.89	E
205-99-2	Benzo(b)fluoranthene	0.55	E
207-08-9	Benzo(k)fluoranthene	0.58	E
50-32-8	Benzo(a)pyrene	1.1	E
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	
53-70-3	Dibenzo(a,h)anthracene	0.11	
191-24-2	Benzo(g,h,i)perylene	0.55	E

Report from J8K53DL (SIM)

[1] Cannot be separated from Diphenylamine

8/13/08

SOM01.2 (6/2007)

Repeat Only Fluoranthene, Pyrene, Benzo(a) anthracene, Chrysene, Benzo(b) Fluoranthene Benzo(K) fluoranthene, Benzo(a) pyrene & Benzo(ghi) perylene

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K53DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.01DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0795

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) N pH: 5.8 Dilution Factor: 10.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
91-20-3	Naphthalene	1.6	D	
91-57-6	2-Methylnaphthalene	0.50	U	
208-96-8	Acenaphthylene	0.50	U	
83-32-9	Acenaphthene	0.50	U	
86-73-7	Fluorene	0.50	U	
87-86-5	Pentachlorophenol	1.0	U	
85-01-8	Phenanthrene	0.50	U	
120-12-7	Anthracene	0.50	U	
206-44-0	Fluoranthene	0.81	D	Repeat
129-00-0	Pyrene	1.1	D	
56-55-3	Benzo(a)anthracene	0.66	D	
218-01-9	Chrysene	1.1	D	
205-99-2	Benzo(b)fluoranthene	0.59	D	
207-08-9	Benzo(k)fluoranthene	0.70	D	
50-32-8	Benzo(a)pyrene	1.1	D	
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	D	
53-70-3	Dibenzo(a,h)anthracene	0.32	DJ	
191-24-2	Benzo(g,h,i)perylene	0.82	D	→ Repeat

1 Cannot be separated from Diphenylamine

8/13/08

SOM01.2 (6/2007)

91334

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K60

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0911.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14217

Level: (TRACE/LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.25	U
74-87-3	Chloromethane	0.25	U
75-01-4	Vinyl chloride	0.25	U
74-83-9	Bromomethane	0.25	U
75-00-3	Chloroethane	0.25	U
75-69-4	Trichlorofluoromethane	0.25	U
75-35-4	1,1-Dichloroethene	0.25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.25	U
79-20-9	Methyl acetate	0.25	U
75-09-2	Methylene chloride	0.25	UT
156-60-5	trans-1,2-Dichloroethene	0.25	U
1634-04-4	Methyl tert-butyl ether	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U
156-59-2	cis-1,2-Dichloroethene	0.25	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.25	U
67-66-3	Chloroform	0.25	U
71-55-6	1,1,1-Trichloroethane	0.25	U
110-82-7	Cyclohexane	0.25	U
56-23-5	Carbon tetrachloride	0.25	U
71-43-2	Benzene	0.25	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.49	
108-87-2	Methylcyclohexane	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U

7/31/08

SOM01.2 (6/2007) 59209

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K60

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0911.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14217

Level: (TRACE/LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	0.25	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.25	U
106-93-4	1,2-Dibromoethane	0.25	U
108-90-7	Chlorobenzene	0.25	U
100-41-4	Ethylbenzene	0.25	U
95-47-6	o-Xylene	0.25	U
179601-23-1	m,p-Xylene	0.25	U
100-42-5	Styrene	0.25	U
75-25-2	Bromoform	0.25	U
98-82-8	Isopropylbenzene	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.25	U
67-72-1	Hexachloroethane	1.0	U
91-20-3	Naphthalene	0.25	UJ
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
96-18-4	1,2,3-Trichloropropane	0.25	U

7/31/08

BREMERTON-012769

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K60

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0911.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14217

Level: (TRACE or LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.00	0.52	JN
02		Unknown-02	3.32	0.51	JN
03		Unknown-03	11.87	2.2	JN
04					
05					
06					
07					
08					
09					
10					
11					
12					
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17					
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19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

7/31/08 SD211

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K60

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0911.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0663

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	0.50	U
108-95-2	Phenol	0.50	U
111-44-4	Bis(2-chloroethyl)ether	0.50	U
95-57-8	2-Chlorophenol	0.50	U
95-48-7	2-Methylphenol	0.50	U
108-60-1	2,2'-Oxybis(1-chloropropane)	0.50	U
98-86-2	Acetophenone	0.50	U
106-44-5	4-Methylphenol	0.50	U
621-64-7	N-Nitroso-di-n-propylamine	0.50	U
67-72-1	Hexachloroethane	0.50	U
98-95-3	Nitrobenzene	0.50	U
78-59-1	Isophorone	0.50	U
88-75-5	2-Nitrophenol	0.50	U
105-67-9	2,4-Dimethylphenol	0.50	U
111-91-1	Bis(2-chloroethoxy)methane	0.50	U
120-83-2	2,4-Dichlorophenol	0.50	U
91-20-3	Naphthalene	0.50	U
106-47-8	4-Chloroaniline	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
105-60-2	Caprolactam	0.50	U
59-50-7	4-Chloro-3-methylphenol	0.50	U
91-57-6	2-Methylnaphthalene	0.50	U
77-47-4	Hexachlorocyclopentadiene	0.50	U
88-06-2	2,4,6-Trichlorophenol	0.50	U
95-95-4	2,4,5-Trichlorophenol	0.50	U
92-52-4	1,1'-Biphenyl	0.50	U
91-58-7	2-Chloronaphthalene	0.50	U
88-74-4	2-Nitroaniline	1.0	U
131-11-3	Dimethylphthalate	0.50	U
606-20-2	2,6-Dinitrotoluene	0.50	U
208-96-8	Acenaphthylene	0.50	U
99-09-2	3-Nitroaniline	1.0	U
83-32-9	Acenaphthene	0.50	U
51-28-5	2,4-Dinitrophenol	2.5	U
100-02-7	4-Nitrophenol	1.0	U
132-64-9	Dibenzofuran	0.50	U
121-14-2	2,4-Dinitrotoluene	0.50	U

8/13/08

SOM01.2 (6/2007)

BREMERTON-012771

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K60

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0911.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0663

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	0.50	U
86-73-7	Fluorene	0.50	U
7005-72-3	4-Chlorophenyl-phenylether	0.50	U
100-01-6	4-Nitroaniline	1.0	U
534-52-1	4,6-Dinitro-2-methylphenol	1.0	U
86-30-6	N-Nitrosodiphenylamine 1	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.50	U
101-55-3	4-Bromophenyl-phenylether	0.50	U
118-74-1	Hexachlorobenzene	0.50	U
1912-24-9	Atrazine	0.50	U
87-86-5	Pentachlorophenol	0.50	U
85-01-8	Phenanthrene	0.50	U
120-12-7	Anthracene	0.50	U
86-74-8	Carbazole	0.50	U
84-74-2	Di-n-butylphthalate	0.50	U
206-44-0	Fluoranthene	0.50	U
129-00-0	Pyrene	0.50	U
85-68-7	Butylbenzylphthalate	0.33	JQ
91-94-1	3,3'-Dichlorobenzidine	0.50	U
56-55-3	Benzo(a)anthracene	0.50	U
218-01-9	Chrysene	0.50	U
117-81-7	Bis(2-ethylhexyl)phthalate	0.33	JQ
117-84-0	Di-n-octylphthalate	0.50	U
205-99-2	Benzo(b)fluoranthene	0.50	U
207-08-9	Benzo(k)fluoranthene	0.50	U
50-32-8	Benzo(a)pyrene	0.50	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.50	U
53-70-3	Dibenzo(a,h)anthracene	0.50	U
191-24-2	Benzo(g,h,i)perylene	0.50	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.50	U
92-87-5	Benzidine	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	UJ
106-46-7	1,4-Dichlorobenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
62-75-9	N-Nitrosodimethylamine	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U

1 Cannot be separated from Diphenylamine

8/13/08

SOM01.2 (6/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K60

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0911.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0663

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.4 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.34	1.8	JN
02		Unknown-02	2.54	1.1	J
03		Unknown-03	3.18	2.3	J
04	000108-90-7	Benzene, chloro-	3.26	2.8	NJ
05		Unknown-04	10.37	1.2	JN
06		Unknown-05	17.15	1.2	J
07		Unknown-06	17.37	0.98	J
08		Unknown-07	18.15	0.76	J
09		Unknown-08	18.32	1.5	J
10		Unknown-09	18.60	1.2	J
11		Unknown-10	18.74	0.87	J
12		Unknown-11	18.92	1.0	J
13		Unknown-12	21.30	0.74	J
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/13/08

Repeat All PAH's from this run

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K60

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0911.01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0787

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) N pH: 5.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	0.47	
91-57-6	2-Methylnaphthalene	0.13	
208-96-8	Acenaphthylene	0.050	U
83-32-9	Acenaphthene	0.050	U
86-73-7	Fluorene	0.050	U
87-86-5	Pentachlorophenol	0.10	U
85-01-8	Phenanthrene	0.050	U
120-12-7	Anthracene	0.050	U
206-44-0	Fluoranthene	0.050	U
129-00-0	Pyrene	0.050	U
56-55-3	Benzo(a)anthracene	0.050	U
218-01-9	Chrysene	0.050	U
205-99-2	Benzo(b)fluoranthene	0.050	U
207-08-9	Benzo(k)fluoranthene	0.050	U
50-32-8	Benzo(a)pyrene	0.050	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.050	U
53-70-3	Dibenzo(a,h)anthracene	0.050	U
191-24-2	Benzo(g,h,i)perylene	0.050	U

[1] Cannot be separated from Diphenylamine

8/13/08

SOM01.2 (6/2007)

Report All but Benzene, Ethylbenzene & Naphthalene

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K67

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.12

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14315

Level: (TRACE/LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 100.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	25	UJ
74-87-3	Chloromethane	25	U
75-01-4	Vinyl chloride	25	U
74-83-9	Bromomethane	25	U
75-00-3	Chloroethane	25	U
75-69-4	Trichlorofluoromethane	25	U
75-35-4	1,1-Dichloroethene	25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25	U
67-64-1	Acetone	500	U
75-15-0	Carbon disulfide	25	U
79-20-9	Methyl acetate	25	U
75-09-2	Methylene chloride	25	U
156-60-5	trans-1,2-Dichloroethene	25	U
1634-04-4	Methyl tert-butyl ether	25	U
75-34-3	1,1-Dichloroethane	25	U
156-59-2	cis-1,2-Dichloroethene	25	U
78-93-3	2-Butanone	500	U
74-97-5	Bromochloromethane	25	U
67-66-3	Chloroform	25	U
71-55-6	1,1,1-Trichloroethane	25	U
110-82-7	Cyclohexane	25	U
56-23-5	Carbon tetrachloride	25	U
71-43-2	Benzene	14000	E → Report from J8K67DL
107-06-2	1,2-Dichloroethane	25	UJ
79-01-6	Trichloroethene	25	U
108-87-2	Methylcyclohexane	25	U
78-87-5	1,2-Dichloropropane	25	U
75-27-4	Bromodichloromethane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
108-10-1	4-Methyl-2-pentanone	500	U
108-88-3	Toluene	58	
10061-02-6	trans-1,3-Dichloropropene	25	U
79-00-5	1,1,2-Trichloroethane	25	U

7/31/08

SOM01.2 (6/2007)

99224

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K67

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.12

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14315

Level: (TRACE/LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 100.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
127-18-4	Tetrachloroethene	25	UJ	
591-78-6	2-Hexanone	500	U	
124-48-1	Dibromochloromethane	25	U	
106-93-4	1,2-Dibromoethane	25	U	
108-90-7	Chlorobenzene	25	U	
100-41-4	Ethylbenzene	1500	E	→ Repeat from J8K67DL
95-47-6	o-Xylene	640	J	
179601-23-1	m,p-Xylene	380	J	
100-42-5	Styrene	25	UJ	
75-25-2	Bromoform	25	UJ	
98-82-8	Isopropylbenzene	22	J	Q
79-34-5	1,1,2,2-Tetrachloroethane	25	UJ	
541-73-1	1,3-Dichlorobenzene	25	U	
106-46-7	1,4-Dichlorobenzene	25	U	
95-50-1	1,2-Dichlorobenzene	25	U	
96-12-8	1,2-Dibromo-3-chloropropane	25	U	
120-82-1	1,2,4-Trichlorobenzene	50	U	
87-61-6	1,2,3-Trichlorobenzene	50	U	
87-68-3	Hexachlorobutadiene	25	U	
67-72-1	Hexachloroethane	100	U	
91-20-3	Naphthalene	12000	E	→ Repeat from J8K67DL
630-20-6	1,1,1,2-Tetrachloroethane	25	UJ	
96-18-4	1,2,3-Trichloropropane	25	UJ	

7/31/08

SOM01.2 (6/2007) 58225

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K67

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.12

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14315

Level: (TRACE or LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 100.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000526-73-8	Benzene, 1,2,3-trimethyl-	17.31	380	NJ
02	000496-11-7	Indane	18.31	2500	NJ
03	000095-13-6	Indene	18.91	510	NJ
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

7/31/08

Report Only Benzene, Ethylbenzene & Naphthalene

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K67DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.12DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14318

Level: (TRACE/LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1000.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250	U
67-64-1	Acetone	5000	U
75-15-0	Carbon disulfide	250	U
79-20-9	Methyl acetate	250	U
75-09-2	Methylene chloride	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
78-93-3	2-Butanone	5000	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
71-55-6	1,1,1-Trichloroethane	250	U
110-82-7	Cyclohexane	250	U
56-23-5	Carbon tetrachloride	250	U
71-43-2	Benzene	3100	J → Report
107-06-2	1,2-Dichloroethane	250	U
79-01-6	Trichloroethene	250	U
108-87-2	Methylcyclohexane	250	U
78-87-5	1,2-Dichloropropane	250	U
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	5000	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U

7/31/08

BREMERTON-012778

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K67DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.12DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14318

Level: (TRACE/LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1000.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	5000	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	190	~~J~~ → Report
95-47-6	o-Xylene	250	U
179601-23-1	m,p-Xylene	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	500	U
87-61-6	1,2,3-Trichlorobenzene	500	U
87-68-3	Hexachlorobutadiene	250	U
67-72-1	Hexachloroethane	1000	U
91-20-3	Naphthalene	380	~~J~~ → Report
630-20-6	1,1,1,2-Tetrachloroethane	250	U
96-18-4	1,2,3-Trichloropropane	250	U

7/31/08

BREMERTON-012779

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K67DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.12DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14318

Level: (TRACE or LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1000.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.00	740	DJ
02		Unknown-02	3.33	680	DJ
03		Unknown-03	12.12	2000	DJ
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
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19					
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21					
22					
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24					
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A		

1 EPA-designated Registry Number.

SOM01.2 (6/2007)

7/31/08

Repot All from this run except those specified

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. J8K67

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.12

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0665

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
100-52-7	Benzaldehyde	0.50	U	
108-95-2	Phenol	18	E	→ Repot from J8K67DL
111-44-4	Bis(2-chloroethyl)ether	0.50	U	
95-57-8	2-Chlorophenol	0.50	U	
95-48-7	2-Methylphenol	0.64		
108-60-1	2,2'-Oxybis(1-chloropropane)	0.50	U	
98-86-2	Acetophenone	3.8		
106-44-5	4-Methylphenol	2.3		
621-64-7	N-Nitroso-di-n-propylamine	0.50	U	
67-72-1	Hexachloroethane	0.50	U	
98-95-3	Nitrobenzene	0.50	U	
78-59-1	Isophorone	0.50	U	
88-75-5	2-Nitrophenol	0.50	U	
105-67-9	2,4-Dimethylphenol	14	E	→ Repot from J8K67DL
111-91-1	Bis(2-chloroethoxy)methane	0.50	U	
120-83-2	2,4-Dichlorophenol	0.50	U	
91-20-3	Naphthalene	120	E	→ Repot from J8K67DL2
106-47-8	4-Chloroaniline	0.50	U	
87-68-3	Hexachlorobutadiene	0.50	U	
105-60-2	Caprolactam	0.50	U	
59-50-7	4-Chloro-3-methylphenol	0.50	U	
91-57-6	2-Methylnaphthalene	53	E	→ Repot from J8K67DL
77-47-4	Hexachlorocyclopentadiene	0.50	U	
88-06-2	2,4,6-Trichlorophenol	0.50	U	
95-95-4	2,4,5-Trichlorophenol	0.50	U	
92-52-4	1,1'-Biphenyl	6.3		
91-58-7	2-Chloronaphthalene	0.50	U	
88-74-4	2-Nitroaniline	1.0	U	
131-11-3	Dimethylphthalate	0.50	U	
606-20-2	2,6-Dinitrotoluene	0.50	U	
208-96-8	Acenaphthylene	2.0		
99-09-2	3-Nitroaniline	1.0	U	
83-32-9	Acenaphthene	20	E	→ Repot from J8K67DL
51-28-5	2,4-Dinitrophenol	2.5	U	
100-02-7	4-Nitrophenol	1.0	U	
132-64-9	Dibenzofuran	1.1		
121-14-2	2,4-Dinitrotoluene	0.50	U	

8/13/08

SOMO1.2 (6/2007)

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K67

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.12

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0665

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
84-66-2	Diethylphthalate	0.41	J Q	
86-73-7	Fluorene	6.1		
7005-72-3	4-Chlorophenyl-phenylether	0.50	U	
100-01-6	4-Nitroaniline	1.0	U	
534-52-1	4,6-Dinitro-2-methylphenol	1.0	U	
86-30-6	N-Nitrosodiphenylamine 1	0.50	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	0.50	U	
101-55-3	4-Bromophenyl-phenylether	0.50	U	
118-74-1	Hexachlorobenzene	0.50	U	
1912-24-9	Atrazine	0.50	U	
87-86-5	Pentachlorophenol	0.50	U	
85-01-8	Phenanthrene	6.7		
120-12-7	Anthracene	0.97		
86-74-8	Carbazole	13	E	→ Report from J8K67DL
84-74-2	Di-n-butylphthalate	0.50	U	
206-44-0	Fluoranthene	1.5		
129-00-0	Pyrene	1.6		
85-68-7	Butylbenzylphthalate	1.0		
91-94-1	3,3'-Dichlorobenzidine	0.50	U	
56-55-3	Benzo(a)anthracene	0.50	U	
218-01-9	Chrysene	0.50	U	
117-81-7	Bis(2-ethylhexyl)phthalate	0.78		
117-84-0	Di-n-octylphthalate	0.50	U	
205-99-2	Benzo(b)fluoranthene	0.50	U	
207-08-9	Benzo(k)fluoranthene	0.50	U	
50-32-8	Benzo(a)pyrene	0.50	U	
193-39-5	Indeno(1,2,3-cd)pyrene	0.50	U	
53-70-3	Dibenzo(a,h)anthracene	0.50	U	
191-24-2	Benzo(g,h,i)perylene	0.50	U	
58-90-2	2,3,4,6-Tetrachlorophenol	0.50	U	
92-87-5	Benzidine	0.50	U	
95-50-1	1,2-Dichlorobenzene	0.50	U J	
106-46-7	1,4-Dichlorobenzene	0.50	U	
541-73-1	1,3-Dichlorobenzene	0.50	U	
62-75-9	N-Nitrosodimethylamine	0.50	U	
95-63-6	1,2,4-Trimethylbenzene	8.9	E	→ Report from J8K67DL
108-67-8	1,3,5-Trimethylbenzene	57	E	→ Report from J8K67DL

1 Cannot be separated from Diphenylamine

8/13/08

BREMERTON-012782

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K67

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.12

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0665

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.6 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.56	2.4	JN
02		Unknown-02	3.22	1.9	J
03		Unknown-03	4.45	2.5	J
04	000611-14-3	Benzene, 1-ethyl-2-methyl-	5.03	6.5	NJ
05	000271-89-6	Benzofuran	5.61	15	NJ
06	000526-73-8	Benzene, 1,2,3-trimethyl-	6.02	18	NJ
07		Unknown-04	6.27	100	JN
08	000095-13-6	Indene	6.41	50	NJ
09		Unknown-05	11.06	2.9	JN
10		Unknown-06	11.23	2.1	JN
11	001127-76-0	Naphthalene, 1-ethyl-	11.57	5.5	NJ
12		Unknown-07	11.71	4.4	JN
13	000575-41-7	Naphthalene, 1,3-dimethyl-	11.87	3.4	NJ
14	000575-43-9	Naphthalene, 1,6-dimethyl-	11.90	2.2	NJ
15	000571-58-4	Naphthalene, 1,4-dimethyl-	12.07	2.7	NJ
16		Unknown-08	12.34	1.8	JN
17	000613-46-7	2-Naphthalenecarbonitrile	12.60	2.1	NJ
18	000090-15-3	1-Naphthalenol	12.70	3.5	NJ
19		Unknown-09	12.98	2.5	JN
20		Unknown-10	13.02	1.9	JN
21	000480-91-1	Phthalimidine	13.12	4.2	NJ
22		Unknown-11	13.41	1.8	JN
23	000491-30-5	1(2H)-Isoquinolinone	14.09	2.6	NJ
24		Unknown-12	18.33	2.3	JN
25	000205-99-2	Benz[e]acephenanthrylene	18.59	2.6	NJ
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/13/08

BREMERTON-012783

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K67DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.12DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0677

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.6 Dilution Factor: 5.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
100-52-7	Benzaldehyde	2.5	U	
108-95-2	Phenol	33	~~U~~	→ Report
111-44-4	Bis(2-chloroethyl)ether	2.5	U	
95-57-8	2-Chlorophenol	2.5	U	
95-48-7	2-Methylphenol	1.3	DJ	
108-60-1	2,2'-Oxybis(1-chloropropane)	2.5	U	
98-86-2	Acetophenone	7.0	D	
106-44-5	4-Methylphenol	4.1	D	
621-64-7	N-Nitroso-di-n-propylamine	2.5	U	
67-72-1	Hexachloroethane	2.5	U	
98-95-3	Nitrobenzene	2.5	U	
78-59-1	Isophorone	2.5	U	
88-75-5	2-Nitrophenol	2.5	U	
105-67-9	2,4-Dimethylphenol	32	~~U~~	→ Report
111-91-1	Bis(2-chloroethoxy)methane	2.5	U	
120-83-2	2,4-Dichlorophenol	2.5	U	
91-20-3	Naphthalene	540	DE	
106-47-8	4-Chloroaniline	2.5	U	
87-68-3	Hexachlorobutadiene	2.5	U	
105-60-2	Caprolactam	2.5	U	
59-50-7	4-Chloro-3-methylphenol	2.5	U	
91-57-6	2-Methylnaphthalene	170	~~DEJ~~	→ Report
77-47-4	Hexachlorocyclopentadiene	2.5	U	
88-06-2	2,4,6-Trichlorophenol	2.5	U	
95-95-4	2,4,5-Trichlorophenol	2.5	U	
92-52-4	1,1'-Biphenyl	13	D	
91-58-7	2-Chloronaphthalene	2.5	U	
88-74-4	2-Nitroaniline	5.0	U	
131-11-3	Dimethylphthalate	2.5	U	
606-20-2	2,6-Dinitrotoluene	2.5	U	
208-96-8	Acenaphthylene	3.9	D	
99-09-2	3-Nitroaniline	5.0	U	
83-32-9	Acenaphthene	38	~~U~~	→ Report
51-28-5	2,4-Dinitrophenol	13	U	
100-02-7	4-Nitrophenol	5.0	U	
132-64-9	Dibenzofuran	2.3	DJ	
121-14-2	2,4-Dinitrotoluene	2.5	U	

8/13/08

SOM01.2 (6/2007)

BREMERTON-012784

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K67DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.12DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0677

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.6 Dilution Factor: 5.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	2.5	U
86-73-7	Fluorene	12	D
7005-72-3	4-Chlorophenyl-phenylether	2.5	U
100-01-6	4-Nitroaniline	5.0	U
534-52-1	4,6-Dinitro-2-methylphenol	5.0	U
86-30-6	N-Nitrosodiphenylamine 1	2.5	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.5	U
101-55-3	4-Bromophenyl-phenylether	2.5	U
118-74-1	Hexachlorobenzene	2.5	U
1912-24-9	Atrazine	2.5	U
87-86-5	Pentachlorophenol	2.5	U
85-01-8	Phenanthrene	13	D
120-12-7	Anthracene	2.0	DJ
86-74-8	Carbazole	24	D → Report
84-74-2	Di-n-butylphthalate	2.5	U
206-44-0	Fluoranthene	2.9	D
129-00-0	Pyrene	3.2	D
85-68-7	Butylbenzylphthalate	1.8	DJ
91-94-1	3,3'-Dichlorobenzidine	2.5	U
56-55-3	Benzo(a)anthracene	2.5	U
218-01-9	Chrysene	2.5	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.7	DJ
117-84-0	Di-n-octylphthalate	2.5	U
205-99-2	Benzo(b)fluoranthene	2.5	U
207-08-9	Benzo(k)fluoranthene	2.5	U
50-32-8	Benzo(a)pyrene	2.5	U
193-39-5	Indeno(1,2,3-cd)pyrene	2.5	U
53-70-3	Dibenzo(a,h)anthracene	2.5	U
191-24-2	Benzo(g,h,i)perylene	2.5	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.5	U
92-67-1	Benzidine	2.5	U
95-50-1	1,2-Dichlorobenzene	2.5	U
106-46-7	1,4-Dichlorobenzene	2.5	U
541-73-1	1,3-Dichlorobenzene	2.5	U
62-75-9	N-Nitrosodimethylamine	2.5	U
95-63-6	1,2,4-Trimethylbenzene	16	→ Report
108-67-8	1,3,5-Trimethylbenzene	98	J → "

1 Cannot be separated from Diphenylamine

6/13/08

BREMERTON-012785

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K67DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.12DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0677

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.6 Dilution Factor: 5.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.34	24	DJ
02	001462-03-9	Cyclopentanol, 1-methyl-	2.56	21	DNJ
03		Unknown-02	3.18	19	DJ
04		Unknown-03	3.27	11	DJ
05	000098-82-8	Benzene, (1-methylethyl)-	4.40	14	DNJ
06		Unknown-04	4.45	20	DJ
07	000637-50-3	Benzene, 1-propenyl-	4.75	13	DNJ
08		Unknown-05	4.87	11	DJ
09	000611-14-3	Benzene, 1-ethyl-2-methyl-	5.02	59	DNJ
10		Unknown-06	5.60	140	DJ
11	000526-73-8	Benzene, 1,2,3-trimethyl-	6.02	160	DNJ
12	000496-11-7	Indane	6.25	840	DNJ
13	000673-32-5	Benzene, 1-propynyl-	6.40	420	DNJ
14		Unknown-07	6.98	11	DJ
15		Unknown-08	7.38	14	DJ
16	000767-59-9	1H-Indene, 1-methyl-	8.17	40	DNJ
17	000095-15-8	Benzo[b]thiophene	8.78	79	DNJ
18	000083-33-0	1H-Inden-1-one, 2,3-dihydro-	10.07	18	DNJ
19		Unknown-09	10.42	21	DJ
20	000090-12-0	Naphthalene, 1-methyl-	10.52	110	DNJ
21		Unknown-10	11.56	15	DJ
22	000582-16-1	Naphthalene, 2,7-dimethyl-	11.71	16	DNJ
23	000581-40-8	Naphthalene, 2,3-dimethyl-	11.86	12	DNJ
24	000613-46-7	2-Naphthalenecarbonitrile	12.59	12	DNJ
25	000491-35-5	1(2H)-Isoquinolinone	14.03	27	DNJ
26	002721-59-7	2(1H)-Quinolinone, 3-methyl-	14.22	12	DNJ
27		Unknown-11	24.61	12	DJ
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/13/08

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K67DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.12DL2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0679

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.6 Dilution Factor: 500.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	250	U
108-95-2	Phenol	250	U
111-44-4	Bis(2-chloroethyl)ether	250	U
95-57-8	2-Chlorophenol	250	U
95-48-7	2-Methylphenol	250	U
108-60-1	2,2'-Oxybis(1-chloropropane)	250	U
98-86-2	Acetophenone	250	U
106-44-5	4-Methylphenol	250	U
621-64-7	N-Nitroso-di-n-propylamine	250	U
67-72-1	Hexachloroethane	250	U
98-95-3	Nitrobenzene	250	U
78-59-1	Isophorone	250	U
88-75-5	2-Nitrophenol	250	U
105-67-9	2,4-Dimethylphenol	250	U
111-91-1	Bis(2-chloroethoxy)methane	250	U
120-83-2	2,4-Dichlorophenol	250	U
91-20-3	Naphthalene	1800	Ø → Report
106-47-8	4-Chloroaniline	250	U
87-68-3	Hexachlorobutadiene	250	U
105-60-2	Caprolactam	250	U
59-50-7	4-Chloro-3-methylphenol	250	U
91-57-6	2-Methylnaphthalene	140	DJ
77-47-4	Hexachlorocyclopentadiene	250	U
88-06-2	2,4,6-Trichlorophenol	250	U
95-95-4	2,4,5-Trichlorophenol	250	U
92-52-4	1,1'-Biphenyl	250	U
91-58-7	2-Chloronaphthalene	250	U
88-74-4	2-Nitroaniline	500	U
131-11-3	Dimethylphthalate	250	U
606-20-2	2,6-Dinitrotoluene	250	U
208-96-8	Acenaphthylene	250	U
99-09-2	3-Nitroaniline	500	U
83-32-9	Acenaphthene	250	U
51-28-5	2,4-Dinitrophenol	1300	U
100-02-7	4-Nitrophenol	500	U
132-64-9	Dibenzofuran	250	U
[illegible]	[illegible]	[illegible]	[illegible]

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K67DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.12DL2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0679

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.6 Dilution Factor: 500.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
84-66-2	Diethylphthalate	250	U
86-73-7	Fluorene	250	U
7005-72-3	4-Chlorophenyl-phenylether	250	U
100-01-6	4-Nitroaniline	500	U
534-52-1	4,6-Dinitro-2-methylphenol	500	U
86-30-6	N-Nitrosodiphenylamine 1	250	U
95-94-3	1,2,4,5-Tetrachlorobenzene	250	U
101-55-3	4-Bromophenyl-phenylether	250	U
118-74-1	Hexachlorobenzene	250	U
1912-24-9	Atrazine	250	U
87-86-5	Pentachlorophenol	250	U
85-01-8	Phenanthrene	250	U
120-12-7	Anthracene	250	U
86-74-8	Carbazole	250	U
84-74-2	Di-n-butylphthalate	250	U
206-44-0	Fluoranthene	250	U
129-00-0	Pyrene	250	U
85-68-7	Butylbenzylphthalate	250	U
91-94-1	3,3'-Dichlorobenzidine	250	U
56-55-3	Benzo(a)anthracene	250	U
218-01-9	Chrysene	250	U
117-81-7	Bis(2-ethylhexyl)phthalate	250	U
117-84-0	Di-n-octylphthalate	250	U
205-99-2	Benzo(b)fluoranthene	250	U
207-08-9	Benzo(k)fluoranthene	250	U
50-32-8	Benzo(a)pyrene	250	U
193-39-5	Indeno(1,2,3-cd)pyrene	250	U
53-70-3	Dibenzo(a,h)anthracene	250	U
191-24-2	Benzo(g,h,i)perylene	250	U
58-90-2	2,3,4,6-Tetrachlorophenol	250	U
92-87-5	Benzidine	250	U
95-50-1	1,2-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
541-73-1	1,3-Dichlorobenzene	250	U
62-75-9	N-Nitrosodimethylamine	250	U
95-63-6	1,2,4-Trimethylbenzene	250	U
108-67-8	1,3,5-Trimethylbenzene	250	U

1 Cannot be separated from Diphenylamine

8/13/08

BREMERTON-012788

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K67DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.12DL2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0679

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/07/2008

GPC Cleanup: (Y/N) N pH: 5.6 Dilution Factor: 500.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	17.97	650	DJ
02		Unknown-02	19.05	730	DJ
03		Unknown-03	21.94	650	DJ
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/13/08

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K67

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.12

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0792

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) N pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)UG/L	Q	
91-20-3	Naphthalene	580	E	→ Repeat from J8K67DL CAH
91-57-6	2-Methylnaphthalene	130	E	→ Repeat from J8K67PL
208-96-8	Acenaphthylene	3.0	E	→ " J8K67
83-32-9	Acenaphthene	32	E	→ " J8K67DL
86-73-7	Fluorene	7.8	E	→ " J8K67CB
87-86-5	Pentachlorophenol	0.10	U	→ Repeat
85-01-8	Phenanthrene	15	E	→ Repeat from J8K67H
120-12-7	Anthracene	2.6	E	→ " J8K67DL
206-44-0	Fluoranthene	3.5	E	→ "
129-00-0	Pyrene	4.4	E	→ Repeat from J8K67H
56-55-3	Benzo(a)anthracene	0.56	E	→ " J8K67DL
218-01-9	Chrysene	0.79	E	→ "
205-99-2	Benzo(b)fluoranthene	0.15	J	Repeat
207-08-9	Benzo(k)fluoranthene	0.16	J	
50-32-8	Benzo(a)pyrene	0.25	J	
193-39-5	Indeno(1,2,3-cd)pyrene	0.086	J	
53-70-3	Dibenzo(a,h)anthracene	0.031	J	
191-24-2	Benzo(g,h,i)perylene	0.12	J	

[1] Cannot be separated from Diphenylamine

9/13/08

SOM01.2 (6/2007)

BREMERTON-012790

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K67DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0912.12DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: G0808

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/18/2008

Injection Volume: 1.0 (uL) GPC Factor: _____ Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) N pH: 5.6 Dilution Factor: 10.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
91-20-3	Naphthalene	1500	DE
91-57-6	2-Methylnaphthalene	110	DE
208-96-8	Acenaphthylene	4.3	~~D~~ → Report
83-32-9	Acenaphthene	43	DE
86-73-7	Fluorene	12	DE
87-86-5	Pentachlorophenol	1.0	U
85-01-8	Phenanthrene	15	DE
120-12-7	Anthracene	2.9	~~D~~ → "
206-44-0	Fluoranthene	3.7	~~D~~ → "
129-00-0	Pyrene	5.3	DE
56-55-3	Benzo(a)anthracene	0.56	~~D~~ → "
218-01-9	Chrysene	0.92	~~D~~ → "
205-99-2	Benzo(b)fluoranthene	0.30	DJ
207-08-9	Benzo(k)fluoranthene	0.37	DJ
50-32-8	Benzo(a)pyrene	0.51	D
193-39-5	Indeno(1,2,3-cd)pyrene	0.31	DJ
53-70-3	Dibenzo(a,h)anthracene	0.50	U
191-24-2	Benzo(g,h,i)perylene	0.53	D

1 Cannot be separated from Diphenylamine

8/13/08

SOM01.2 (6 2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K85

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.02

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14221

Level: (TRACE/LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.25	U
74-87-3	Chloromethane	0.25	U
75-01-4	Vinyl chloride	0.25	U
74-83-9	Bromomethane	0.25	U
75-00-3	Chloroethane	0.25	U
75-69-4	Trichlorofluoromethane	0.25	U
75-35-4	1,1-Dichloroethene	0.25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.25	U
79-20-9	Methyl acetate	0.25	U
75-09-2	Methylene chloride	0.25	UJ
156-60-5	trans-1,2-Dichloroethene	0.25	U
1634-04-4	Methyl tert-butyl ether	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U
156-59-2	cis-1,2-Dichloroethene	0.25	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.25	U
67-66-3	Chloroform	0.25	U
71-55-6	1,1,1-Trichloroethane	0.25	U
110-82-7	Cyclohexane	0.25	U
56-23-5	Carbon tetrachloride	0.25	U
71-43-2	Benzene	0.25	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
108-87-2	Methylcyclohexane	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U

8/4/08

SOM01.2 (8/2007)

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K85

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.02

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14221

Level: (TRACE/LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	0.25	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.25	U
106-93-4	1,2-Dibromoethane	0.25	U
108-90-7	Chlorobenzene	0.25	U
100-41-4	Ethylbenzene	0.25	U
95-47-6	o-Xylene	0.25	U
179601-23-1	m,p-Xylene	0.25	U
100-42-5	Styrene	0.25	U
75-25-2	Bromoform	0.25	U
98-82-8	Isopropylbenzene	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.25	U
67-72-1	Hexachloroethane	1.0	U
91-20-3	Naphthalene	0.25	UJ
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
96-18-4	1,2,3-Trichloropropane	0.25	U

8/14/08

BREMERTON-012793

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K85

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.02

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14221

Level: (TRACE or LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.98	0.59	JN
02		Unknown-02	11.87	2.1	JN
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/4/08

BREMERTON-012794

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K86

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.03

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14222

Level: (TRACE/LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.25	U
74-87-3	Chloromethane	0.25	U
75-01-4	Vinyl chloride	0.25	U
74-83-9	Bromomethane	0.25	U
75-00-3	Chloroethane	0.25	U
75-69-4	Trichlorofluoromethane	0.25	U
75-35-4	1,1-Dichloroethene	0.25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.25	U
79-20-9	Methyl acetate	0.25	U
75-09-2	Methylene chloride	0.25	UJ
156-60-5	trans-1,2-Dichloroethene	0.25	U
1634-04-4	Methyl tert-butyl ether	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U
156-59-2	cis-1,2-Dichloroethene	0.25	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.25	U
67-66-3	Chloroform	1.4	
71-55-6	1,1,1-Trichloroethane	0.25	U
110-82-7	Cyclohexane	0.25	U
56-23-5	Carbon tetrachloride	0.25	U
71-43-2	Benzene	0.25	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
108-87-2	Methylcyclohexane	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U

8/4/08 SOMC1.2 (6/2007) 88268

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K86

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.03

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14222

Level: (TRACE/LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	0.25	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.25	U
106-93-4	1,2-Dibromoethane	0.25	U
108-90-7	Chlorobenzene	0.25	U
100-41-4	Ethylbenzene	0.25	U
95-47-6	o-Xylene	0.25	U
179601-23-1	m,p-Xylene	0.25	U
100-42-5	Styrene	0.25	U
75-25-2	Bromoform	0.25	U
98-82-8	Isopropylbenzene	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.25	U
67-72-1	Hexachloroethane	1.0	U
91-20-3	Naphthalene	0.25	UJ
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
96-18-4	1,2,3-Trichloropropane	0.25	U

8/4/08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K86

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.03

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14222

Level: (TRACE or LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.96	0.60	JN
02		Unknown-02	3.32	0.38	J
03		Unknown-03	11.87	2.0	J
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796'	Total Alkanes	N/A		

' EPA-designated Registry Number.

SOM01.2 (6/2007)

8/4/08

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K87

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0903.05

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14212

Level: (TRACE/LOW/MED) TRACE Date Received: 05/15/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.25	U
74-87-3	Chloromethane	0.25	U
75-01-4	Vinyl chloride	0.25	U
74-83-9	Bromomethane	0.25	U
75-00-3	Chloroethane	0.25	U
75-69-4	Trichlorofluoromethane	0.25	U
75-35-4	1,1-Dichloroethene	0.25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.25	U
79-20-9	Methyl acetate	0.25	U
75-09-2	Methylene chloride	0.25	UJ
156-60-5	trans-1,2-Dichloroethene	0.25	U
1634-04-4	Methyl tert-butyl ether	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U
156-59-2	cis-1,2-Dichloroethene	0.25	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.25	U
67-66-3	Chloroform	0.25	U
71-55-6	1,1,1-Trichloroethane	0.25	U
110-82-7	Cyclohexane	0.25	U
56-23-5	Carbon tetrachloride	0.25	U
71-43-2	Benzene	0.25	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
108-87-2	Methylcyclohexane	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U

7/31/08

SOM01.2 (6/2007) 000253

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K87

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0903.05

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14212

Level: (TRACE/LOW/MED) TRACE Date Received: 05/15/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	0.25	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.25	U
106-93-4	1,2-Dibromoethane	0.25	U
108-90-7	Chlorobenzene	0.25	U
100-41-4	Ethylbenzene	0.25	U
95-47-6	o-Xylene	0.25	U
179601-23-1	m,p-Xylene	0.25	U
100-42-5	Styrene	0.25	U
75-25-2	Bromoform	0.25	U
98-82-8	Isopropylbenzene	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.25	U
67-72-1	Hexachloroethane	1.0	U
91-20-3	Naphthalene	0.25	UJ
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
96-18-4	1,2,3-Trichloropropane	0.25	U

7/31/08

BREMERTON-012799

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K87

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0903.05

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14212

Level: (TRACE or LOW/MED) TRACE Date Received: 05/15/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.97	0.50	JN
02		Unknown-02	3.36	0.38	JN
03		Unknown-03	11.87	2.1	JN
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

7/31/08

99285

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K88

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0908.10

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14214

Level: (TRACE/LOW/MED) TRACE Date Received: 05/16/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.25	U
74-87-3	Chloromethane	0.25	U
75-01-4	Vinyl chloride	0.25	U
74-83-9	Bromomethane	0.25	U
75-00-3	Chloroethane	0.25	U
75-69-4	Trichlorofluoromethane	0.25	U
75-35-4	1,1-Dichloroethene	0.25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.25	U
79-20-9	Methyl acetate	0.25	U
75-09-2	Methylene chloride	0.25	U J
156-60-5	trans-1,2-Dichloroethene	0.25	U
1634-04-4	Methyl tert-butyl ether	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U
156-59-2	cis-1,2-Dichloroethene	0.25	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.25	U
67-66-3	Chloroform	1.2	U MW
71-55-6	1,1,1-Trichloroethane	0.25	U
110-82-7	Cyclohexane	0.25	U
56-23-5	Carbon tetrachloride	0.25	U
71-43-2	Benzene	0.25	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
108-87-2	Methylcyclohexane	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U

7/31/08

SOM01.2 (6/2007) 88297

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K88

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0908.10

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14214

Level: (TRACE/LOW/MED) TRACE Date Received: 05/16/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	0.25	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.25	U
106-93-4	1,2-Dibromoethane	0.25	U
108-90-7	Chlorobenzene	0.25	U
100-41-4	Ethylbenzene	0.25	U
95-47-6	o-Xylene	0.25	U
179601-23-1	m,p-Xylene	0.25	U
100-42-5	Styrene	0.25	U
75-25-2	Bromoform	0.25	U
98-82-8	Isopropylbenzene	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.25	U
67-72-1	Hexachloroethane	1.0	U
91-20-3	Naphthalene	0.25	UJ
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
96-18-4	1,2,3-Trichloropropane	0.25	U

7/31/08

SOM01.2 (6/2007)

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K88

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0908.10

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14214

Level: (TRACE or LOW/MED) TRACE Date Received: 05/16/2008

% Moisture: not dec. _____ Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.96	0.50	JN
02		Unknown-02	3.35	0.45	JN
03		Unknown-03	11.87	2.1	JN
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

7/31/08

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K89

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.06

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14312

Level: (TRACE/LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.25	U
74-87-3	Chloromethane	0.25	U
75-01-4	Vinyl chloride	0.25	U
74-83-9	Bromomethane	0.25	U
75-00-3	Chloroethane	0.25	U
75-69-4	Trichlorofluoromethane	0.25	U
75-35-4	1,1-Dichloroethene	0.25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.25	U
79-20-9	Methyl acetate	0.25	U
75-09-2	Methylene chloride	0.25	U
156-60-5	trans-1,2-Dichloroethene	0.25	U
1634-04-4	Methyl tert-butyl ether	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U
156-59-2	cis-1,2-Dichloroethene	0.25	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.25	U
67-66-3	Chloroform	0.13	J Q
71-55-6	1,1,1-Trichloroethane	0.25	U
110-82-7	Cyclohexane	0.25	U
56-23-5	Carbon tetrachloride	0.25	U
71-43-2	Benzene	0.25	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
108-87-2	Methylcyclohexane	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.13	J Q
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.25	U
10061-02-6	trans-1,3-Dichloropropene	0.13	J Q
79-00-5	1,1,2-Trichloroethane	0.25	U

7/31/08

BREMERTON-012804

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K89

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.06

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14312

Level: (TRACE/LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	0.25	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.25	U
106-93-4	1,2-Dibromoethane	0.25	U
108-90-7	Chlorobenzene	0.25	U
100-41-4	Ethylbenzene	0.25	U
95-47-6	o-Xylene	0.25	U
179601-23-1	m,p-Xylene	0.25	U
100-42-5	Styrene	0.25	U
75-25-2	Bromoform	0.25	U
98-82-8	Isopropylbenzene	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.25	U
67-72-1	Hexachloroethane	1.0	U
91-20-3	Naphthalene	0.25	UJ
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
96-18-4	1,2,3-Trichloropropane	0.25	U

7/31/08

SOM01.2 (6/2007) 99312

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K89

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0913.06

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14312

Level: (TRACE or LOW/MED) TRACE Date Received: 05/17/2008

% Moisture: not dec. _____ Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	12.12	1.8	J N
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
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19					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

7/31/08

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K90

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0920.03

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14421

Level: (TRACE/LOW/MED) TRACE Date Received: 05/21/2008

% Moisture: not dec. _____ Date Analyzed: 05/30/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.25	U
74-87-3	Chloromethane	0.25	U
75-01-4	Vinyl chloride	0.25	U
74-83-9	Bromomethane	0.25	U
75-00-3	Chloroethane	0.25	U
75-69-4	Trichlorofluoromethane	0.25	U
75-35-4	1,1-Dichloroethene	0.25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.25	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.25	U
79-20-9	Methyl acetate	0.25	U
75-09-2	Methylene chloride	0.31	BJ
156-60-5	trans-1,2-Dichloroethene	0.25	U
1634-04-4	Methyl tert-butyl ether	0.25	U
75-34-3	1,1-Dichloroethane	0.25	U
156-59-2	cis-1,2-Dichloroethene	0.25	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.25	U
67-66-3	Chloroform	0.25	U
71-55-6	1,1,1-Trichloroethane	0.25	U
110-82-7	Cyclohexane	0.25	U
56-23-5	Carbon tetrachloride	0.25	U
71-43-2	Benzene	0.25	U
107-06-2	1,2-Dichloroethane	0.25	U
79-01-6	Trichloroethene	0.25	U
108-87-2	Methylcyclohexane	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.24	J Q
10061-02-6	trans-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U

7/31/08

SOM01.2 (6/2007)

BREMERTON-012807

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K90

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0920.03

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14421

Level: (TRACE/LOW/MED) TRACE Date Received: 05/21/2008

% Moisture: not dec. _____ Date Analyzed: 05/30/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	0.25	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.25	U
106-93-4	1,2-Dibromoethane	0.25	U
108-90-7	Chlorobenzene	0.25	U
100-41-4	Ethylbenzene	0.25	U
95-47-6	o-Xylene	0.25	U
179601-23-1	m,p-Xylene	0.25	U
100-42-5	Styrene	0.25	U
75-25-2	Bromoform	0.25	U
98-82-8	Isopropylbenzene	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U
541-73-1	1,3-Dichlorobenzene	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
95-50-1	1,2-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.25	U
67-72-1	Hexachloroethane	1.0	U
91-20-3	Naphthalene	0.25	UJ
630-20-6	1,1,1,2-Tetrachloroethane	0.25	U
96-18-4	1,2,3-Trichloropropane	0.25	U

7/31/08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K90

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K50

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0920.03

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A14421

Level: (TRACE or LOW/MED) TRACE Date Received: 05/21/2008

% Moisture: not dec. _____ Date Analyzed: 05/30/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.97	0.85	JN
02		Unknown-02	3.38	0.68	J
03		Unknown-03	11.85	2.1	J
04					
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28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

7/31/08

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: September 19, 2008

TO: Renee Nordeen, START-3 Project Manager, E & E, Seattle, WA

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Summary Check,**
Bremerton Gasworks Properties, Bremerton, Washington

REF: TDD: 07-01-0008 PAN: 002233.0178.01BR

The data summary check of 20 soil samples collected from the Bremerton Gasworks Properties site located in Bremerton, Washington, has been completed. Analysis for organics (EPA CLP SOW SOM01.2) was performed by KAP Technologies, Inc., The Woodlands, Texas.

The samples were numbered:

J8K23	J8K24	J8K25	J8K26	J8K27
J8K28	J8K44	J8K45	J8K46	J8K49
J8K49	J8K54	J8K55	J8K56	J8K57
J8K61	J8K62	J8K82	J8K83	J8K84

No discrepancies were noted.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, Washington 98101

August 25, 2008

Reply to
Attn of: OEA-095

MEMORANDUM

Subject: Data Review Report for the Volatile, Semi-Volatile Organic (SVOC / SIM) Analyses of Samples collected from the Bremerton Gasworks Brownfield Site
Case: 37435 SDGs: J8K48

From: Raymond Wu, Chemist
Office of Environmental Assessment 9/11/08

To: Joanne LaBaw, Site Assessment Manager
Office of Environmental Cleanup

CC: Renee Nordeen, Project Manager
Ecology and Environment, Inc.

The quality assurance (QA) review of the analytical data generated from the analysis of 20 soil samples collected from the above referenced site has been completed. Samples were analyzed for Volatile, Semi-Volatile (SVOC/SIM) in accordance with the USEPA Contract Laboratory Program (CLP) Statement of Work (SOW) for Organic Analyses (SOM01.2) by KAP Technologies, Inc. in The Woodlands, Texas. The following samples were evaluated in this validation report:

SDG: J8K48

J8K23	J8K24	J8K25	J8K26	J8K27	J8K28	J8K44
J8K45	J8K46	J8K48	J8K49	J8K54	J8K55	J8K56
J8K57	J8K61	J8K62	J8K82	J8K83	J8K84	

DATA QUALIFICATIONS

The following comments refer to the laboratory performance in meeting the Quality Control specifications outlined in the Sampling and Quality Assurance Plan July 1, 2008, prepared by Ecology and Environment, USEPA CLP SOW for Organic Analysis (SOM01.2, 05/2008), and the applicable criteria set forth in the USEPA Contract Laboratory Program's National Functional Guidelines for Organic Data Review (07/2007). The data reviews conducted on these analyses were based on the QC Forms and Sample Data Summary Forms submitted by the laboratories. Review of the raw data of the analyses was not conducted. The conclusions presented herein are based on the information provided for the review.

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Please note:

1) The original Chain of custody forms had some inconsistencies (eg. sampling date and time, missing preservation information) & they were later reconciled by the sampling contractor. Clarifications were received as emails from the sampling contractor.
2) SVOC sample results were reported from the combination of Full Scan, Full Scan Dilution, SIM and SIM dilution runs.
3) Some of the VOC, SVOC and SIM reporting limits were reported by the contract lab at higher concentration levels than those listed in the QAPP (MA 1568.0).

The samples were evaluated based on the following QC elements:

$ Holding Time
$ Method and Trip Blanks
$ Initial and Continuing Calibration
$ Surrogate Recoveries
$ Lab Control Spike Recovery
$ Target Compound and Reporting Limits
$ GC/MS Spectra Matching Criteria

Overall Assessment

All of the samples met the technical acceptance criteria for each of the QC elements listed above with the exception of the following:

Four ICALs (two VOC, one SVOC & one SIM) were evaluated in this report. They met the technical acceptance criteria for the percent relative standard deviations (%RSDs) and the minimum relative response factors (RRFs) for all target compounds and surrogates with the exception of the following:

5/22/08 @ 14:02 (VOC) & 6/11/08@17:02 (SVOC)

$ The %RSD of Chloroethane (34.1%) in the VOC initial calibration exceeded the control limit of 30%. Recalculation of the %RSD indicated that it was not linear at the high end of the curve and the corresponding samples would be J/None qualified for this analyte.

$ The %RSD of 2-Hexanone (34.5%) in the VOC initial calibration exceeded the control limit of 30%. Recalculation of the %RSDs indicated that it was not linear at the low end of the curve and the corresponding samples would be J/UJ qualified for this analyte.

$ The %RSD of Hexachlorocyclopentadiene (35.6%), 2,4-Dinitrophenol (36.8%) and Pentachlorophenol (37.2%) in the SVOC initial calibration exceeded the control limit of 30%. Recalculation of the %RSDs indicated that they were not linear at the low end of

the curve and the corresponding samples would be J/UJ qualified for those analytes.

$ All of the CCV checks met the criteria for frequency of analysis, the SOW specified, minimum RRFs and %Ds as compared to the initial calibration with the exception of the following:

"VOC"

Date/Time of Analysis/ Inst.	Compound	%D	Qualifier Detect/Non-detect	Associated Samples
05/23/08 18:43 B-5973 (opening ccv)	Naphthalene	38.0	J/None	J8K54 -> J8K57 J8K61 -> J8K62 J8K84

"SVOC"

Date/Time of Analysis/ Inst.	Compound	%D	Qualifier Detect/Non-detect	Associated Samples
06/12/08 07:54 G-5973 (opening ccv)	Pentachlorophenol	29.7	J/None	J8K23, J8K46 J8K57, J8K61 J8K62
06/13/08 08:16 G-5973 (opening ccv)	Di-n-octylphthalate	36.1	J/None	J8K23DL,J8K46DL J8K46DL2,J8K46RE

"SIM"

Date/Time of Analysis/ Inst.	Compound	%D	Qualifier Detect/Non-detect	Associated Samples
06/14/08 13:01 G-5973 (opening ccv)	Benzo(b)fluoranthene	-36.5	J/UJ	J8K24 -> J8K28 J8K44 -> J8K45 J8K48 -> J8K49 J8K54 -> J8K55 J8K82, J8K84
	Benzo(k)fluoranthene	-31.5	J/UJ	"
06/15/08 00:20 G-5973 (opening ccv)	Dibenzo(a,h)anthracene	36.5	J/None	J8K44DL J8K56 -> J8K57 J8K61 -> J8K62 J8K83

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VOC DMCs (Soil)	Recovery Limits (%)	VOC DMCs (Soil)	Recovery Limits (%)
Vinyl Chloride-d3 (VCL)	68-122	1,2-Dichloropropane-d6 (DPA)	74-124
Chloroethane-d5 (CLA)	61-130	Toluene-d8 (TOL)	78-121
1,1-Dichloroethene-d2 (DCE)	45-132	Trans-1,3-Dichloropropene-d4 (TDP)	72-130
2-Butanone-d5 (BUT)	20-182	2-Hexanone-d5 (HEX)	17-184
Chloroform-d (CLF)	72-123	1,4-Dioxane-d8 (DXE)	50-150
1,2-Dichloroethane-d4 (DCA)	79-122	1,1,2,2-Tetrachloroethane-d2 (TCA)	56-161
Benzene-d6 (BEN)	80-121	1,2-Dichlorobenzene-d4 (DCZ)	70-131

All of the volatile surrogate recoveries met the applicable recovery criteria with exception of the following:

"VOC"

Sample	**DMC**	**%Recovery**	**Qualification Detects/Non-detects**	**Associated VOCs**
J8K44	TCA	1033	J/None	1,1,2,2-Tetrachloroethene, 1,2-Dibromo-3-Chloropropane
	DCZ	146	J/None	Trichlorofluoromethane, 1,1-Dichloroethene, 1,1,2-Trichloro-1,2,2-trifluoroethane, Methyl Acetate, Methylene Chloride, Methyl-tert-butyl ether, 1,1,1-Trichloroethane, Carbon tetrachloride, 1,2-Dibromoethane, 1,2-Dichloroethane
J8K56	CLA	148	J/None	Dichlorodifluoromethane, Chloromethane, Bromomethane, Chloroethane, Carbon Disulfide

"SVOC"

SVOC DMCs (Soil)	Recovery Limits (%)	SVOC DMCs (Soil)	Recovery Limits (%)
Phenol-d5 (PHL)	17-103	Dimethylphthalate-d6 (DMP)	43-111
Bis-(2-chloroethyl) ether-d8 (BCE)	12-98	Acenapthylene-d8 (ACY)	20-97
2-chlorophenol-d4 (2CP)	13-101	4-Nitrophenol-d4 (4NP)	16-166
4-Methylphenol-d8 (4MP)	8-100	Fluorene-d10 (FLR)	40-108
Nitrobenzene-d5 (NBZ)	16-103	4,6-Dinitro-2-methylphenol-d2 (NMP)	1-121

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2-Nitrophenol-d4 (2NP)	16-104	Anthracene-d10 (ANC)	22-98
2,4-Dichlorophenol-d3 (DCP)	23-104	Pyrene-d10 (PYR)	51-120
4-chloroaniline-d4 (4CA)	1-145	Benzo(a)pyrene-d12 (BAP)	43-111
Fluoranthene-d10 (FLN)#	50-150	2-Methylnaphthalene-d10 (2MN)#	50-150

# denotes SVOC-SIM surrogates

All of the SVOC/SIM surrogate recoveries met the applicable recovery criteria with exception of the following:

"SVOC / SIM"

Sample	DMC	%Recovery	Qualification Detects/Non-detects	Associated VOCs
J8K46	4NP	264	J/None	2-Nitroaniline, 3-Nitroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, 4-Nitroaniline
J8K57	NMP	141	J/None	4,6-Dinitro-2-methylphenol
	ANC	114	J/None	Hexachlorobenzene, Atrazine, Phenanthrene, Anthracene
	PYR	139	J/None	Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene
	BAP	144	J/None	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene
J8K23	FLN	0	J/UJ	Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene
	2MN	0	J/UJ	Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Fluorene, Pentachlorophenol, Phenanthrene, Anthracene
J8K46	FLN	0	J/UJ	Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene
	2MN	0	J/UJ	Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Fluorene, Pentachlorophenol, Phenanthrene, Anthracene

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J8K56	FLN	37	J/UJ	Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene
	2MN	37	J/UJ	Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Fluorene, Pentachlorophenol, Phenanthrene, Anthracene

Internal Standards

SVOC

The acceptance criteria for internal standards (IS) are +/- 30 seconds for retention time (RT) shifts and -50% to 200% of the IS area as compared to the IS RT and area of the daily continuing calibration standard. All of the results met the IS area and RT shift criteria with exceptions of the following:

- J8K23 - Internal Standard #5 & #6 were higher than the QC limits
- J8K23DL - Internal Standards #1, 2, 3, 4 were higher than the QC limits
- J8K46 - Internal Standards #3, #4, #5 & #6 were higher than the QC limits
- J8K46DL - Internal Standards #1, 2, 3, 4, 5 were lower than the QC limits
- J8K46DL2 - Internal Standards #1, 2, 3, 4, 5, 6 were lower than the QC limits

The corresponding compounds were qualified as J/None. They are as follows:

- J8K23
  For IS #5 (Chrysene-d12) & #6 (Perylene-d12)

  Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Bis(2-ethylhexyl) phthalate, Chrysene

  Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

- J8K46
  For IS #3 (Acenaphthene-d10)

  Hexachlorocyclopentadiene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 2,3,4,6-Tetrachlorophenol, 1,1'-Biphenyl, 2-Chloronaphthalene, 2-Nitroaniline, Dimethylphthalate, Acenaphthylene, 3-Nitroaniline, Acenaphthylene, 3-Nitroaniline, Acenaphthene, 2,4-Dinitrophenol, 4-Nitrophenol, Dibenzofuran, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 1,2,4,5-Tetrachlorobenzene, Diethylphthalate, 4-Chlorophenyl-phenylether, Fluorene, 4-Nitroaniline

The corresponding compounds were qualified as J/UJ. They are as follows:

- J8K23DL
  For IS#1 (1,4-Dichlorobenzene-d4), For IS#2 (Naphthalene-d8), IS#3 (Acenaphthene-d10), IS#4 (Phenanthrene-d10)

  Benzaldehyde, Phenol, Bis(2-chloroethyl) ether, 2-Chlorophenol, 2-Methylphenol, 2,2'-oxybis-(1-chloro-propane), Acetophenone, 4-Methylphenol, N-Nitroso-di-n-propylamine, Hexachloroethane

  Nitrobenzene, Isophorone, 2-Nitrophenol, 2,4-Dimethylphenol, Bis(2-chloroethoxy)methane, 2,4-Dichlorophenol, 4-Chloroaniline, Hexachlorobutadiene, Caprolactam, 4-chloro-3-methylphenol, 2-Methylnaphthalene, Naphthalene

  Hexachlorocyclopentadiene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 2,3,4,6-Tetrachlorophenol, 1,1'-Biphenyl, 2-Chloronaphthalene, 2-Nitroaniline, Dimethylphthalate, Acenaphthylene, 3-Nitroaniline, Acenaphthylene, 3-Nitroaniline, Acenaphthene, 2,4-Dinitrophenol, 4-Nitrophenol, Dibenzofuran, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 1,2,4,5-Tetrachlorobenzene, Diethylphthalate, 4-Chlorophenyl-phenylether, Fluorene, 4-Nitroaniline

  4,6-Dinitro-2-methylphenol, N-Nitrosodiphenylamine, 4-Bromophenyl-phenylether, Hexachlorobenzene, Atrazine, Pentachlorophenol, Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate, Fluoranthene

- J8K46
  For IS#4 (Phenanthrene-d10), IS#5 (Chrysene-d12), IS#6 (Perylene-d12)

  4,6-Dinitro-2-methylphenol, N-Nitrosodiphenylamine, 4-Bromophenyl-phenylether, Hexachlorobenzene, Atrazine, Pentachlorophenol, Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate, Fluoranthene

  Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Bis(2-ethylhexyl) phthalate, Chrysene

  Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

- J8K46DL
  For IS#1 (1,4-Dichlorobenzene-d4), IS#2 (Naphthalene-d8), IS#3 (Acenaphthene-d10), IS#4 (Phenanthrene-d10), IS#5 (Chrysene-d12)

  Benzaldehyde, Phenol, Bis(2-chloroethyl) ether, 2-Chlorophenol, 2-Methylphenol, 2,2'-oxybis-(1-chloro-propane), Acetophenone, 4-Methylphenol, N-Nitroso-di-n-propylamine,

Hexachloroethane

Nitrobenzene, Isophorone, 2-Nitrophenol, 2,4-Dimethylphenol, Bis(2-chloroethoxy)methane, 2,4-Dichlorophenol, 4-Chloroaniline, Hexachlorobutadiene, Caprolactam, 4-chloro-3-methylphenol, 2-Methylnaphthalene, Naphthalene

Hexachlorocyclopentadiene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 2,3,4,6-Tetrachlorophenol, 1,1'-Biphenyl, 2-Chloronaphthalene, 2-Nitroaniline, Dimethylphthalate, Acenaphthylene, 3-Nitroaniline, Acenaphthylene, 3-Nitroaniline, Acenaphthene, 2,4-Dinitrophenol, 4-Nitrophenol, Dibenzofuran, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 1,2,4,5-Tetrachlorobenzene, Diethylphthalate, 4-Chlorophenyl-phenylether, Fluorene, 4-Nitroaniline

4,6-Dinitro-2-methylphenol, N-Nitrosodiphenylamine, 4-Bromophenyl-phenylether, Hexachlorobenzene, Atrazine, Pentachlorophenol, Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate, Fluoranthene

Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Bis(2-ethylhexyl) phthalate, Chrysene

- J8K46DL2
  For IS#1 (1,4-Dichlorobenzene-d4), IS#2 (Naphthalene-d8), IS#3 (Acenaphthene-d10), IS#4 (Phenanthrene-d10), IS#5 (Chrysene-d12), IS#6 (Perylene-d12)

Benzaldehyde, Phenol, Bis(2-chloroethyl) ether, 2-Chlorophenol, 2-Methylphenol, 2,2'-oxybis-(1-chloro-propane), Acetophenone, 4-Methylphenol, N-Nitroso-di-n-propylamine, Hexachloroethane

Nitrobenzene, Isophorone, 2-Nitrophenol, 2,4-Dimethylphenol, Bis(2-chloroethoxy)methane, 2,4-Dichlorophenol, 4-Chloroaniline, Hexachlorobutadiene, Caprolactam, 4-chloro-3-methylphenol, 2-Methylnaphthalene, Naphthalene

Hexachlorocyclopentadiene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 2,3,4,6-Tetrachlorophenol, 1,1'-Biphenyl, 2-Chloronaphthalene, 2-Nitroaniline, Dimethylphthalate, Acenaphthylene, 3-Nitroaniline, Acenaphthylene, 3-Nitroaniline, Acenaphthene, 2,4-Dinitrophenol, 4-Nitrophenol, Dibenzofuran, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 1,2,4,5-Tetrachlorobenzene, Diethylphthalate, 4-Chlorophenyl-phenylether, Fluorene, 4-Nitroaniline

4,6-Dinitro-2-methylphenol, N-Nitrosodiphenylamine, 4-Bromophenyl-phenylether, Hexachlorobenzene, Atrazine, Pentachlorophenol, Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate, Fluoranthene

Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Bis(2-ethylhexyl) phthalate, Chrysene

Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

SIM

The acceptance criteria for internal standards (IS) are +/- 30 seconds for retention time (RT) shifts and -50% to +200% of the IS area as compared to the IS RT and area of the daily continuing calibration standard. All of the results met the IS area and RT shift criteria with exceptions of the following:

- J8K23 - Internal Standards #4 was lower than the QC limits
- J8K56 - Internal Standard #2 & #3 were lower than the QC limits
- J8K84 - Internal Standard #2 & #4 were higher than the QC limits

The corresponding compounds were qualified as J/None. They are as follows:

- J8K84
  For IS #2 (Naphthalene-d8) & IS#4 (Phenanthrene-d10)

  Nitrobenzene, Isophorone, 2-Nitrophenol, 2,4-Dimethylphenol, Bis(2-chloroethoxy)methane, 2,4-Dichlorophenol, 4-Chloroaniline, Hexachlorobutadiene, Caprolactam, 4-chloro-3-methylphenol, 2-Methylnaphthalene, Naphthalene

  4,6-Dinitro-2-methylphenol, N-Nitrosodiphenylamine, 4-Bromophenyl-phenylether, Hexachlorobenzene, Atrazine, Pentachlorophenol, Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate, Fluoranthene

The corresponding compounds were qualified as J/UJ. They are as follows:

- J8K23

  For IS#4 (Phenanthrene-d10)

  4,6-Dinitro-2-methylphenol, N-Nitrosodiphenylamine, 4-Bromophenyl-phenylether, Hexachlorobenzene, Atrazine, Pentachlorophenol, Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate, Fluoranthene

- J8K56

  For IS #2 (Naphthalene-d8) & IS#3 (Acenaphthene-d10)

  Nitrobenzene, Isophorone, 2-Nitrophenol, 2,4-Dimethylphenol, Bis(2-chloroethoxy)methane, 2,4-Dichlorophenol, 4-Chloroaniline, Hexachlorobutadiene, Caprolactam, 4-chloro-3-methylphenol, 2-Methylnaphthalene, Naphthalene

Hexachlorocyclopentadiene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 2,3,4,6-Tetrachlorophenol, 1,1'-Biphenyl, 2-Chloronaphthalene, 2-Nitroaniline, Dimethylphthalate, Acenaphthylene, 3-Nitroaniline, Acenaphthylene, 3-Nitroaniline, Acenaphthene, 2,4-Dinitrophenol, 4-Nitrophenol, Dibenzofuran, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 1,2,4,5-Tetrachlorobenzene, Diethylphthalate, 4-Chlorophenyl-phenylether, Fluorene, 4-Nitroaniline

The PAH data were reported for different samples as seen in the tables below:

Compound	J8K23	J8K24	J8K25	J8K26	J8K27	J8K28	J8K44	J8K45	J8K46	J8K48
Naphthalene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full D2	SIM
2-Methylnaphthalene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full D2	SIM
Acenaphthylene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full D.	SIM
Acenaphthene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full D.	SIM
Fluorene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full D.	SIM
Pentachlorophenol	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full S.	SIM
Phenanthrene	Full D.	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full D2	SIM
Anthracene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full S.	SIM
Fluoranthene	Full D.	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full D.	SIM
Pyrene	Full D.	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full D.	SIM
Benzo(a)anthracene	Full D.	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full S.	SIM
Chrysene	Full D.	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full D.	SIM
Benzo(b)fluoranthene	Full D.	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full D.	SIM
Benzo(k)fluoranthene	Full D.	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full D.	SIM
Benzo(a)pyrene	Full D.	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full D.	SIM
Indeno(1,2,3-cd)pyrene	Full D.	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full D.	SIM
Dibenzo(a,h)anthracene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full S.	SIM
Benzo(g,h,i)perylene	Full D.	SIM	SIM	SIM	SIM	SIM	SIM	SIM	Full D.	SIM
Compound	**J8K49**	**J8K54**	**J8K55**	**J8K56**	**J8K57**	**J8K61**	**J8K62**	**J8K82**	**J8K83**	**J8K84**
Naphthalene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
2-Methylnaphthalene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Acenaphthylene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Acenaphthene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Fluorene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Pentachlorophenol	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Phenanthrene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Anthracene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Fluoranthene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Pyrene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Benzo(a)anthracene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Chrysene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Benzo(b)fluoranthene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Benzo(k)fluoranthene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Benzo(a)pyrene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Indeno(1,2,3-cd)pyrene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Dibenzo(a,h)anthracene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM

BREMERTON-012820

(Note: + indicates the results reported from "**SIM Dilution Runs**";
Full S. indicates the results reported from **"Full Scan Runs"**;
Full D. indicates the results reported from **"Full Scan Dilutions"**
Full D2 indicates the results reported from "**Full Scan Dilution #2**").
The rest of the SVOC data was obtained through full scan runs.

The data, as qualified, can be used for all purposes.

Data Qualifiers		
	U	The analyte was not detected at or above the reported result.
	J	The analyte was positively identified. The associated numerical result is an estimate.
	UJ	The analyte was not detected at or above the reported estimated result. The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.
	R	The data are unusable for all purposes.
	N	There is evidence the analyte is present in this sample.
	JN	There is evidence that the analyte is present. The associated numerical result is an estimate.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K23

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.02

Sample wt/vol: 3.800 (g/mL) G Lab File ID: B16326

Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 8.3 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.4	U
74-87-3	Chloromethane	1.4	U
75-01-4	Vinyl chloride	1.4	U
74-83-9	Bromomethane	1.4	U
75-00-3	Chloroethane	1.4	U
75-69-4	Trichlorofluoromethane	1.4	U
75-35-4	1,1-Dichloroethene	1.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.4	U
67-64-1	Acetone	26	
75-15-0	Carbon disulfide	1.4	U
79-20-9	Methyl acetate	1.4	U
75-09-2	Methylene chloride	1.4 ~~0.69~~	~~JB~~ U
156-60-5	trans-1,2-Dichloroethene	1.4	U
1634-04-4	Methyl tert-butyl ether	1.4	U
75-34-3	1,1-Dichloroethane	1.4	U
156-59-2	cis-1,2-Dichloroethene	1.4	U
78-93-3	2-Butanone	7.2	U
74-97-5	Bromochloromethane	1.4	U
67-66-3	Chloroform	1.4	U
71-55-6	1,1,1-Trichloroethane	1.4	U
110-82-7	Cyclohexane	1.4	U
56-23-5	Carbon tetrachloride	1.4	U
71-43-2	Benzene	1.4	U
107-06-2	1,2-Dichloroethane	1.4	U
123-91-1	1,4-Dioxane	140	U
79-01-6	Trichloroethene	1.4	U
108-87-2	Methylcyclohexane	1.4	U
78-87-5	1,2-Dichloropropane	1.4	U
75-27-4	Bromodichloromethane	1.4	U
10061-01-5	cis-1,3-Dichloropropene	1.4	U
108-10-1	4-Methyl-2-pentanone	7.2	U
108-88-3	Toluene	1.4	J Q
10061-02-6	trans-1,3-Dichloropropene	1.4	U
79-00-5	1,1,2-Trichloroethane	1.4	U

8/28/08

BREMERTON-012822

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K23

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.02

Sample wt/vol: 3.800 (g/mL) G Lab File ID: B16326

Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 8.3 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.4	U
591-78-6	2-Hexanone	7.2	UJ
124-48-1	Dibromochloromethane	1.4	U
106-93-4	1,2-Dibromoethane	1.4	U
108-90-7	Chlorobenzene	1.4	U
100-41-4	Ethylbenzene	1.4	U
95-47-6	o-Xylene	1.4	U
179601-23-1	m,p-Xylene	1.4	U
100-42-5	Styrene	1.4	U
75-25-2	Bromoform	1.4	U
98-82-8	Isopropylbenzene	1.4	U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U
541-73-1	1,3-Dichlorobenzene	1.4	U
106-46-7	1,4-Dichlorobenzene	1.4	U
95-50-1	1,2-Dichlorobenzene	1.4	U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	U
120-82-1	1,2,4-Trichlorobenzene	7.2	U
87-61-6	1,2,3-Trichlorobenzene	7.2	U
87-68-3	Hexachlorobutadiene	1.4	U
67-72-1	Hexachloroethane	2.9	U
91-20-3	Naphthalene	2.2	UJ
630-20-6	1,1,1,2-Tetrachloroethane	1.4	U
96-18-4	1,2,3-Trichloropropane	1.4	U

8/23/08

BREMERTON-012823

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K23

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.02

Sample wt/vol: 3.800 (g/mL) G Lab File ID: B16326

Level: (TRACE or LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 8.3 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.51	4.8	J
02		Unknown-02	11.16	7.2	J
03	000527-53-7	Benzene, 1,2,3,5-tetramethyl-	19.85	9.5	NJ
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

8/28/08 10033

BREMERTON-012824

Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)p Indeno(1,2,3-cd)pyrene & Benzo(g,h,i)perylene report from J8K23DL. (Full Scan) The rest of PAHs report from J8K23SIM
The rest report from J8K23 Full Scan

1D - FORM I SV-1 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: J8K23

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.02

Sample wt/vol: 100.5 (g/mL) G Lab File ID: G0845

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.3 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 4.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	22	U
108-95-2	Phenol	22	U
111-44-4	Bis(2-chloroethyl)ether	22	U
95-57-8	2-Chlorophenol	22	U
95-48-7	2-Methylphenol	22	U
108-60-1	2,2'-Oxybis(1-chloropropane)	22	U
98-86-2	Acetophenone	22	U
106-44-5	4-Methylphenol	22	U
621-64-7	N-Nitroso-di-n-propylamine	22	U
67-72-1	Hexachloroethane	22	U
98-95-3	Nitrobenzene	22	U
78-59-1	Isophorone	22	U
88-75-5	2-Nitrophenol	22	U
105-67-9	2,4-Dimethylphenol	22	U
111-91-1	Bis(2-chloroethoxy)methane	22	U
120-83-2	2,4-Dichlorophenol	22	U
91-20-3	~~Naphthalene~~	~~46~~	~~M~~
106-47-8	4-Chloroaniline	22	U
87-68-3	Hexachlorobutadiene	22	U
105-60-2	Caprolactam	22	U
59-50-7	4-Chloro-3-methylphenol	22	U
91-57-6	~~2-Methylnaphthalene~~	~~47~~	~~M~~
77-47-4	Hexachlorocyclopentadiene	54	UJ
88-06-2	2,4,6-Trichlorophenol	22	U
95-95-4	2,4,5-Trichlorophenol	22	U
92-52-4	1,1'-Biphenyl	22	U
91-58-7	2-Chloronaphthalene	22	U
88-74-4	2-Nitroaniline	43	U
131-11-3	Dimethylphthalate	22	U
606-20-2	2,6-Dinitrotoluene	22	U
208-96-8	~~Acenaphthylene~~	~~22~~	~~M~~
99-09-2	3-Nitroaniline	43	U
83-32-9	~~Acenaphthene~~	~~22~~	~~M~~
51-28-5	2,4-Dinitrophenol	110	UJ
100-02-7	4-Nitrophenol	43	U
132-64-9	Dibenzofuran	22	U
121-14-2	2,4-Dinitrotoluene	22	U

9/13/08

BREMERTON-012825

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K23

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.02

Sample wt/vol: 100.5 (g/mL) G Lab File ID: G0845

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.3 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 4.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	22	U
86-73-7	Fluorene	79	
7005-72-3	4-Chlorophenyl-phenylether	22	U
100-01-6	4-Nitroaniline	43	U
534-52-1	4,6-Dinitro-2-methylphenol	43	U
86-30-6	N-Nitrosodiphenylamine 1	22	U
95-94-3	1,2,4,5-Tetrachlorobenzene	22	U
101-55-3	4-Bromophenyl-phenylether	22	U
118-74-1	Hexachlorobenzene	22	U
1912-24-9	Atrazine	22	U
87-86-5	Pentachlorophenol	22	UJ
85-01-8	Phenanthrene	500	E
120-12-7	Anthracene	160	
86-74-8	Carbazole	26	
84-74-2	Di-n-butylphthalate	22	U
206-44-0	Fluoranthene	630	E
129-00-0	Pyrene	460	E
85-68-7	Butylbenzylphthalate	22	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	440	E
218-01-9	Chrysene	430	E
117-81-7	Bis(2-ethylhexyl)phthalate	180	J
117-84-0	Di-n-octylphthalate	22	U
205-99-2	Benzo(b)fluoranthene	480	E
207-08-9	Benzo(k)fluoranthene	370	E
50-32-8	Benzo(a)pyrene	530	E
193-39-5	Indeno(1,2,3-cd)pyrene	390	E
53-70-3	Dibenz(a,h)anthracene	130	J
191-24-2	Benzo(g,h,i)perylene	470	E
58-90-2	2,3,4,6-Tetrachlorophenol	22	U
92-87-5	Benzidine	22	U
95-50-1	1,2-Dichlorobenzene	22	U
106-46-7	1,4-Dichlorobenzene	22	U
541-73-1	1,3-Dichlorobenzene	22	U
62-75-9	N-Nitrosodimethylamine	22	U
95-63-6	1,2,4-Trimethylbenzene	22	U
108-67-8	1,3,5-Trimethylbenzene	22	U

1 Cannot be separated from Diphenylamine

Report from J8K23

9/3/08

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K23

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.02

Sample wt/vol: 100.5 (g/mL) G Lab File ID: G0845

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.3 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 4.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.15	91	JN
02		Unknown-02	3.08	150	J
03		Unknown-03	4.17	160	J
04		Unknown-04	4.40	110	J
05		Unknown-05	4.67	80	J
06		Unknown-06	4.91	110	J
07	001632-73-1	Bicyclo[2.2.1]heptan-2-ol, 1,	7.42	190	NJ
08		Unknown-07	8.11	67	JN
09		Unknown-08	8.60	110	J
10		Unknown-09	10.08	93	J
11	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.27	320	NJ
12	002471-83-2	1H-Indene, 1-ethylidene-	10.41	70	NJ
13	002131-41-1	Naphthalene, 1,4,5-trimethyl-	12.74	78	NJ
14	002131-42-2	Naphthalene, 1,4,6-trimethyl-	12.90	83	NJ
15		Unknown-10	13.06	99	JN
16	000082-05-3	7H-Benz[de]anthracen-7-one	17.40	77	NJ
17		Unknown-11	17.84	120	JN
18		Unknown-12	18.12	110	J
19		Unknown-13	18.19	92	J
20		Unknown-14	18.31	120	J
21	000192-97-2	Benzo[e]pyrene	18.68	160	NJ
22		Unknown-15	19.26	84	JN
23		Unknown-16	19.43	110	J
24		Unknown-17	19.51	74	J
25		Unknown-18	19.58	75	J
26		Unknown-19	19.80	100	J
27		Unknown-20	20.00	120	J
28		Unknown-21	20.35	71	J
29		Unknown-22	20.98	71	J
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

BREMERTON-012827

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K23DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.02DL

Sample wt/vol: 100.5 (g/mL) G Lab File ID: G0888

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.3 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 4.9 Dilution Factor: 5.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	110	U
108-95-2	Phenol	110	U
111-44-4	Bis(2-chloroethyl)ether	110	U
95-57-8	2-Chlorophenol	110	U
95-48-7	2-Methylphenol	110	U
108-60-1	2,2'-Oxybis(1-chloropropane)	110	U
98-86-2	Acetophenone	110	U
106-44-5	4-Methylphenol	110	U
621-64-7	N-Nitroso-di-n-propylamine	110	U
67-72-1	Hexachloroethane	110	U
98-95-3	Nitrobenzene	110	U
78-59-1	Isophorone	110	U
88-75-5	2-Nitrophenol	110	U
105-67-9	2,4-Dimethylphenol	110	U
111-91-1	Bis(2-chloroethoxy)methane	110	U
120-83-2	2,4-Dichlorophenol	110	U
91-20-3	Naphthalene	59	J
106-47-8	4-Chloroaniline	110	U
87-68-3	Hexachlorobutadiene	110	U
105-60-2	Caprolactam	110	U
59-50-7	4-Chloro-3-methylphenol	110	U
91-57-6	2-Methylnaphthalene	56	J
77-47-4	Hexachlorocyclopentadiene	270	U
88-06-2	2,4,6-Trichlorophenol	110	U
95-95-4	2,4,5-Trichlorophenol	110	U
92-52-4	1,1'-Biphenyl	110	U
91-58-7	2-Chloronaphthalene	110	U
88-74-4	2-Nitroaniline	220	U
131-11-3	Dimethylphthalate	110	U
606-20-2	2,6-Dinitrotoluene	110	U
208-96-8	Acenaphthylene	240	D
99-09-2	3-Nitroaniline	220	U
83-32-9	Acenaphthene	110	U
51-28-5	2,4-Dinitrophenol	540	U
100-02-7	4-Nitrophenol	220	U
[illegible]	[illegible]	[illegible]	[illegible]
121-14-2	2,4-Dinitrotoluene	110	U

9/3/08

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K23DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.02DL

Sample wt/vol: 100.5 (g/mL) G Lab File ID: G0888

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.3 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 4.9 Dilution Factor: 5.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	110	U
86-73-7	~~Fluorene~~	~~74~~	~~U~~
7005-72-3	4-Chlorophenyl-phenylether	110	U
100-01-6	4-Nitroaniline	220	U
534-52-1	4,6-Dinitro-2-methylphenol	220	U
86-30-6	N-Nitrosodiphenylamine 1	110	U
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U
101-55-3	4-Bromophenyl-phenylether	110	U
118-74-1	Hexachlorobenzene	110	U
1912-24-9	Atrazine	110	U
87-86-5	~~Pentachlorophenol~~	~~110~~	~~U~~
85-01-8	Phenanthrene	600	Ø J → Report
120-12-7	~~Anthracene~~	~~160~~	~~D~~
86-74-8	Carbazole	110	U
84-74-2	Di-n-butylphthalate	110	U
206-44-0	Fluoranthene	1100	Ø J → "
129-00-0	Pyrene	1400	Ø → "
85-68-7	Butylbenzylphthalate	110	U
91-94-1	3,3'-Dichlorobenzidine	110	U
56-55-3	Benzo(a)anthracene	480	Ø → "
218-01-9	Chrysene	520	Ø → "
117-81-7	Bis(2-ethylhexyl)phthalate	160	D
117-84-0	Di-n-octylphthalate	110	U
205-99-2	Benzo(b)fluoranthene	430	Ø → "
207-08-9	Benzo(k)fluoranthene	470	Ø → "
50-32-8	Benzo(a)pyrene	570	Ø → "
193-39-5	Indeno(1,2,3-cd)pyrene	390	Ø → "
53-70-3	~~Dibenzo(a,h)anthracene~~	~~110~~	~~U~~
191-24-2	Benzo(g,h,i)perylene	520	Ø → "
58-90-2	2,3,4,6-Tetrachlorophenol	110	U
92-87-5	Benzidine	110	U
95-50-1	1,2-Dichlorobenzene	110	U
106-46-7	1,4-Dichlorobenzene	110	U
541-73-1	1,3-Dichlorobenzene	110	U
62-75-9	N-Nitrosodimethylamine	110	U
95-63-6	1,2,4-Trimethylbenzene	110	U
108-67-8	1,3,5-Trimethylbenzene	110	U

1 Cannot be separated from Diphenylamine

9/3/08

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K23DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.02DL

Sample wt/vol: 100.5 (g/mL) G Lab File ID: G0888

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.3 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 4.9 Dilution Factor: 5.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	16.99	330	DJ
02		Unknown-02	18.19	430	DJ
03		Unknown-03	18.29	780	DJ
04		Unknown-04	18.45	350	DJ
05	000205-99-2	Benzo[e]acephenanthrylene	18.67	890	DNJ
06	000601-58-1	Stigmastane	19.24	580	DNJ
07		Unknown-05	19.41	760	DJ
08		Unknown-06	19.50	540	DJ
09		Unknown-07	19.61	330	DJ
10		Unknown-08	19.69	330	DJ
11		Unknown-09	19.79	720	DJ
12		Unknown-10	20.30	430	DJ
13		Unknown-11	20.60	490	DJ
14	006533-00-2	Norgestrel	20.70	420	DNJ
15		Unknown-12	21.02	390	DJ
16		Unknown-13	21.44	320	DJ
17		Unknown-14	21.54	320	DJ
18		Unknown-15	22.17	360	DJ
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/3/08

Report All PAHs Except Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene and Benzo(g,h,i)perylene

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K23

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.02

Sample wt/vol: 100.5 (g/mL) G Lab File ID: G0974

Extraction: (Type) SONC

% Moisture: 8.3 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2008

GPC Cleanup: (Y/N) Y pH: 4.9 Dilution Factor: 1000.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	670	J Q
91-57-6	2-Methylnaphthalene	1100	UJ
208-96-8	Acenaphthylene	1100	U
83-32-9	Acenaphthene	1100	U
86-73-7	Fluorene	1100	U
87-86-5	Pentachlorophenol	2200	U
85-01-8	~~Phenanthrene~~	~~1200~~	~~J~~ MW
120-12-7	Anthracene	1100	UJ
206-44-0	~~Fluoranthene~~	~~1100~~	~~U~~ MW
129-00-0	~~Pyrene~~	~~1100~~	~~U~~ MW
56-55-3	~~Benzo(a)anthracene~~	~~1100~~	~~U~~ MW
218-01-9	~~Chrysene~~	~~1100~~	~~U~~ MW
205-99-2	~~Benzo(b)fluoranthene~~	~~1100~~	~~U~~ MW
207-08-9	~~Benzo(k)fluoranthene~~	~~1100~~	~~U~~ MW
50-32-8	~~Benzo(a)pyrene~~	~~1100~~	~~U~~ MW
193-39-5	~~Indeno(1,2,3-cd)pyrene~~	~~1100~~	~~U~~ MW
53-70-3	Dibenzo(a,h)anthracene	1100	U
191-24-2	~~Benzo(g,h,i)perylene~~	~~1100~~	~~U~~ MW

1 Cannot be separated from Diphenylamine

9/3/08

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K24

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.03

Sample wt/vol: 4.200 (g/mL) G Lab File ID: B16327

Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 7.2 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.3	U
74-87-3	Chloromethane	1.3	U
75-01-4	Vinyl chloride	1.3	U
74-83-9	Bromomethane	1.3	U
75-00-3	Chloroethane	1.3	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	1.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	U
67-64-1	Acetone	11	
75-15-0	Carbon disulfide	1.3	U
79-20-9	Methyl acetate	1.3	U
75-09-2	Methylene chloride	0.58	JB
156-60-5	trans-1,2-Dichloroethene	1.3	U
1634-04-4	Methyl tert-butyl ether	1.3	U
75-34-3	1,1-Dichloroethane	1.3	U
156-59-2	cis-1,2-Dichloroethene	1.3	U
78-93-3	2-Butanone	6.4	U
74-97-5	Bromochloromethane	1.3	U
67-66-3	Chloroform	1.3	U
71-55-6	1,1,1-Trichloroethane	1.3	U
110-82-7	Cyclohexane	1.3	U
56-23-5	Carbon tetrachloride	1.3	U
71-43-2	Benzene	1.3	U
107-06-2	1,2-Dichloroethane	1.3	U
123-91-1	1,4-Dioxane	130	U
79-01-6	Trichloroethene	1.3	U
108-87-2	Methylcyclohexane	1.3	U
78-87-5	1,2-Dichloropropane	1.3	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	1.3	U
108-10-1	4-Methyl-2-pentanone	6.4	U
108-88-3	Toluene	0.38	J
10061-02-6	trans-1,3-Dichloropropene	1.3	U
79-00-5	1,1,2-Trichloroethane	1.3	U

8/28/08

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K24

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.03

Sample wt/vol: 4.200 (g/mL) G Lab File ID: B16327

Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 7.2 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.3	U
591-78-6	2-Hexanone	6.4	UJ
124-48-1	Dibromochloromethane	1.3	U
106-93-4	1,2-Dibromoethane	1.3	U
108-90-7	Chlorobenzene	1.3	U
100-41-4	Ethylbenzene	1.3	U
95-47-6	o-Xylene	1.3	U
179601-23-1	m,p-Xylene	1.3	U
100-42-5	Styrene	1.3	U
75-25-2	Bromoform	1.3	U
98-82-8	Isopropylbenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	U
541-73-1	1,3-Dichlorobenzene	1.3	U
106-46-7	1,4-Dichlorobenzene	1.3	U
95-50-1	1,2-Dichlorobenzene	1.3	U
96-12-8	1,2-Dibromo-3-chloropropane	1.3	U
120-82-1	1,2,4-Trichlorobenzene	6.4	U
87-61-6	1,2,3-Trichlorobenzene	6.4	U
87-68-3	Hexachlorobutadiene	1.3	U
67-72-1	Hexachloroethane	2.6	U
91-20-3	Naphthalene	1.3 ~~0.56~~	~~JB~~ U
630-20-6	1,1,1,2-Tetrachloroethane	1.3	U
96-18-4	1,2,3-Trichloropropane	1.3	U

8/28/08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K24

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.03

Sample wt/vol: 4.200 (g/mL) G Lab File ID: B16327

Level: (TRACE or LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 7.2 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.16	6.6	JN
02	000556-67-2	Cyclotetrasiloxane, octamethy	15.20	2.1	NJ
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	4.4	JN

[1] EPA-designated Registry Number.

BREMERTON-012834

Report All But PAHs

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K24

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.03

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G0826

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.2 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	21	U
108-95-2	Phenol	21	U
111-44-4	Bis(2-chloroethyl)ether	21	U
95-57-8	2-Chlorophenol	21	U
95-48-7	2-Methylphenol	21	U
108-60-1	2,2'-Oxybis(1-chloropropane)	21	U
98-86-2	Acetophenone	21	U
106-44-5	4-Methylphenol	21	U
621-64-7	N-Nitroso-di-n-propylamine	21	U
67-72-1	Hexachloroethane	21	U
98-95-3	Nitrobenzene	21	U
78-59-1	Isophorone	21	U
88-75-5	2-Nitrophenol	21	U
105-67-9	2,4-Dimethylphenol	21	U
111-91-1	Bis(2-chloroethoxy)methane	21	U
120-83-2	2,4-Dichlorophenol	21	U
91-20-3	Naphthalene	21	U
106-47-8	4-Chloroaniline	21	U
87-68-3	Hexachlorobutadiene	21	U
105-60-2	Caprolactam	21	U
59-50-7	4-Chloro-3-methylphenol	21	U
91-57-6	2-Methylnaphthalene	21	U
77-47-4	Hexachlorocyclopentadiene	54	UJ
88-06-2	2,4,6-Trichlorophenol	21	U
95-95-4	2,4,5-Trichlorophenol	21	U
92-52-4	1,1'-Biphenyl	21	U
91-58-7	2-Chloronaphthalene	21	U
88-74-4	2-Nitroaniline	43	U
131-11-3	Dimethylphthalate	21	U
606-20-2	2,6-Dinitrotoluene	21	U
208-96-8	Acenaphthylene	21	U
99-09-2	3-Nitroaniline	43	U
83-32-9	Acenaphthene	21	U
51-28-5	2,4-Dinitrophenol	110	UJ
100-02-7	4-Nitrophenol	43	U
132-64-9	Dibenzofuran	21	U
121-14-2	2,4-Dinitrotoluene	21	U

9/3/08

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K24

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.03

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G0826

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.2 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	21	U
86-73-7	Fluorene	21	U
7005-72-3	4-Chlorophenyl-phenylether	21	U
100-01-6	4-Nitroaniline	43	U
534-52-1	4,6-Dinitro-2-methylphenol	43	U
86-30-6	N-Nitrosodiphenylamine 1	21	U
95-94-3	1,2,4,5-Tetrachlorobenzene	21	U
101-55-3	4-Bromophenyl-phenylether	21	U
118-74-1	Hexachlorobenzene	21	U
1912-24-9	Atrazine	21	U
87-86-5	Pentachlorophenol	21	UJ
85-01-8	Phenanthrene	21	U
120-12-7	Anthracene	21	U
86-74-8	Carbazole	21	U
84-74-2	Di-n-butylphthalate	21	U
206-44-0	Fluoranthene	21	U
129-00-0	Pyrene	21	U
85-68-7	Butylbenzylphthalate	21	U
91-94-1	3,3'-Dichlorobenzidine	21	U
56-55-3	Benzo(a)anthracene	21	U
218-01-9	Chrysene	21	U
117-81-7	Bis(2-ethylhexyl)phthalate	82	
117-84-0	Di-n-octylphthalate	21	U
205-99-2	Benzo(b)fluoranthene	21	U
207-08-9	Benzo(k)fluoranthene	21	U
50-32-8	Benzo(a)pyrene	21	U
193-39-5	Indeno(1,2,3-cd)pyrene	21	U
53-70-3	Dibenzo(a,h)anthracene	21	U
191-24-2	Benzo(g,h,i)perylene	21	U
58-90-2	2,3,4,6-Tetrachlorophenol	21	U
92-87-5	Benzidine	21	U
95-50-1	1,2-Dichlorobenzene	21	U
106-46-7	1,4-Dichlorobenzene	21	U
541-73-1	1,3-Dichlorobenzene	21	U
62-75-9	N-Nitrosodimethylamine	21	U
95-63-6	1,2,4-Trimethylbenzene	21	U
108-67-8	1,3,5-Trimethylbenzene	21	U

1 Cannot be separated from Diphenylamine

9/3/08

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K24

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.03

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G0826

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.2 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.76	52	JN
02		Unknown-02	3.09	160	J
03		Unknown-03	3.64	45	J
04		Unknown-04	4.17	150	J
05		Unknown-05	4.41	83	J
06		Unknown-06	4.67	79	J
07		Unknown-07	4.91	86	J
08		Unknown-08	8.09	76	J
09	1000157-89-9	p-menth-1-en-8-ol	8.60	62	NJ
10		Unknown-09	10.08	84	JN
11	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.27	240	NJ
12		Unknown-10	10.57	71	JN
13		Unknown-11	12.62	63	JN
14	000123-95-5	Octadecanoic acid, butyl este	16.63	75	NJ
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/3/08

BREMERTON-012837

Report All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K24

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.03

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G0920

Extraction: (Type) SONC

% Moisture: 7.2 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/14/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	0.71	J Q
91-57-6	2-Methylnaphthalene	1.1	U
208-96-8	Acenaphthylene	1.1	U
83-32-9	Acenaphthene	1.1	U
86-73-7	Fluorene	1.1	U
87-86-5	Pentachlorophenol	2.1	U
85-01-8	Phenanthrene	~~0.65~~ 1.1	~~J~~ U
120-12-7	Anthracene	1.1	U
206-44-0	Fluoranthene	1.1	U
129-00-0	Pyrene	0.60	J Q
56-55-3	Benzo(a)anthracene	1.1	U
218-01-9	Chrysene	0.59	J Q
205-99-2	Benzo(b)fluoranthene	1.1	UJ
207-08-9	Benzo(k)fluoranthene	1.1	UJ
50-32-8	Benzo(a)pyrene	0.69	J Q
193-39-5	Indeno(1,2,3-cd)pyrene	1.4	
53-70-3	Dibenzo(a,h)anthracene	1.2	
191-24-2	Benzo(g,h,i)perylene	1.5	

[1] Cannot be separated from Diphenylamine

9/3/08 01321

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K25

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.04

Sample wt/vol: 3.700 (g/mL) G Lab File ID: B16314

Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 5.4 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.4	U
74-87-3	Chloromethane	1.4	U
75-01-4	Vinyl chloride	1.4	U
74-83-9	Bromomethane	1.4	U
75-00-3	Chloroethane	1.4	U
75-69-4	Trichlorofluoromethane	1.4	U
75-35-4	1,1-Dichloroethene	1.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.4	U
67-64-1	Acetone	7.1	U
75-15-0	Carbon disulfide	1.4	U
79-20-9	Methyl acetate	1.4	U
75-09-2	Methylene chloride	~~0.66~~ 1.4	~~JB~~ U
156-60-5	trans-1,2-Dichloroethene	1.4	U
1634-04-4	Methyl tert-butyl ether	1.4	U
75-34-3	1,1-Dichloroethane	1.4	U
156-59-2	cis-1,2-Dichloroethene	1.4	U
78-93-3	2-Butanone	7.1	U
74-97-5	Bromochloromethane	1.4	U
67-66-3	Chloroform	1.4	U
71-55-6	1,1,1-Trichloroethane	1.4	U
110-82-7	Cyclohexane	1.4	U
56-23-5	Carbon tetrachloride	1.4	U
71-43-2	Benzene	1.4	U
107-06-2	1,2-Dichloroethane	1.4	U
123-91-1	1,4-Dioxane	140	U
79-01-6	Trichloroethene	1.4	U
108-87-2	Methylcyclohexane	1.4	U
78-87-5	1,2-Dichloropropane	1.4	U
75-27-4	Bromodichloromethane	1.4	U
10061-01-5	cis-1,3-Dichloropropene	1.4	U
108-10-1	4-Methyl-2-pentanone	7.1	U
108-88-3	Toluene	0.78	J Q
10061-02-6	trans-1,3-Dichloropropene	1.4	U
79-00-5	1,1,2-Trichloroethane	1.4	U

SOM01.2 (6/2007)

3/28/08

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K25

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.04

Sample wt/vol: 3.700 (g/mL) G Lab File ID: B16314

Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 5.4 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.4	U
591-78-6	2-Hexanone	7.1	UJ
124-48-1	Dibromochloromethane	1.4	U
106-93-4	1,2-Dibromoethane	1.4	U
108-90-7	Chlorobenzene	1.4	U
100-41-4	Ethylbenzene	6.7	
95-47-6	o-Xylene	11	
179601-23-1	m,p-Xylene	43	
100-42-5	Styrene	1.4	U
75-25-2	Bromoform	1.4	U
98-82-8	Isopropylbenzene	1.7	
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U
541-73-1	1,3-Dichlorobenzene	1.4	U
106-46-7	1,4-Dichlorobenzene	1.4	U
95-50-1	1,2-Dichlorobenzene	1.4	U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	U
120-82-1	1,2,4-Trichlorobenzene	7.1	U
87-61-6	1,2,3-Trichlorobenzene	7.1	U
87-68-3	Hexachlorobutadiene	1.4	U
67-72-1	Hexachloroetnane	2.9	U
91-20-3	Naphthalene	3.8	U
630-20-6	1,1,1,2-Tetrachloroethane	1.4	U
96-18-4	1,2,3-Trichloropropane	1.4	U

5/28/08

BREMERTON-012840

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K25

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.04

Sample wt/vol: 3.700 (g/mL) G Lab File ID: B16314

Level: (TRACE or LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 5.4 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.50	5.9	JN
02		Unknown-02	3.93	3.3	J
03		Unknown-03	5.95	3.1	J
04		Unknown-04	11.17	8.7	J
05	000103-65-1	Benzene, propyl-	15.30	24	NJ
06	000611-14-3	Benzene, 1-ethyl-2-methyl-	15.48	180	NJ
07	000526-73-8	Benzene, 1,2,3-trimethyl-	15.67	65	NJ
08		Unknown-05	16.02	25	JN
09	000095-63-6	Benzene, 1,2,4-trimethyl-	16.34	130	NJ
10	000527-84-4	Benzene, 1-methyl-2-(1-methyl	16.77	3.7	NJ
11	000496-11-7	Indane	17.33	4.2	NJ
12	000135-01-3	Benzene, 1,2-diethyl-	17.37	3.5	NJ
13	001074-17-5	Benzene, 1-methyl-2-propyl-	17.45	5.7	NJ
14		Unknown-06	17.51	4.3	JN
15		Unknown-07	17.57	11	JN
16	001074-55-1	Benzene, 1-methyl-4-propyl-	17.91	2.5	NJ
17	000535-77-3	Benzene, 1-methyl-3-(1-methyl	18.11	8.8	NJ
18	000874-41-9	Benzene, 1-ethyl-2,4-dimethyl	18.24	7.9	NJ
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	6.9	JN

[1] EPA-designated Registry Number.

00972

BREMERTON-012841

Report All except PAHs

1D - FORM I SV-1 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K25

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.04

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0827

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5.4 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	21	U
108-95-2	Phenol	21	U
111-44-4	Bis(2-chloroethyl)ether	21	U
95-57-8	2-Chlorophenol	21	U
95-48-7	2-Methylphenol	21	U
108-60-1	2,2'-Oxybis(1-chloropropane)	21	U
98-86-2	Acetophenone	21	U
106-44-5	4-Methylphenol	21	U
621-64-7	N-Nitroso-di-n-propylamine	21	U
67-72-1	Hexachloroethane	21	U
98-95-3	Nitrobenzene	21	U
78-59-1	Isophorone	21	U
88-75-5	2-Nitrophenol	21	U
105-67-9	2,4-Dimethylphenol	21	U
111-91-1	Bis(2-chloroethoxy)methane	21	U
120-83-2	2,4-Dichlorophenol	21	U
91-20-3	Naphthalene	21	U
106-47-8	4-Chloroaniline	21	U
87-68-3	Hexachlorobutadiene	21	U
105-60-2	Caprolactam	21	U
59-50-7	4-Chloro-3-methylphenol	21	U
91-57-6	2-Methylnaphthalene	21	U
77-47-4	Hexachlorocyclopentadiene	53	UJ
88-06-2	2,4,6-Trichlorophenol	21	U
95-95-4	2,4,5-Trichlorophenol	21	U
92-52-4	1,1'-Biphenyl	21	U
91-58-7	2-Chloronaphthalene	21	U
88-74-4	2-Nitroaniline	42	U
131-11-3	Dimethylphthalate	21	U
606-20-2	2,6-Dinitrotoluene	21	U
208-96-8	Acenaphthylene	21	U
99-09-2	3-Nitroaniline	42	U
83-32-9	Acenaphthene	21	U
51-28-5	2,4-Dinitrophenol	110	UJ
100-02-7	4-Nitrophenol	42	U
132-64-9	Dibenzofuran	21	U
121-14-2	2,4-Dinitrotoluene	21	U

9/3/08

BREMERTON-012842

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K25

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.04

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0827

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5.4 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	21	U
86-73-7	Fluorene	21	U
7005-72-3	4-Chlorophenyl-phenylether	21	U
100-01-6	4-Nitroaniline	42	U
534-52-1	4,6-Dinitro-2-methylphenol	42	U
86-30-6	N-Nitrosodiphenylamine 1	21	U
95-94-3	1,2,4,5-Tetrachlorobenzene	21	U
101-55-3	4-Bromophenyl-phenylether	21	U
118-74-1	Hexachlorobenzene	21	U
1912-24-9	Atrazine	21	U
87-86-5	Pentachlorophenol	21	UJ
85-01-8	Phenanthrene	21	U
120-12-7	Anthracene	21	U
86-74-8	Carbazole	21	U
84-74-2	Di-n-butylphthalate	21	U
206-44-0	Fluoranthene	21	U
129-00-0	Pyrene	21	U
85-68-7	Butylbenzylphthalate	21	U
91-94-1	3,3'-Dichlorobenzidine	21	U
56-55-3	Benzo(a)anthracene	21	U
218-01-9	Chrysene	21	U
117-81-7	Bis(2-ethylhexyl)phthalate	100	
117-84-0	Di-n-octylphthalate	21	U
205-99-2	Benzo(b)fluoranthene	21	U
207-08-9	Benzo(k)fluoranthene	21	U
50-32-8	Benzo(a)pyrene	21	U
193-39-5	Indeno(1,2,3-cd)pyrene	21	U
53-70-3	Dibenzo(a,h)anthracene	21	U
191-24-2	Benzo(g,h,i)perylene	21	U
58-90-2	2,3,4,6-Tetrachlorophenol	21	U
92-87-5	Benzidine	21	U
95-50-1	1,2-Dichlorobenzene	21	U
106-46-7	1,4-Dichlorobenzene	21	U
541-73-1	1,3-Dichlorobenzene	21	U
62-75-9	N-Nitrosodimethylamine	21	U
95-63-6	1,2,4-Trimethylbenzene	21	U
108-67-8	1,3,5-Trimethylbenzene	21	U

1 Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012843

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K25

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.04

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0827

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5.4 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.28	63	JN
02		Unknown-02	2.58	48	J
03		Unknown-03	3.09	170	J
04		Unknown-04	4.17	84	J
05		Unknown-05	4.21	51	J
06		Unknown-06	4.40	62	J
07		Unknown-07	4.67	64	J
08		Unknown-08	4.91	80	J
09		Unknown-09	8.09	89	J
10	010482-56-1	3-Cyclohexene-1-methanol, .al	8.60	71	NJ
11		Unknown-10	10.09	100	JN
12	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.27	280	NJ
13		Unknown-11	10.58	81	JN
14	000123-95-5	Octadecanoic acid, butyl este	16.63	56	NJ
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

BREMERTON-012844

Report All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K25

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.04

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0921

Extraction: (Type) SONC

% Moisture: 5.4 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/14/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	0.61	J Q
91-57-6	2-Methylnaphthalene	1.1	U
208-96-8	Acenaphthylene	1.1	U
83-32-9	Acenaphthene	1.1	U
86-73-7	Fluorene	1.1	U
87-86-5	Pentachlorophenol	2.1	U
85-01-8	Phenanthrene	1.1	U
120-12-7	Anthracene	1.1	U
206-44-0	Fluoranthene	1.1	U
129-00-0	Pyrene	1.1	U
56-55-3	Benzo(a)anthracene	1.1	U
218-01-9	Chrysene	1.1	U
205-99-2	Benzo(b)fluoranthene	1.1	U J
207-08-9	Benzo(k)fluoranthene	1.1	U J
50-32-8	Benzo(a)pyrene	0.53	J Q
193-39-5	Indeno(1,2,3-cd)pyrene	1.3	
53-70-3	Dibenzo(a,h)anthracene	1.1	
191-24-2	Benzo(g,h,i)perylene	1.4	

1 Cannot be separated from Diphenylamine

9/3/08 01990

BREMERTON-012845

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K26

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.05

Sample wt/vol: 4.200 (g/mL) G Lab File ID: B16315

Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 5.2 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.3	U
74-87-3	Chloromethane	1.3	U
75-01-4	Vinyl chloride	1.3	U
74-83-9	Bromomethane	1.3	U
75-00-3	Chloroethane	1.3	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	1.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	U
67-64-1	Acetone	6.3	U
75-15-0	Carbon disulfide	1.3	U
79-20-9	Methyl acetate	1.3	U
75-09-2	Methylene chloride	~~1.3~~ 0.60	~~U~~ U
156-60-5	trans-1,2-Dichloroethene	1.3	U
1634-04-4	Methyl tert-butyl ether	1.3	U
75-34-3	1,1-Dichloroethane	1.3	U
156-59-2	cis-1,2-Dichloroethene	1.3	U
78-93-3	2-Butanone	6.3	U
74-97-5	Bromochloromethane	1.3	U
67-66-3	Chloroform	1.3	U
71-55-6	1,1,1-Trichloroethane	1.3	U
110-82-7	Cyclohexane	1.3	U
56-23-5	Carbon tetrachloride	1.3	U
71-43-2	Benzene	1.3	U
107-06-2	1,2-Dichloroethane	1.3	U
123-91-1	1,4-Dioxane	130	U
79-01-6	Trichloroethene	1.3	U
108-87-2	Methylcyclohexane	1.3	U
78-87-5	1,2-Dichloropropane	1.3	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	1.3	U
108-10-1	4-Methyl-2-pentanone	6.3	U
108-88-3	Toluene	0.46	J Q
10061-02-6	trans-1,3-Dichloropropene	1.3	U
79-00-5	1,1,2-Trichloroethane	1.3	U

5/28/08

BREMERTON-012846

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K26

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.05

Sample wt/vol: 4.200 (g/mL) G Lab File ID: B16315

Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 5.2 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.3	U
591-78-6	2-Hexanone	6.3	UJ
124-48-1	Dibromochloromethane	1.3	U
106-93-4	1,2-Dibromoethane	1.3	U
108-90-7	Chlorobenzene	1.3	U
100-41-4	Ethylbenzene	1.3	U
95-47-6	o-Xylene	1.3	U
179601-23-1	m,p-Xylene	1.3	U
100-42-5	Styrene	1.3	U
75-25-2	Bromoform	1.3	U
98-82-8	Isopropylbenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	U
541-73-1	1,3-Dichlorobenzene	1.3	U
106-46-7	1,4-Dichlorobenzene	1.3	U
95-50-1	1,2-Dichlorobenzene	1.3	U
96-12-8	1,2-Dibromo-3-chloropropane	1.3	U
120-82-1	1,2,4-Trichlorobenzene	6.3	U
87-61-6	1,2,3-Trichlorobenzene	6.3	U
87-68-3	Hexachlorobutadiene	1.3	U
67-72-1	Hexachloroethane	2.5	U
91-20-3	Naphthalene	2.7	U
630-20-6	1,1,1,2-Tetrachloroethane	1.3	U
96-18-4	1,2,3-Trichloropropane	1.3	U

8/28/08

BREMERTON-012847

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K26

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.05

Sample wt/vol: 4.200 (g/mL) G Lab File ID: B16315

Level: (TRACE or LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 5.2 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.79	3.0	JN
02		Unknown-02	4.58	4.5	J
03		Unknown-03	9.65	2.5	J
04	000541-05-9	Cyclotrisiloxane, hexamethyl-	11.11	7.1	NJ
05		Unknown-04	11.17	7.1	JN
06					
07					
08					
09					
10					
11					
12					
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19					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

5/28/08

BREMERTON-012848

Report All but PAHs

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K26

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.05

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0828

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5.2 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	21	U
108-95-2	Phenol	21	U
111-44-4	Bis(2-chloroethyl)ether	21	U
95-57-8	2-Chlorophenol	21	U
95-48-7	2-Methylphenol	21	U
108-60-1	2,2'-Oxybis(1-chloropropane)	21	U
98-86-2	Acetophenone	21	U
106-44-5	4-Methylphenol	21	U
621-64-7	N-Nitroso-di-n-propylamine	21	U
67-72-1	Hexachloroethane	21	U
98-95-3	Nitrobenzene	21	U
78-59-1	Isophorone	21	U
88-75-5	2-Nitrophenol	21	U
105-67-9	2,4-Dimethylphenol	21	U
111-91-1	Bis(2-chloroethoxy)methane	21	U
120-83-2	2,4-Dichlorophenol	21	U
91-20-3	Naphthalene	21	U
106-47-8	4-Chloroaniline	21	U
87-68-3	Hexachlorobutadiene	21	U
105-60-2	Caprolactam	21	U
59-50-7	4-Chloro-3-methylphenol	21	U
91-57-6	2-Methylnaphthalene	21	U
77-47-4	Hexachlorocyclopentadiene	53	UJ
88-06-2	2,4,6-Trichlorophenol	21	U
95-95-4	2,4,5-Trichlorophenol	21	U
92-52-4	1,1'-Biphenyl	21	U
91-58-7	2-Chloronaphthalene	21	U
88-74-4	2-Nitroaniline	42	U
131-11-3	Dimethylphthalate	21	U
606-20-2	2,6-Dinitrotoluene	21	U
208-96-8	Acenaphthylene	21	U
99-09-2	3-Nitroaniline	42	U
83-32-9	Acenaphthene	21	U
51-28-5	2,4-Dinitrophenol	110	UJ
100-02-7	4-Nitrophenol	42	U
132-64-9	Dibenzofuran	21	U
121-14-2	2,4-Dinitrotoluene	21	U

9/3/08

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K26

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.05

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0828

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5.2 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	21	U
86-73-7	Fluorene	21	U
7005-72-3	4-Chlorophenyl-phenylether	21	U
100-01-6	4-Nitroaniline	42	U
534-52-1	4,6-Dinitro-2-methylphenol	42	U
86-30-6	N-Nitrosodiphenylamine 1	21	U
95-94-3	1,2,4,5-Tetrachlorobenzene	21	U
101-55-3	4-Bromophenyl-phenylether	21	U
118-74-1	Hexachlorobenzene	21	U
1912-24-9	Atrazine	21	U
87-86-5	Pentachlorophenol	21	U
85-01-8	Phenanthrene	21	U
120-12-7	Anthracene	21	U
86-74-8	Carbazole	21	U
84-74-2	Di-n-butylphthalate	21	U
206-44-0	Fluoranthene	21	U
129-00-0	Pyrene	21	U
85-68-7	Butylbenzylphthalate	21	U
91-94-1	3,3'-Dichlorobenzidine	21	U
56-55-3	Benzo(a)anthracene	21	U
218-01-9	Chrysene	21	U
117-81-7	Bis(2-ethylhexyl)phthalate	75	
117-84-0	Di-n-octylphthalate	21	U
205-99-2	Benzo(b)fluoranthene	21	U
207-08-9	Benzo(k)fluoranthene	21	U
50-32-8	Benzo(a)pyrene	21	U
193-39-5	Indeno(1,2,3-cd)pyrene	21	U
53-70-3	Dibenzo(a,h)anthracene	21	U
191-24-2	Benzo(g,h,i)perylene	21	U
58-90-2	2,3,4,6-Tetrachlorophenol	21	U
92-87-5	Benzidine	21	U
95-50-1	1,2-Dichlorobenzene	21	U
106-46-7	1,4-Dichlorobenzene	21	U
541-73-1	1,3-Dichlorobenzene	21	U
62-75-9	N-Nitrosodimethylamine	21	U
95-63-6	1,2,4-Trimethylbenzene	21	U
108-67-8	1,3,5-Trimethylbenzene	21	U

1 Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012850

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: J8K26

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.05

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0828

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5.2 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.28	67	JN
02		Unknown-02	2.46	46	J
03		Unknown-03	2.58	53	J
04		Unknown-04	3.09	160	J
05		Unknown-05	3.64	47	J
06		Unknown-06	4.17	90	J
07		Unknown-07	4.21	54	J
08		Unknown-08	4.40	61	J
09		Unknown-09	4.67	68	J
10		Unknown-10	4.91	83	J
11		Unknown-11	8.09	47	J
12		Unknown-12	10.09	92	J
13	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.26	200	NJ
14		Unknown-13	10.57	52	JN
15					
16					
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28					
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30					
	E9667962	Total Alkanes	N/A		

2 EPA-designated Registry Number.

9/2/08

BREMERTON-012851

Report All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K26

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.05

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0922

Extraction: (Type) SONC

% Moisture: 5.2 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/14/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	0.58	J Q
91-57-6	2-Methylnaphthalene	1.1	U
208-96-8	Acenaphthylene	1.1	U
83-32-9	Acenaphthene	1.1	U
86-73-7	Fluorene	1.1	U
87-86-5	Pentachlorophenol	2.1	U
85-01-8	Phenanthrene	1.1	U
120-12-7	Anthracene	1.1	U
206-44-0	Fluoranthene	1.1	U
129-00-0	Pyrene	1.1	U
56-55-3	Benzo(a)anthracene	1.1	U
218-01-9	Chrysene	1.1	U
205-99-2	Benzo(b)fluoranthene	1.1	UJ
207-08-9	Benzo(k)fluoranthene	1.1	UJ
50-32-8	Benzo(a)pyrene	0.74	J Q
193-39-5	Indeno(1,2,3-cd)pyrene	1.8	
53-70-3	Dibenzo(a,h)anthracene	1.6	
191-24-2	Benzo(g,h,i)perylene	1.9	

[1] Cannot be separated from Diphenylamine

9/2/08

01935

BREMERTON-012852

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K27

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.06

Sample wt/vol: 4.700 (g/mL) G Lab File ID: B16316

Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 15 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.3	U
74-87-3	Chloromethane	1.3	U
75-01-4	Vinyl chloride	1.3	U
74-83-9	Bromomethane	1.3	U
75-00-3	Chloroethane	1.3	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	1.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	U
67-64-1	Acetone	21	
75-15-0	Carbon disulfide	1.3	U
79-20-9	Methyl acetate	1.3	U
75-09-2	Methylene chloride	~~30.72~~ 1.3	~~JB~~ U
156-60-5	trans-1,2-Dichloroethene	1.3	U
1634-04-4	Methyl tert-butyl ether	1.3	U
75-34-3	1,1-Dichloroethane	1.3	U
156-59-2	cis-1,2-Dichloroethene	1.3	U
78-93-3	2-Butanone	6.3	U
74-97-5	Bromochloromethane	1.3	U
67-66-3	Chloroform	1.3	U
71-55-6	1,1,1-Trichloroethane	1.3	U
110-82-7	Cyclohexane	1.3	U
56-23-5	Carbon tetrachloride	1.3	U
71-43-2	Benzene	1.3	U
107-06-2	1,2-Dichloroethane	1.3	U
123-91-1	1,4-Dioxane	130	U
79-01-6	Trichloroethene	1.3	U
108-87-2	Methylcyclohexane	1.3	U
78-87-5	1,2-Dichloropropane	1.3	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	1.3	U
108-10-1	4-Methyl-2-pentanone	6.3	U
108-88-3	Toluene	1.2	J Q
10061-02-6	trans-1,3-Dichloropropene	1.3	U
79-00-5	1,1,2-Trichloroethane	1.3	U

5/28/08

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K27

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.06

Sample wt/vol: 4.700 (g/mL) G Lab File ID: B16316

Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 15 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.3	U
591-78-6	2-Hexanone	6.3	UJ
124-48-1	Dibromochloromethane	1.3	U
106-93-4	1,2-Dibromoethane	1.3	U
108-90-7	Chlorobenzene	1.3	U
100-41-4	Ethylbenzene	1.3	U
95-47-6	o-Xylene	1.3	U
179601-23-1	m,p-Xylene	1.3	U
100-42-5	Styrene	1.3	U
75-25-2	Bromoform	1.3	U
98-82-8	Isopropylbenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	U
541-73-1	1,3-Dichlorobenzene	1.3	U
106-46-7	1,4-Dichlorobenzene	1.3	U
95-50-1	1,2-Dichlorobenzene	1.3	U
96-12-8	1,2-Dibromo-3-chloropropane	1.3	U
120-82-1	1,2,4-Trichlorobenzene	6.3	U
87-61-6	1,2,3-Trichlorobenzene	6.3	U
87-68-3	Hexachlorobutadiene	1.3	U
67-72-1	Hexachloroethane	2.5	U
91-20-3	Naphthalene	2.3	U
630-20-6	1,1,1,2-Tetrachloroethane	1.3	U
96-18-4	1,2,3-Trichloropropane	1.3	U

5/23/08

BREMERTON-012854

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K27

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.06

Sample wt/vol: 4.700 (g/mL) G Lab File ID: B16316

Level: (TRACE or LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 15 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.45	3.5	JN
02		Unknown-02	3.91	2.4	J
03		Unknown-03	6.18	4.8	J
04		Unknown-04	11.17	8.0	J
05					
06					
07					
08					
09					
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26					
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28					
29					
30					
	E966796[1]	Total Alkanes	N/A	5.0	JN

[1] EPA-designated Registry Number.

SOMC1.2 (6/2007)

8/28/08

Repeat All except PAHs

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K27

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.06

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0829

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	23	U
108-95-2	Phenol	23	U
111-44-4	Bis(2-chloroethyl)ether	23	U
95-57-8	2-Chlorophenol	23	U
95-48-7	2-Methylphenol	23	U
108-60-1	2,2'-Oxybis(1-chloropropane)	23	U
98-86-2	Acetophenone	23	U
106-44-5	4-Methylphenol	23	U
621-64-7	N-Nitroso-di-n-propylamine	23	U
67-72-1	Hexachloroethane	23	U
98-95-3	Nitrobenzene	23	U
78-59-1	Isophorone	23	U
88-75-5	2-Nitrophenol	23	U
105-67-9	2,4-Dimethylphenol	23	U
111-91-1	Bis(2-chloroethoxy)methane	23	U
120-83-2	2,4-Dichlorophenol	23	U
91-20-3	Naphthalene	23	U
106-47-8	4-Chloroaniline	23	U
87-68-3	Hexachlorobutadiene	23	U
105-60-2	Caprolactam	23	U
59-50-7	4-Chloro-3-methylphenol	23	U
91-57-6	2-Methylnaphthalene	23	U
77-47-4	Hexachlorocyclopentadiene	59	UJ
88-06-2	2,4,6-Trichlorophenol	23	U
95-95-4	2,4,5-Trichlorophenol	23	U
92-52-4	1,1'-Biphenyl	23	U
91-58-7	2-Chloronaphthalene	23	U
88-74-4	2-Nitroaniline	47	U
131-11-3	Dimethylphthalate	23	U
606-20-2	2,6-Dinitrotoluene	23	U
208-96-8	Acenaphthylene	23	U
99-09-2	3-Nitroaniline	47	U
83-32-9	Acenaphthene	23	U
51-28-5	2,4-Dinitrophenol	120	UJ
100-02-7	4-Nitrophenol	47	U
132-64-9	Dibenzofuran	23	U
121-14-2	2,4-Dinitrotoluene	23	U

9/3/08

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K27

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.06

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0829

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	23	U
86-73-7	Fluorene	23	U
7005-72-3	4-Chlorophenyl-phenylether	23	U
100-01-6	4-Nitroaniline	47	U
534-52-1	4,6-Dinitro-2-methylphenol	47	U
86-30-6	N-Nitrosodiphenylamine 1	23	U
95-94-3	1,2,4,5-Tetrachlorobenzene	23	U
101-55-3	4-Bromophenyl-phenylether	23	U
118-74-1	Hexachlorobenzene	23	U
1912-24-9	Atrazine	23	U
87-86-5	Pentachlorophenol	23	UJ
85-01-8	Phenanthrene	23	U
120-12-7	Anthracene	23	U
86-74-8	Carbazole	23	U
84-74-2	Di-n-butylphthalate	23	U
206-44-0	Fluoranthene	23	U
129-00-0	Pyrene	23	U
85-68-7	Butylbenzylphthalate	23	U
91-94-1	3,3'-Dichlorobenzidine	23	U
56-55-3	Benzo(a)anthracene	23	U
218-01-9	Chrysene	23	U
117-81-7	Bis(2-ethylhexyl)phthalate	93	
117-84-0	Di-n-octylphthalate	23	U
205-99-2	Benzo(b)fluoranthene	23	U
207-08-9	Benzo(k)fluoranthene	23	U
50-32-8	Benzo(a)pyrene	23	U
193-39-5	Indeno(1,2,3-cd)pyrene	23	U
53-70-3	Dibenzo(a,h)anthracene	23	U
191-24-2	Benzo(g,h,i)perylene	23	U
58-90-2	2,3,4,6-Tetrachlorophenol	23	U
92-87-5	Benzidine	23	U
95-50-1	1,2-Dichlorobenzene	23	U
106-46-7	1,4-Dichlorobenzene	23	U
541-73-1	1,3-Dichlorobenzene	23	U
62-75-9	N-Nitrosodimethylamine	23	U
95-63-6	1,2,4-Trimethylbenzene	23	U
108-67-8	1,3,5-Trimethylbenzene	23	U

1 Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012857

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K27

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.06

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0829

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.27	56	JN
02		Unknown-02	2.58	49	J
03		Unknown-03	3.09	180	J
04		Unknown-04	3.64	51	J
05		Unknown-05	4.17	160	J
06		Unknown-06	4.40	88	J
07		Unknown-07	4.67	84	J
08		Unknown-08	4.91	100	J
09		Unknown-09	8.09	49	J
10		Unknown-10	10.04	68	J
11	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.26	210	NJ
12		Unknown-11	10.57	64	JN
13		Unknown-12	11.17	61	JN
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	130	JN

[2] EPA-designated Registry Number.

9/3/08

Report All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K27

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.06

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0923

Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/14/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	0.72	J Q
91-57-6	2-Methylnaphthalene	1.2	U
208-96-8	Acenaphthylene	1.2	U
83-32-9	Acenaphthene	1.2	U
86-73-7	Fluorene	1.2	U
87-86-5	Pentachlorophenol	2.3	U
85-01-8	Phenanthrene	1.2	U
120-12-7	Anthracene	1.2	U
206-44-0	Fluoranthene	1.2	U
129-00-0	Pyrene	1.2	U
56-55-3	Benzo(a)anthracene	1.2	U
218-01-9	Chrysene	1.2	U
205-99-2	Benzo(b)fluoranthene	1.2	UJ
207-08-9	Benzo(k)fluoranthene	1.2	UJ
50-32-8	Benzo(a)pyrene	1.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	J Q
53-70-3	Dibenzo(a,h)anthracene	0.88	J Q
191-24-2	Benzo(g,h,i)perylene	1.1	J Q

[1] Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012859

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K28

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.07

Sample wt/vol: 4.900 (g/mL) G Lab File ID: B16317

Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 7.2 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.1	U
74-87-3	Chloromethane	1.1	U
75-01-4	Vinyl chloride	1.1	U
74-83-9	Bromomethane	1.1	U
75-00-3	Chloroethane	1.1	U
75-69-4	Trichlorofluoromethane	1.1	U
75-35-4	1,1-Dichloroethene	1.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U
67-64-1	Acetone	9.5	
75-15-0	Carbon disulfide	1.1	U
79-20-9	Methyl acetate	1.1	U
75-09-2	Methylene chloride	1.1 ~~0.56~~	~~JB~~ U
156-60-5	trans-1,2-Dichloroethene	1.1	U
1634-04-4	Methyl tert-butyl ether	1.1	U
75-34-3	1,1-Dichloroethane	1.1	U
156-59-2	cis-1,2-Dichloroethene	1.1	U
78-93-3	2-Butanone	5.5	U
74-97-5	Bromochloromethane	1.1	U
67-66-3	Chloroform	1.1	U
71-55-6	1,1,1-Trichloroethane	1.1	U
110-82-7	Cyclohexane	1.1	U
56-23-5	Carbon tetrachloride	1.1	U
71-43-2	Benzene	1.1	U
107-06-2	1,2-Dichloroethane	1.1	U
123-91-1	1,4-Dioxane	110	U
79-01-6	Trichloroethene	1.1	U
108-87-2	Methylcyclohexane	1.1	U
78-87-5	1,2-Dichloropropane	1.1	U
75-27-4	Bromodichloromethane	1.1	U
10061-01-5	cis-1,3-Dichloropropene	1.1	U
108-10-1	4-Methyl-2-pentanone	5.5	U
108-88-3	Toluene	0.48	J Q
10061-02-6	trans-1,3-Dichloropropene	1.1	U
79-00-5	1,1,2-Trichloroethane	1.1	U

8/28/08

BREMERTON-012860

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K28

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.07

Sample wt/vol: 4.900 (g/mL) G Lab File ID: B16317

Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 7.2 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.1	U
591-78-6	2-Hexanone	5.5	UJ
124-48-1	Dibromochloromethane	1.1	U
106-93-4	1,2-Dibromoethane	1.1	U
108-90-7	Chlorobenzene	1.1	U
100-41-4	Ethylbenzene	1.1	U
95-47-6	o-Xylene	1.1	U
179601-23-1	m,p-Xylene	1.1	U
100-42-5	Styrene	1.1	U
75-25-2	Bromoform	1.1	U
98-82-8	Isopropylbenzene	1.1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
541-73-1	1,3-Dichlorobenzene	1.1	U
106-46-7	1,4-Dichlorobenzene	1.1	U
95-50-1	1,2-Dichlorobenzene	1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	1.1	U
120-82-1	1,2,4-Trichlorobenzene	5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	U
87-68-3	Hexachlorobutadiene	1.1	U
67-72-1	Hexachloroethane	2.2	U
91-20-3	Naphthalene	1.7	U
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U

8/25/08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K28

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.07

Sample wt/vol: 4.900 (g/mL) G Lab File ID: B16317

Level: (TRACE or LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 7.2 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	9.76	3.3	JN
02	000541-05-9	Cyclotrisiloxane, hexamethyl-	11.11	15	NJ
03		Unknown-02	11.17	4.5	JN
04		Unknown-03	19.37	3.2	JN
05					
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30					
	E966796[1]	Total Alkanes	N/A	7.5	JN

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/23/08

Report All except PAHs

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K28

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.07

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0830

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.2 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	22	U
108-95-2	Phenol	22	U
111-44-4	Bis(2-chloroethyl)ether	22	U
95-57-8	2-Chlorophenol	22	U
95-48-7	2-Methylphenol	22	U
108-60-1	2,2'-Oxybis(1-chloropropane)	22	U
98-86-2	Acetophenone	22	U
106-44-5	4-Methylphenol	22	U
621-64-7	N-Nitroso-di-n-propylamine	22	U
67-72-1	Hexachloroethane	22	U
98-95-3	Nitrobenzene	22	U
78-59-1	Isophorone	22	U
88-75-5	2-Nitrophenol	22	U
105-67-9	2,4-Dimethylphenol	22	U
111-91-1	Bis(2-chloroethoxy)methane	22	U
120-83-2	2,4-Dichlorophenol	22	U
91-20-3	Naphthalene	22	U
106-47-8	4-Chloroaniline	22	U
87-68-3	Hexachlorobutadiene	22	U
105-60-2	Caprolactam	15	J Q
59-50-7	4-Chloro-3-methylphenol	22	U
91-57-6	2-Methylnaphthalene	22	U
77-47-4	Hexachlorocyclopentadiene	54	UJ
88-06-2	2,4,6-Trichlorophenol	22	U
95-95-4	2,4,5-Trichlorophenol	22	U
92-52-4	1,1'-Biphenyl	22	U
91-58-7	2-Chloronaphthalene	22	U
88-74-4	2-Nitroaniline	43	U
131-11-3	Dimethylphthalate	22	U
606-20-2	2,6-Dinitrotoluene	22	U
208-96-8	Acenaphthylene	22	U
99-09-2	3-Nitroaniline	43	U
83-32-9	Acenaphthene	22	U
51-28-5	2,4-Dinitrophenol	110	UJ
100-02-7	4-Nitrophenol	43	U
132-64-9	Dibenzofuran	22	U
121-14-2	2,4-Dinitrotoluene	22	U

 9/3/08

BREMERTON-012863

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K28

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.07

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0830

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.2 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	22	U
86-73-7	Fluorene	22	U
7005-72-3	4-Chlorophenyl-phenylether	22	U
100-01-6	4-Nitroaniline	43	U
534-52-1	4,6-Dinitro-2-methylphenol	43	U
86-30-6	N-Nitrosodiphenylamine 1	22	U
95-94-3	1,2,4,5-Tetrachlorobenzene	22	U
101-55-3	4-Bromophenyl-phenylether	22	U
118-74-1	Hexachlorobenzene	22	U
1912-24-9	Atrazine	22	U
87-86-5	Pentachlorophenol	22	UJ
85-01-8	Phenanthrene	22	U
120-12-7	Anthracene	22	U
86-74-8	Carbazole	22	U
84-74-2	Di-n-butylphthalate	14	JQ
206-44-0	Fluoranthene	22	U
129-00-0	Pyrene	22	U
85-68-7	Butylbenzylphthalate	22	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	22	U
218-01-9	Chrysene	22	U
117-81-7	Bis(2-ethylhexyl)phthalate	83	
117-84-0	Di-n-octylphthalate	22	U
205-99-2	Benzo(b)fluoranthene	22	U
207-08-9	Benzo(k)fluoranthene	22	U
50-32-8	Benzo(a)pyrene	22	U
193-39-5	Indeno(1,2,3-cd)pyrene	22	U
53-70-3	Dibenzo(a,h)anthracene	22	U
191-24-2	Benzo(g,h,i)perylene	22	U
58-90-2	2,3,4,6-Tetrachlorophenol	22	U
92-87-5	Benzidine	22	U
95-50-1	1,2-Dichlorobenzene	22	U
106-46-7	1,4-Dichlorobenzene	22	U
541-73-1	1,3-Dichlorobenzene	22	U
62-75-9	N-Nitrosodimethylamine	22	U
95-63-6	1,2,4-Trimethylbenzene	22	U
108-67-8	1,3,5-Trimethylbenzene	22	U

1 Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012864

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: J8K28

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.07

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0830

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.2 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.28	60	JN
02		Unknown-02	2.31	68	J
03		Unknown-03	2.46	49	J
04		Unknown-04	3.09	180	J
05		Unknown-05	4.17	120	J
06		Unknown-06	4.41	66	J
07		Unknown-07	4.67	61	J
08		Unknown-08	4.91	120	J
09	005469-16-9	2(3H)-Furanone, dihydro-4-hyd	8.10	56	NJ
10		Unknown-09	8.60	72	JN
11		Unknown-10	10.07	59	JN
12	002451-01-6	Teroin Hydrate	10.27	240	NJ
13		Unknown-11	10.58	70	JN
14		Unknown-12	11.18	48	JN
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667962	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/3/08

BREMERTON-012865

Report All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K28

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.07

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0924

Extraction: (Type) SONC

% Moisture: 7.2 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/14/2008

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.3	
91-57-6	2-Methylnaphthalene	~~0.60~~ 1.1	~~J~~ MA U
208-96-8	Acenaphthylene	1.1	U
83-32-9	Acenaphthene	1.1	U
86-73-7	Fluorene	1.1	U
87-86-5	Pentachlorophenol	2.2	U
85-01-8	Phenanthrene	0.82	J Q
120-12-7	Anthracene	1.1	U
206-44-0	Fluoranthene	0.68	J Q
129-00-0	Pyrene	0.81	J Q
56-55-3	Benzo(a)anthracene	1.1	U
218-01-9	Chrysene	0.67	J Q
205-99-2	Benzo(b)fluoranthene	1.1	U J
207-08-9	Benzo(k)fluoranthene	1.1	U J
50-32-8	Benzo(a)pyrene	0.56	J Q
193-39-5	Indeno(1,2,3-cd)pyrene	1.1	
53-70-3	Dibenzo(a,h)anthracene	0.92	J Q
191-24-2	Benzo(g,h,i)perylene	1.2	

[1] Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012866

Repeat

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K44

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.06

Sample wt/vol: 5.600 (g/mL) G Lab File ID: B16308

Level: (TRACE/LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 11 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.0	U
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U
67-64-1	Acetone	28	
75-15-0	Carbon disulfide	1.0	U
79-20-9	Methyl acetate	1.0	U
75-09-2	Methylene chloride	1.0 ~~0.66~~	~~JB~~ U
156-60-5	trans-1,2-Dichloroethene	1.0	U
1634-04-4	Methyl tert-butyl ether	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
110-82-7	Cyclohexane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
123-91-1	1,4-Dioxane	100	U
79-01-6	Trichloroethene	1.0	U
108-87-2	Methylcyclohexane	3.9	
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	4.5	
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U

5/28/08

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K44

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.06

Sample wt/vol: 5.600 (g/mL) G Lab File ID: B16308

Level: (TRACE/LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 11 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.0	U
591-78-6	2-Hexanone	5.0	UJ
124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	86	E
95-47-6	o-Xylene	94	E
179601-23-1	m,p-Xylene	72	E
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	7.8	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U
87-68-3	Hexachlorobutadiene	1.0	U
67-72-1	Hexachloroethane	2.0	U
91-20-3	Naphthalene	830	E
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U

UKJ

→ Report from J8K44ME
9/17/08

8/28/08

BREMERTON-012868

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K44

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.06

Sample wt/vol: 5.600 (g/mL) G Lab File ID: B16308

Level: (TRACE or LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 11 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	13.81	18	JN
02		Unknown-02	14.84	20	JN
03	000095-63-6	Benzene, 1,2,4-trimethyl-	15.49	47	NJ
04	000526-73-8	Benzene, 1,2,3-trimethyl-	15.67	17	NJ
05		Unknown-03	16.00	16	JN
06		Unknown-04	16.02	15	JN
07	000108-67-8	Benzene, 1,3,5-trimethyl-	16.35	50	NJ
08		Unknown-05	17.12	38	JN
09	000496-11-7	Indane	17.33	45	NJ
10		Unknown-06	17.45	15	JN
11		Unknown-07	17.57	16	JN
12		Unknown-08	17.58	22	JN
13	000095-13-6	Indene	17.90	80	NJ
14	000874-41-9	Benzene, 1-ethyl-2,4-dimethyl	18.12	25	NJ
15	000527-84-4	Benzene, 1-methyl-2-(1-methyl	18.25	19	NJ
16	1000152-47-3	trans-Decalin, 2-methyl-	18.35	14	NJ
17	007525-62-4	Benzene, 1-ethenyl-3-ethyl-	18.39	22	NJ
18	002958-75-0	1-Methyldecahydronaphthalene	18.72	17	NJ
19	000095-93-2	Benzene, 1,2,4,5-tetramethyl-	19.01	17	NJ
20	000488-23-3	Benzene, 1,2,3,4-tetramethyl-	19.10	19	NJ
21	056253-64-6	Benzene, (2-methyl-1-butenyl)	19.47	17	NJ
22		Unknown-09	19.79	25	JN
23	000527-53-7	Benzene, 1,2,35-tetramethyl-	19.86	23	NJ
24	065051-83-4	Benzene, (1-methyl-2-cyclopro	20.05	22	NJ
25	002177-47-1	2-Methylindene	20.30	18	NJ
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A	120	JN

1 EPA-designated Registry Number.

8/28/08 00165

BREMERTON-012869

~~DO NOT REPORT~~

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K44ME

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.06ME

Sample wt/vol: 2.800 (g/mL) G Lab File ID: B16410

Level: (TRACE/LOW/MED) MED Date Received: 05/15/2008

% Moisture: not dec. 11 Date Analyzed: 05/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 1 (uL)

Purge Volume: 5.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11000	U
74-87-3	Chloromethane	11000	U
75-01-4	Vinyl chloride	11000	U
74-83-9	Bromomethane	11000	U
75-00-3	Chloroethane	11000	U
75-69-4	Trichlorofluoromethane	11000	U
75-35-4	1,1-Dichloroethene	11000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11000	U
67-64-1	Acetone	53000	U
75-15-0	Carbon disulfide	11000	U
79-20-9	Methyl acetate	11000	U
75-09-2	Methylene chloride	17000	B
156-60-5	trans-1,2-Dichloroethene	11000	U
1634-04-4	Methyl tert-butyl ether	11000	U
75-34-3	1,1-Dichloroethane	11000	U
156-59-2	cis-1,2-Dichloroethene	11000	U
78-93-3	2-Butanone	53000	U
74-97-5	Bromochloromethane	11000	U
67-66-3	Chloroform	11000	U
71-55-6	1,1,1-Trichloroethane	11000	U
110-82-7	Cyclohexane	11000	U
56-23-5	Carbon tetrachloride	11000	U
71-43-2	Benzene	11000	U
107-06-2	1,2-Dichloroethane	11000	U
123-91-1	1,4-Dioxane	1100000	U
79-01-6	Trichloroethene	11000	U
108-87-2	Methylcyclohexane	11000	U
78-87-5	1,2-Dichloropropane	11000	U
75-27-4	Bromodichloromethane	11000	U
10061-01-5	cis-1,3-Dichloropropene	11000	U
108-10-1	4-Methyl-2-pentanone	53000	U
108-88-3	Toluene	11000	U
10061-02-6	trans-1,3-Dichloropropene	11000	U
79-00-5	1,1,2-Trichloroethane	11000	U

8/28/08

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K44ME

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.06ME

Sample wt/vol: 2.800 (g/mL) G Lab File ID: B16410

Level: (TRACE/LOW/MED) MED Date Received: 05/15/2008

% Moisture: not dec. 11 Date Analyzed: 05/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 1 (uL)

Purge Volume: 5.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	11000	U
591-78-6	2-Hexanone	53000	U
124-48-1	Dibromochloromethane	11000	U
106-93-4	1,2-Dibromoethane	11000	U
108-90-7	Chlorobenzene	11000	U
100-41-4	Ethylbenzene	11000	U
95-47-6	o-Xylene	11000	U
179601-23-1	m,p-Xylene	11000	U
100-42-5	Styrene	11000	U
75-25-2	Bromoform	11000	U
98-82-8	Isopropylbenzene	11000	U
79-34-5	1,1,2,2-Tetrachloroethane	11000	U
541-73-1	1,3-Dichlorobenzene	11000	U
106-46-7	1,4-Dichlorobenzene	11000	U
95-50-1	1,2-Dichlorobenzene	11000	U
96-12-8	1,2-Dibromo-3-chloropropane	11000	U
120-82-1	1,2,4-Trichlorobenzene	53000	U
87-61-6	1,2,3-Trichlorobenzene	53000	U
87-68-3	Hexachlorobutadiene	11000	U
67-72-1	Hexachloroethane	21000	U
91-20-3	Naphthalene	270000	B
630-20-6	1,1,1,2-Tetrachloroethane	11000	U
96-18-4	1,2,3-Trichloropropane	11000	U

→ Report
9/17/08

8/29/08

BREMERTON-012871

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K44ME

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.06ME

Sample wt/vol: 2.800 (g/mL) G Lab File ID: B16410

Level: (TRACE or LOW/MED) MED Date Received: 05/15/2008

% Moisture: not dec. 11 Date Analyzed: 05/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.53	37000	JN
02		Unknown-02	11.13	71000	JN
03	000095-63-6	Benzene, 1,2,4-trimethyl-	16.32	25000	NJ
04		Unknown-03	17.55	32000	JN
05	000095-13-6	Indene	17.87	32000	NJ
06	1000152-47-3	trans-Decalin, 2-methyl-	18.32	24000	NJ
07		Unknown-04	18.70	28000	JN
08	003333-13-9	Benzene, 1-methyl-4-(2-propen	19.44	33000	NJ
09		Unknown-05	19.55	26000	JN
10		Unknown-06	19.76	27000	JN
11	000488-23-3	Benzene, 1,2,3,4-tetramethyl-	19.82	31000	NJ
12		Unknown-07	20.32	42000	JN
13		Unknown-08	20.53	43000	J
14		Unknown-09	20.64	22000	J
15		Unknown-10	21.51	22000	J
16		Unknown-11	21.59	29000	J
17	017057-82-8	1H-Indene, 2,3-dihydro-1,2-di	21.94	44000	NJ
18		Unknown-12	22.21	27000	JN
19		Unknown-13	23.24	120000	JN
20	000090-12-0	Naphthalene, 1-methyl-	23.53	66000	NJ
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A		

1 EPA-designated Registry Number.

SOM01.2 (6/2007)

BREMERTON-012872

Report All Except PAHs

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K44

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.06

Sample wt/vol: 100.0 (g/mL) G Lab File ID: G0823

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	22	U
108-95-2	Phenol	22	U
111-44-4	Bis(2-chloroethyl)ether	22	U
95-57-8	2-Chlorophenol	22	U
95-48-7	2-Methylphenol	22	U
108-60-1	2,2'-Oxybis(1-chloropropane)	22	U
98-86-2	Acetophenone	22	U
106-44-5	4-Methylphenol	22	U
621-64-7	N-Nitroso-di-n-propylamine	22	U
67-72-1	Hexachloroethane	22	U
98-95-3	Nitrobenzene	22	U
78-59-1	Isophorone	22	U
88-75-5	2-Nitrophenol	22	U
105-67-9	2,4-Dimethylphenol	22	U
111-91-1	Bis(2-chloroethoxy)methane	22	U
120-83-2	2,4-Dichlorophenol	22	U
91-20-3	Naphthalene	22	U
106-47-8	4-Chloroaniline	22	U
87-68-3	Hexachlorobutadiene	22	U
105-60-2	Caprolactam	22	U
59-50-7	4-Chloro-3-methylphenol	22	U
91-57-6	2-Methylnaphthalene	22	U
77-47-4	Hexachlorocyclopentadiene	56	UJ
88-06-2	2,4,6-Trichlorophenol	22	U
95-95-4	2,4,5-Trichlorophenol	22	U
92-52-4	1,1'-Biphenyl	22	U
91-58-7	2-Chloronaphthalene	22	U
88-74-4	2-Nitroaniline	45	U
131-11-3	Dimethylphthalate	22	U
606-20-2	2,6-Dinitrotoluene	22	U
208-96-8	Acenaphthylene	22	U
99-09-2	3-Nitroaniline	45	U
83-32-9	Acenaphthene	22	U
51-28-5	2,4-Dinitrophenol	110	UJ
100-02-7	4-Nitrophenol	45	U
132-64-9	Dibenzofuran	22	U
121-14-2	2,4-Dinitrotoluene	22	U

9/3/08

BREMERTON-012873

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K44

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.06

Sample wt/vol: 100.0 (g/mL) G Lab File ID: G0823

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	22	U
86-73-7	Fluorene	22	U
7005-72-3	4-Chlorophenyl-phenylether	22	U
100-01-6	4-Nitroaniline	45	U
534-52-1	4,6-Dinitro-2-methylphenol	45	U
86-30-6	N-Nitrosodiphenylamine 1	22	U
95-94-3	1,2,4,5-Tetrachlorobenzene	22	U
101-55-3	4-Bromophenyl-phenylether	22	U
118-74-1	Hexachlorobenzene	22	U
1912-24-9	Atrazine	22	U
87-86-5	Pentachlorophenol	22	UJ
85-01-8	Phenanthrene	17	J
120-12-7	Anthracene	22	U
86-74-8	Carbazole	22	U
84-74-2	Di-n-butylphthalate	22	U
206-44-0	Fluoranthene	22	U
129-00-0	Pyrene	22	U
85-68-7	Butylbenzylphthalate	22	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	22	U
218-01-9	Chrysene	22	U
117-81-7	Bis(2-ethylhexyl)phthalate	100	
117-84-0	Di-n-octylphthalate	22	U
205-99-2	Benzo(b)fluoranthene	22	U
207-08-9	Benzo(k)fluoranthene	22	U
50-32-8	Benzo(a)pyrene	22	U
193-39-5	Indeno(1,2,3-cd)pyrene	22	U
53-70-3	Dibenzo(a,h)anthracene	22	U
191-24-2	Benzo(g,h,i)perylene	22	U
58-90-2	2,3,4,6-Tetrachlorophenol	22	U
92-87-5	Benzidine	22	U
95-50-1	1,2-Dichlorobenzene	22	U
106-46-7	1,4-Dichlorobenzene	22	U
541-73-1	1,3-Dichlorobenzene	22	U
62-75-9	N-Nitrosodimethylamine	22	U
95-63-6	1,2,4-Trimethylbenzene	22	U
108-67-8	1,3,5-Trimethylbenzene	22	U

1 Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012874

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K44

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.06

Sample wt/vol: 100.0 (g/mL) G Lab File ID: G0823

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.28	59	JN
02		Unknown-02	3.09	140	J
03		Unknown-03	4.17	87	J
04		Unknown-04	4.40	65	J
05		Unknown-05	4.67	66	J
06		Unknown-06	4.91	84	J
07		Unknown-07	8.09	120	J
08	1000151-92-4	p-menth-1-en-8-ol	8.60	68	NJ
09		Unknown-08	10.09	180	JN
10	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.26	300	NJ
11		Unknown-09	10.57	80	JN
12		Unknown-10	12.62	110	JN
13	003674-66-6	Phenanthrene, 2,5-dimethyl-	15.58	75	NJ
14	007683-64-9	Squalene	18.23	64	NJ
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667962	Total Alkanes	N/A	80	JN

[2] EPA-designated Registry Number.

9/3/08

BREMERTON-012875

Report All PAHs Except Phenanthrene & Pyrene

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K44

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.06

Sample wt/vol: 100.0 (g/mL) G Lab File ID: G0917

Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/14/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
91-20-3	Naphthalene	5.0		
91-57-6	2-Methylnaphthalene	5.4		
208-96-8	Acenaphthylene	1.8		
83-32-9	Acenaphthene	7.6		
86-73-7	Fluorene	5.0		
87-86-5	Pentachlorophenol	2.2	U	
85-01-8	Phenanthrene	18	E	→ Report from J8K44DL(SI
120-12-7	Anthracene	5.6		
206-44-0	Fluoranthene	9.1		
129-00-0	Pyrene	12	E	→ "
56-55-3	Benzo(a)anthracene	4.1		
218-01-9	Chrysene	5.2		
205-99-2	Benzo(b)fluoranthene	1.8	J	
207-08-9	Benzo(k)fluoranthene	2.2	J	
50-32-8	Benzo(a)pyrene	4.1		
193-39-5	Indeno(1,2,3-cd)pyrene	2.6		
53-70-3	Dibenzo(a,h)anthracene	1.9		
191-24-2	Benzo(g,h,i)perylene	2.8		

1 Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012876

Report Only Phenanthrene & Pyrene

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K44DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.06DL

Sample wt/vol: 100.0 (g/mL) G Lab File ID: G0933

Extraction: (Type) SONC

% Moisture: 11 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 2.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	6.6	D
91-57-6	2-Methylnaphthalene	6.6	D
208-96-8	Acenaphthylene	1.7	DJ
83-32-9	Acenaphthene	9.0	D
86-73-7	Fluorene	7.4	D
87-86-5	Pentachlorophenol	4.5	U
85-01-8	Phenanthrene	21	Ø → Report
120-12-7	Anthracene	7.2	D
206-44-0	Fluoranthene	10	D
129-00-0	Pyrene	16	Ø → "
56-55-3	Benzo(a)anthracene	4.5	D
218-01-9	Chrysene	6.4	D
205-99-2	Benzo(b)fluoranthene	2.1	DJ
207-08-9	Benzo(k)fluoranthene	2.7	D
50-32-8	Benzo(a)pyrene	4.3	D
193-39-5	Indeno(1,2,3-cd)pyrene	3.3	D
53-70-3	Dibenzo(a,h)anthracene	2.5	D
191-24-2	Benzo(g,h,i)perylene	4.0	D

[1] Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012877

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K45

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.07

Sample wt/vol: 3.700 (g/mL) G Lab File ID: B16323

Level: (TRACE/LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 10 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.5	U
74-87-3	Chloromethane	1.5	U
75-01-4	Vinyl chloride	1.5	U
74-83-9	Bromomethane	1.5	U
75-00-3	Chloroethane	1.5	U
75-69-4	Trichlorofluoromethane	1.5	U
75-35-4	1,1-Dichloroethene	1.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.5	U
67-64-1	Acetone	13	
75-15-0	Carbon disulfide	1.5	U
79-20-9	Methyl acetate	1.5	U
75-09-2	Methylene chloride	1.5	U
156-60-5	trans-1,2-Dichloroethene	1.5	U
1634-04-4	Methyl tert-butyl ether	1.5	U
75-34-3	1,1-Dichloroethane	1.5	U
156-59-2	cis-1,2-Dichloroethene	1.5	U
78-93-3	2-Butanone	7.5	U
74-97-5	Bromochloromethane	1.5	U
67-66-3	Chloroform	1.5	U
71-55-6	1,1,1-Trichloroethane	1.5	U
110-82-7	Cyclohexane	1.5	U
56-23-5	Carbon tetrachloride	1.5	U
71-43-2	Benzene	1.5	U
107-06-2	1,2-Dichloroethane	1.5	U
123-91-1	1,4-Dioxane	150	U
79-01-6	Trichloroethene	1.5	U
108-87-2	Methylcyclohexane	1.5	U
78-87-5	1,2-Dichloropropane	1.5	U
75-27-4	Bromodichloromethane	1.5	U
10061-01-5	cis-1,3-Dichloropropene	1.5	U
108-10-1	4-Methyl-2-pentanone	7.5	U
108-88-3	Toluene	1.5	U
10061-02-6	trans-1,3-Dichloropropene	1.5	U
79-00-5	1,1,2-Trichloroethane	1.5	U

5/28/08

SOM01.2 (6/2007)

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K45

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.07

Sample wt/vol: 3.700 (g/mL) G Lab File ID: B16323

Level: (TRACE/LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 10 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.5	U
591-78-6	2-Hexanone	7.5	UJ
124-48-1	Dibromochloromethane	1.5	U
106-93-4	1,2-Dibromoethane	1.5	U
108-90-7	Chlorobenzene	1.5	U
100-41-4	Ethylbenzene	1.5	U
95-47-6	o-Xylene	1.5	U
179601-23-1	m,p-Xylene	1.5	U
100-42-5	Styrene	1.5	U
75-25-2	Bromoform	1.5	U
98-82-8	Isopropylbenzene	1.5	U
79-34-5	1,1,2,2-Tetrachloroethane	1.5	U
541-73-1	1,3-Dichlorobenzene	1.5	U
106-46-7	1,4-Dichlorobenzene	1.5	U
95-50-1	1,2-Dichlorobenzene	1.5	U
96-12-8	1,2-Dibromo-3-chloropropane	1.5	U
120-82-1	1,2,4-Trichlorobenzene	7.5	U
87-61-6	1,2,3-Trichlorobenzene	7.5	U
87-68-3	Hexachlorobutadiene	1.5	U
67-72-1	Hexachloroethane	3.0	U
91-20-3	Naphthalene	1.5 ~~0.98~~	~~JBU~~
630-20-6	1,1,1,2-Tetrachloroethane	1.5	U
96-18-4	1,2,3-Trichloropropane	1.5	U

8/28/08

BREMERTON-012879

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K45

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.07

Sample wt/vol: 3.700 (g/mL) G Lab File ID: B16323

Level: (TRACE or LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 10 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.50	5.8	JN
02	000541-05-9	Cyclotrisiloxane, hexamethyl-	11.11	12	NJ
03		Unknown-02	11.16	8.3	JN
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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17					
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19					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/25/08 88245

Report All Except PAHs

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K45

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.07

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0824

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	22	U
108-95-2	Phenol	22	U
111-44-4	Bis(2-chloroethyl)ether	22	U
95-57-8	2-Chlorophenol	22	U
95-48-7	2-Methylphenol	22	U
108-60-1	2,2'-Oxybis(1-chloropropane)	22	U
98-86-2	Acetophenone	22	U
106-44-5	4-Methylphenol	22	U
621-64-7	N-Nitroso-di-n-propylamine	22	U
67-72-1	Hexachloroethane	22	U
98-95-3	Nitrobenzene	22	U
78-59-1	Isophorone	22	U
88-75-5	2-Nitrophenol	22	U
105-67-9	2,4-Dimethylphenol	22	U
111-91-1	Bis(2-chloroethoxy)methane	22	U
120-83-2	2,4-Dichlorophenol	22	U
91-20-3	Naphthalene	22	U
106-47-8	4-Chloroaniline	22	U
87-68-3	Hexachlorobutadiene	22	U
105-60-2	Caprolactam	22	U
59-50-7	4-Chloro-3-methylphenol	22	U
91-57-6	2-Methylnaphthalene	22	U
77-47-4	Hexachlorocyclopentadiene	55	UJ
88-06-2	2,4,6-Trichlorophenol	22	U
95-95-4	2,4,5-Trichlorophenol	22	U
92-52-4	1,1'-Biphenyl	22	U
91-58-7	2-Chloronaphthalene	22	U
88-74-4	2-Nitroaniline	44	U
131-11-3	Dimethylphthalate	22	U
606-20-2	2,6-Dinitrotoluene	22	U
208-96-8	Acenaphthylene	22	U
99-09-2	3-Nitroaniline	44	U
83-32-9	Acenaphthene	22	U
51-28-5	2,4-Dinitrophenol	110	UJ
100-02-7	4-Nitrophenol	44	U
132-64-9	Dibenzofuran	22	U
121-14-2	2,4-Dinitrotoluene	22	U

9/3/08

BREMERTON-012881

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K45

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.07

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0824

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	22	U
86-73-7	Fluorene	22	U
7005-72-3	4-Chlorophenyl-phenylether	22	U
100-01-6	4-Nitroaniline	44	U
534-52-1	4,6-Dinitro-2-methylphenol	44	U
86-30-6	N-Nitrosodiphenylamine 1	22	U
95-94-3	1,2,4,5-Tetrachlorobenzene	22	U
101-55-3	4-Bromophenyl-phenylether	22	U
118-74-1	Hexachlorobenzene	22	U
1912-24-9	Atrazine	22	U
87-86-5	Pentachlorophenol	22	UJ
85-01-8	Phenanthrene	22	U
120-12-7	Anthracene	22	U
86-74-8	Carbazole	22	U
84-74-2	Di-n-butylphthalate	22	U
206-44-0	Fluoranthene	22	U
129-00-0	Pyrene	22	U
85-68-7	Butylbenzylphthalate	22	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	22	U
218-01-9	Chrysene	22	U
117-81-7	Bis(2-ethylhexyl)phthalate	100	
117-84-0	Di-n-octylphthalate	22	U
205-99-2	Benzo(b)fluoranthene	22	U
207-08-9	Benzo(k)fluoranthene	22	U
50-32-8	Benzo(a)pyrene	22	U
193-39-5	Indeno(1,2,3-cd)pyrene	22	U
53-70-3	Dibenzo(a,h)anthracene	22	U
191-24-2	Benzo(g,h,i)perylene	22	U
58-90-2	2,3,4,6-Tetrachlorophenol	22	U
92-87-5	Benzidine	22	U
95-50-1	1,2-Dichlorobenzene	22	U
106-46-7	1,4-Dichlorobenzene	22	U
541-73-1	1,3-Dichlorobenzene	22	U
62-75-9	N-Nitrosodimethylamine	22	U
95-63-6	1,2,4-Trimetnylbenzene	22	U
108-67-8	1,3,5-Trimethylbenzene	22	U

1 Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012882

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K45

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.07

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0824

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.27	57	JN
02		Unknown-02	2.31	54	J
03		Unknown-03	2.58	46	J
04		Unknown-04	3.09	150	J
05		Unknown-05	4.17	130	J
06		Unknown-06	4.40	58	J
07		Unknown-07	4.67	57	J
08		Unknown-08	4.91	74	J
09		Unknown-09	8.08	72	J
10	1000157-89-9	p-menth-1-en-8-ol	8.60	61	NJ
11		Unknown-10	10.07	110	JN
12	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.26	230	NJ
13		Unknown-11	10.57	55	JN
14		Unknown-12	12.59	61	JN
15					
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28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (9/2007)

9/3/08

Report All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K45

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.07

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0918

Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/14/2008

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1,1 ~~0.95~~	~~J~~ U
91-57-6	2-Methylnaphthalene	1.1	U
208-96-8	Acenaphthylene	1.1	U
83-32-9	Acenaphthene	1.1	U
86-73-7	Fluorene	1.1	U
87-86-5	Pentachlorophenol	2.2	U
85-01-8	Phenanthrene	0.83	JQ
120-12-7	Anthracene	1.1	U
206-44-0	Fluoranthene	1.1	U
129-00-0	Pyrene	0.75	JQ
56-55-3	Benzo(a)anthracene	1.1	U
218-01-9	Chrysene	0.73	JQ
205-99-2	Benzo(b)fluoranthene	1.1	UJ
207-08-9	Benzo(k)fluoranthene	0.56	JQ
50-32-8	Benzo(a)pyrene	1.0	JQ
193-39-5	Indeno(1,2,3-cd)pyrene	1.6	
53-70-3	Dibenzo(a,h)anthracene	1.4	
191-24-2	Benzo(g,h,i)perylene	1.7	

1 Cannot be separated from Diphenylamine

V

SOM01.2 (6/2007)

9/3/08

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K46

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.08

Sample wt/vol: 4.900 (g/mL) G Lab File ID: B16324

Level: (TRACE/LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 15 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.2	U
74-87-3	Chloromethane	1.2	U
75-01-4	Vinyl chloride	1.2	U
74-83-9	Bromomethane	1.2	U
75-00-3	Chloroethane	1.2	U
75-69-4	Trichlorofluoromethane	1.2	U
75-35-4	1,1-Dichloroethene	1.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U
67-64-1	Acetone	6.0	U
75-15-0	Carbon disulfide	1.2	U
79-20-9	Methyl acetate	1.2	U
75-09-2	Methylene chloride	1.2 ~~9.59~~	~~JB~~ U
156-60-5	trans-1,2-Dichloroethene	1.2	U
1634-04-4	Methyl tert-butyl ether	1.2	U
75-34-3	1,1-Dichloroethane	1.2	U
156-59-2	cis-1,2-Dichloroethene	1.2	U
78-93-3	2-Butanone	6.0	U
74-97-5	Bromochloromethane	1.2	U
67-66-3	Chloroform	1.2	U
71-55-6	1,1,1-Trichloroethane	1.2	U
110-82-7	Cyclohexane	1.2	U
56-23-5	Carbon tetrachloride	1.2	U
71-43-2	Benzene	1.2	U
107-06-2	1,2-Dichloroethane	1.2	U
123-91-1	1,4-Dioxane	120	U
79-01-6	Trichloroethene	1.2	U
108-87-2	Methylcyclohexane	1.2	U
78-87-5	1,2-Dichloropropane	1.2	U
75-27-4	Bromodichloromethane	1.2	U
10061-01-5	cis-1,3-Dichloropropene	1.2	U
108-10-1	4-Methyl-2-pentanone	6.0	U
108-88-3	Toluene	1.2	U
10061-02-6	trans-1,3-Dichloropropene	1.2	U
79-00-5	1,1,2-Trichloroethane	1.2	U

5/29/08

BREMERTON-012885

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K46

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.08

Sample wt/vol: 4.900 (g/mL) G Lab File ID: B16324

Level: (TRACE/LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 15 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.2	U
591-78-6	2-Hexanone	6.0	UJ
124-48-1	Dibromochloromethane	1.2	U
106-93-4	1,2-Dibromoethane	1.2	U
108-90-7	Chlorobenzene	1.2	U
100-41-4	Ethylbenzene	1.2	U
95-47-6	o-Xylene	1.2	U
179601-23-1	m,p-Xylene	1.2	U
100-42-5	Styrene	1.2	U
75-25-2	Bromoform	1.2	U
98-82-8	Isopropylbenzene	1.2	U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	U
541-73-1	1,3-Dichlorobenzene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.2	U
120-82-1	1,2,4-Trichlorobenzene	6.0	U
87-61-6	1,2,3-Trichlorobenzene	6.0	U
87-68-3	Hexachlorobutadiene	1.2	U
67-72-1	Hexachloroethane	2.4	U
91-20-3	Naphthalene	1.2 ~~0.66~~	~~JB~~ U
630-20-6	1,1,1,2-Tetrachloroethane	1.2	U
96-18-4	1,2,3-Trichloropropane	1.2	U

5/28/08

BREMERTON-012886

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K46

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.08

Sample wt/vol: 4.900 (g/mL) G Lab File ID: B16324

Level: (TRACE or LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 15 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.16	5.5	JBN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A	5.0	JN

1 EPA-designated Registry Number.

8/28/08

BREMERTON-012887

Report All except those reported from Full Scan DL 8 Full Scan DL 2

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K46

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.08

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G0844

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
100-52-7	Benzaldehyde	23	U	
108-95-2	Phenol	23	U	
111-44-4	Bis(2-chloroethyl)ether	23	U	
95-57-8	2-Chlorophenol	23	U	
95-48-7	2-Methylphenol	23	U	
108-60-1	2,2'-Oxybis(1-chloropropane)	23	U	
98-86-2	Acetophenone	23	U	
106-44-5	4-Methylphenol	23	U	
621-64-7	N-Nitroso-di-n-propylamine	23	U	
67-72-1	Hexachloroethane	23	U	
98-95-3	Nitrobenzene	23	U	
78-59-1	Isophorone	23	U	
88-75-5	2-Nitrophenol	23	U	
105-67-9	2,4-Dimethylphenol	23	U	
111-91-1	Bis(2-chloroethoxy)methane	23	U	
120-83-2	2,4-Dichlorophenol	23	U	
91-20-3	Naphthalene	2500	E	→ Report from J8K44 DL2 (Full S.)
106-47-8	4-Chloroaniline	23	U	
87-68-3	Hexachlorobutadiene	23	U	
105-60-2	Caprolactam	23	U	
59-50-7	4-Chloro-3-methylphenol	23	U	
91-57-6	2-Methylnaphthalene	3200	E	→ "
77-47-4	Hexachlorocyclopentadiene	58	UJ	
88-06-2	2,4,6-Trichlorophenol	23	U	
95-95-4	2,4,5-Trichlorophenol	23	U	
92-52-4	1,1'-Biphenyl	300	J	
91-58-7	2-Chloronaphthalene	23	U	
88-74-4	2-Nitroaniline	47	U	
131-11-3	Dimethylphthalate	23	U	
606-20-2	2,6-Dinitrotoluene	23	U	
208-96-8	Acenaphthylene	430	E	→ Report from J8K4DL (Full S.)
99-09-2	3-Nitroaniline	47	U	
83-32-9	Acenaphthene	1200	E	→ "
51-28-5	2,4-Dinitrophenol	120	UJ	
100-02-7	4-Nitrophenol	47	U	
132-64-9	Dibenzofuran	310	J	
121-14-2	2,4-Dinitrotoluene	23	U	

9/2/08

BREMERTON-012888

Report All Except those marked otherwise

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. J8K46

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.08

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G0844

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
84-66-2	Diethylphthalate	23	U	
86-73-7	Fluorene	920	E	→ Repeat from J8K461 (Full S.)
7005-72-3	4-Chlorophenyl-phenylether	23	U	
100-01-6	4-Nitroaniline	47	U	
534-52-1	4,6-Dinitro-2-methylphenol	47	U	
86-30-6	N-Nitrosodiphenylamine 1	23	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	23	U	
101-55-3	4-Bromophenyl-phenylether	23	U	
118-74-1	Hexachlorobenzene	23	U	
1912-24-9	Atrazine	23	U	
87-86-5	Pentachlorophenol	23	UJ	→ Repeat from J8K46DL (Full S.)
85-01-8	Phenanthrene	940	E	
120-12-7	Anthracene	330		
86-74-8	Carbazole	23	U	
84-74-2	Di-n-butylphthalate	23	U	
206-44-0	Fluoranthene	630	E	→ Repeat from J8K46DL (Full S.)
129-00-0	Pyrene	650	E	→ "
85-68-7	Butylbenzylphthalate	23	U	
91-94-1	3,3'-Dichlorobenzidine	23	U	
56-55-3	Benzo(a)anthracene	350	J	
218-01-9	Chrysene	280	J	
117-81-7	Bis(2-ethylhexyl)phthalate	23	U	
117-84-0	Di-n-octylphthalate	23	U	
205-99-2	Benzo(b)fluoranthene	820	E	→ "
207-08-9	Benzo(k)fluoranthene	470	E	→ "
50-32-8	Benzo(a)pyrene	1000	E	→ "
193-39-5	Indeno(1,2,3-cd)pyrene	740	E	→ "
53-70-3	Dibenzo(a,h)anthracene	240	J	
191-24-2	Benzo(g,h,i)perylene	840	E	→ "
58-90-2	2,3,4,6-Tetrachlorophenol	23	U	
92-87-5	Benzidine	23	U	
95-50-1	1,2-Dichlorobenzene	23	U	
106-46-7	1,4-Dichlorobenzene	23	U	
541-73-1	1,3-Dichlorobenzene	23	U	
62-75-9	N-Nitrosodimethylamine	23	U	
95-63-6	1,2,4-Trimethylbenzene	42		
108-67-8	1,3,5-Trimethylbenzene	140		

1 Cannot be separated from Diphenylamine

 9/3/08

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K46

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.08

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G0844

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.4 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000673-32-5	Benzene, 1-propynyl-	6.30	290	NJ
02	000493-02-7	Naphthalene, decahydro-, tran	6.46	420	NJ
03		Unknown-01	6.78	310	JN
04	054676-39-0	Cyclohexane, 2-butyl-1,1,3-tr	9.06	190	NJ
05		Unknown-02	9.27	220	JN
06		Unknown-03	9.42	350	J
07		Unknown-04	9.51	220	J
08		Unknown-05	9.73	740	J
09		Unknown-06	9.88	410	J
10		Unknown-07	10.01	360	J
11		Unknown-08	10.11	220	J
12		Unknown-09	10.29	290	J
13		Unknown-10	10.36	280	J
14	000575-43-9	Naphthalene, 1,6-dimethyl-	11.52	200	NJ
15		Unknown-11	11.66	200	JN
16		Unknown-12	11.83	200	J
17		Unknown-13	11.87	230	J
18	002131-42-2	Naphthalene, 1,4,6-trimethyl-	12.60	300	NJ
19		Unknown-14	12.97	390	JN
20	002245-38-7	Naphthalene, 1,6,7-trimethyl-	13.10	420	NJ
21		Unknown-15	13.32	290	JN
22	003674-73-5	Phenanthrene, 2,3,5-trimethyl	16.12	230	NJ
23		Unknown-16	18.20	390	JN
24		Unknown-17	18.36	230	JN
25	000192-97-2	Benzo[e]fluoranthene	18.69	480	NJ
26		Unknown-18	18.83	210	JN
27		Unknown-19	19.06	660	JN
28	000239-85-0	13H-Dibenzo[a,h]fluorene	19.40	230	NJ
29					
30					
	E966796[2]	Total Alkanes	N/A	960	JN

[2] EPA-designated Registry Number.

9/3/08

BREMERTON-012890

Report All Marked report

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K46DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.08DL

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G0887

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.4 Dilution Factor: 10.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	230	U
108-95-2	Phenol	230	U
111-44-4	Bis(2-chloroethyl)ether	230	U
95-57-8	2-Chlorophenol	230	U
95-48-7	2-Methylphenol	230	U
108-60-1	2,2'-Oxybis(1-chloropropane)	230	U
98-86-2	Acetophenone	230	U
106-44-5	4-Methylphenol	230	U
621-64-7	N-Nitroso-di-n-propylamine	230	U
67-72-1	Hexachloroethane	230	U
98-95-3	Nitrobenzene	230	U
78-59-1	Isophorone	230	U
88-75-5	2-Nitrophenol	230	U
105-67-9	2,4-Dimethylphenol	230	U
111-91-1	Bis(2-chloroethoxy)methane	230	U
120-83-2	2,4-Dichlorophenol	230	U
91-20-3	Naphthalene	7600	DE
106-47-8	4-Chloroaniline	230	U
87-68-3	Hexachlorobutadiene	230	U
105-60-2	Caprolactam	230	U
59-50-7	4-Chloro-3-methylphenol	230	U
91-57-6	2-Methylnaphthalene	5200	DE
77-47-4	Hexachlorocyclopentadiene	580	U
88-06-2	2,4,6-Trichlorophenol	230	U
95-95-4	2,4,5-Trichlorophenol	230	U
92-52-4	1,1'-Biphenyl	470	D
91-58-7	2-Chloronaphthalene	230	U
88-74-4	2-Nitroaniline	470	U
131-11-3	Dimethylphthalate	230	U
606-20-2	2,6-Dinitrotoluene	230	U
208-96-8	Acenaphthylene	880	J → Report
99-09-2	3-Nitroaniline	470	U
83-32-9	Acenaphthene	3400	J → "
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	470	U
132-64-9	Dibenzofuran	230	U
121-14-2	2,4-Dinitrotoluene	230	U

SOM01.2 (6/2007)

9/3/08

G1176

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K46DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.08DL

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G0887

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.4 Dilution Factor: 10.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
84-66-2	Diethylphthalate	230	U	
86-73-7	Fluorene	2000	~~D~~ J	→ Report
7005-72-3	4-Chlorophenyl-phenylether	230	U	
100-01-6	4-Nitroaniline	470	U	
534-52-1	4,6-Dinitro-2-methylphenol	470	U	
86-30-6	N-Nitrosodiphenylamine 1	230	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U	
101-55-3	4-Bromophenyl-phenylether	230	U	
118-74-1	Hexachlorobenzene	230	U	
1912-24-9	Atrazine	230	U	
87-86-5	Pentachlorophenol	230	U	
85-01-8	Phenanthrene	6500	DE	
120-12-7	Anthracene	1800	D	
86-74-8	Carbazole	230	U	
84-74-2	Di-n-butylphthalate	230	U	
206-44-0	Fluoranthene	2900	~~D~~ J	→ Report
129-00-0	Pyrene	3600	~~D~~ J	→ "
85-68-7	Butylbenzylphthalate	230	U	
91-94-1	3,3'-Dichlorobenzidine	230	U	
56-55-3	Benzo(a)anthracene	1000	D	
218-01-9	Chrysene	1000	D	
117-81-7	Bis(2-ethylhexyl)phthalate	230	U	
117-84-0	Di-n-octylphthalate	230	U	
205-99-2	Benzo(b)fluoranthene	640	~~D~~	→ "
207-08-9	Benzo(k)fluoranthene	670	~~D~~	→ "
50-32-8	Benzo(a)pyrene	1700	~~D~~	→ "
193-39-5	Indeno(1,2,3-cd)pyrene	770	~~D~~	→ "
53-70-3	Dibenzo(a,h)anthracene	210	DJ	
191-24-2	Benzo(g,h,i)perylene	890	~~D~~	→ "
58-90-2	2,3,4,6-Tetrachlorophenol	230	U	
92-87-5	Benzidine	230	U	
95-50-1	1,2-Dichlorobenzene	230	U	
106-46-7	1,4-Dichlorobenzene	230	U	
541-73-1	1,3-Dichlorobenzene	230	U	
62-75-9	N-Nitrosodimethylamine	230	U	
95-63-6	1,2,4-Trimethylbenzene	230	U	
108-67-8	1,3,5-Trimethylbenzene	160	DJ	

1 Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012892

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K46DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.08DL

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G0887

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.4 Dilution Factor: 10.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000934-80-5	Benzene, 4-ethyl-1,2-dimethyl	8.02	1200	DNJ
02		Unknown-01	8.09	1000	DJ
03		Unknown-02	8.64	1000	DJ
04		Unknown-03	8.70	1500	DJ
05	054676-39-0	Cyclohexane, 2-butyl-1,1,3-tr	9.05	1700	DNJ
06		Unknown-04	9.13	1300	DJ
07		Unknown-05	9.26	1700	DJ
08		Unknown-06	9.29	1200	DJ
09		Unknown-07	9.38	1100	DJ
10	005359-04-6	Ethanone, 1-[4-(1-methylethen	9.41	1800	DNJ
11		Unknown-08	9.50	1800	DJ
12		Unknown-09	9.59	1600	DJ
13		Unknown-10	9.63	1300	DJ
14		Unknown-11	9.86	2200	DJ
15		Unknown-12	9.93	1600	DJ
16		Unknown-13	9.99	1600	DJ
17		Unknown-14	10.03	1100	DJ
18		Unknown-15	10.09	2000	DJ
19		Unknown-16	10.26	2400	DJ
20		Unknown-17	10.33	2400	DJ
21	000091-57-6	Naphthalene, 2-methyl-	10.43	5900	DNJ
22	002131-42-2	Naphthalene, 1,4,6-trimethyl-	12.75	1700	DNJ
23	002131-42-2	Naphthalene, 1,4,6-trimethyl-	12.79	1100	DNJ
24	002131-42-2	Naphthalene, 1,4,6-trimethyl-	12.94	1700	DNJ
25		Unknown-18	13.28	1200	DJ
26	000217-59-4	Triphenylene	16.99	1200	DNJ
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	12000	DJ

[2] EPA-designated Registry Number.

9/3/08

BREMERTON-012893

Report All Marked Report

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K46DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.08DL2

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G0889

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.4 Dilution Factor: 100.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	2300	U
108-95-2	Phenol	2300	U
111-44-4	Bis(2-chloroethyl)ether	2300	U
95-57-8	2-Chlorophenol	2300	U
95-48-7	2-Methylphenol	2300	U
108-60-1	2,2'-Oxybis(1-chloropropane)	2300	U
98-86-2	Acetophenone	2300	U
106-44-5	4-Methylphenol	2300	U
621-64-7	N-Nitroso-di-n-propylamine	2300	U
67-72-1	Hexachloroethane	2300	U
98-95-3	Nitrobenzene	2300	U
78-59-1	Isophorone	2300	U
88-75-5	2-Nitrophenol	2300	U
105-67-9	2,4-Dimethylphenol	2300	U
111-91-1	Bis(2-chloroethoxy)methane	2300	U
120-83-2	2,4-Dichlorophenol	2300	U
91-20-3	Naphthalene	17000	~~J~~ → Report
106-47-8	4-Chloroaniline	2300	U
87-68-3	Hexachlorobutadiene	2300	U
105-60-2	Caprolactam	2300	U
59-50-7	4-Chloro-3-methylphenol	2300	U
91-57-6	2-Methylnaphthalene	11000	~~J~~ → "
77-47-4	Hexachlorocyclopentadiene	5800	U
88-06-2	2,4,6-Trichlorophenol	2300	U
95-95-4	2,4,5-Trichlorophenol	2300	U
92-52-4	1,1'-Biphenyl	2300	U
91-58-7	2-Chloronaphthalene	2300	U
88-74-4	2-Nitroaniline	4700	U
131-11-3	Dimethylphthalate	2300	U
606-20-2	2,6-Dinitrotoluene	2300	U
208-96-8	Acenaphthylene	2000	DJ
99-09-2	3-Nitroaniline	4700	U
83-32-9	Acenaphthene	7400	D
51-28-5	2,4-Dinitrophenol	12000	U
100-02-7	4-Nitrophenol	4700	U
132-64-9	Dibenzofuran	2300	U
121-14-2	2,4-Dinitrotoluene	2300	U

SOM01.2 (6/2007)

9/3/08

01228

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K46DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.08DL2

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G0889

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.4 Dilution Factor: 100.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	2300	U
86-73-7	Fluorene	3700	D
7005-72-3	4-Chlorophenyl-phenylether	2300	U
100-01-6	4-Nitroaniline	4700	U
534-52-1	4,6-Dinitro-2-methylphenol	4700	U
86-30-6	N-Nitrosodiphenylamine 1	2300	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2300	U
101-55-3	4-Bromophenyl-phenylether	2300	U
118-74-1	Hexachlorobenzene	2300	U
1912-24-9	Atrazine	2300	U
87-86-5	Pentachlorophenol	2300	U
85-01-8	Phenanthrene	13000	E J → Repeat
120-12-7	Anthracene	3800	D
86-74-8	Carbazole	2300	U
84-74-2	Di-n-butylphthalate	2300	U
206-44-0	Fluoranthene	5600	D
129-00-0	Pyrene	8500	D
85-68-7	Butylbenzylphthalate	2300	U
91-94-1	3,3'-Dichlorobenzidine	2300	U
56-55-3	Benzo(a)anthracene	2400	D
218-01-9	Chrysene	2400	D
117-81-7	Bis(2-ethylhexyl)phthalate	2300	U
117-84-0	Di-n-octylphthalate	2300	U
205-99-2	Benzo(b)fluoranthene	1300	DJ
207-08-9	Benzo(k)fluoranthene	1600	DJ
50-32-8	Benzo(a)pyrene	3900	D
193-39-5	Indeno(1,2,3-cd)pyrene	2500	D
53-70-3	Dibenzo(a,h)anthracene	2300	U
191-24-2	Benzo(g,h,i)perylene	2800	D
58-90-2	2,3,4,6-Tetrachlorophenol	2300	U
92-87-5	Benzidine	2300	U
95-50-1	1,2-Dichlorobenzene	2300	U
106-46-7	1,4-Dichlorobenzene	2300	U
541-73-1	1,3-Dichlorobenzene	2300	U
62-75-9	N-Nitrosodimethylamine	2300	U
95-63-6	1,2,4-Trimethylbenzene	2300	U
108-67-8	1,3,5-Trimethylbenzene	2300	U

1 Cannot be separated from Diphenylamine

9/3/08

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K46DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.08DL2

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G0889

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.4 Dilution Factor: 100.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	8.84	6100	DJ
02		Unknown-02	9.69	12000	DJ
03	000091-57-6	Naphthalene, 2-methyl-	10.43	9900	DNJ
04	002131-42-2	Naphthalene, 1,4,6-trimethyl-	12.79	7400	DNJ
05		Unknown-03	12.91	7000	DJ
06		Unknown-04	13.07	6100	DJ
07		Unknown-05	13.28	8000	DJ
08	1000130-75-8	Z-2-Tridecen-1-ol	13.45	8000	DNJ
09		Unknown-06	14.57	6900	DJ
10		Unknown-07	14.73	9300	DJ
11	001961-97-3	1H-Indene, 3-phenyl-	14.98	6000	DNJ
12		Unknown-08	15.11	6700	DJ
13		Unknown-09	15.18	6600	DJ
14	002381-21-7	Pyrene, 1-methyl-	16.33	6200	DNJ
15		Unknown-10	17.01	10000	DJ
16		Unknown-11	18.66	10000	DJ
17		Unknown-12	22.15	9000	DJ
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	25000	DJ

[2] EPA-designated Registry Number.

9/3/08

BREMERTON-012896

Do NOT REPORT

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K46RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.08RE

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G0890

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	23	U
108-95-2	Phenol	23	U
111-44-4	Bis(2-chloroethyl)ether	23	U
95-57-8	2-Chlorophenol	23	U
95-48-7	2-Methylphenol	23	U
108-60-1	2,2'-Oxybis(1-chloropropane)	23	U
98-86-2	Acetophenone	23	U
106-44-5	4-Methylphenol	23	U
621-64-7	N-Nitroso-di-n-propylamine	23	U
67-72-1	Hexachloroethane	23	U
98-95-3	Nitrobenzene	23	U
78-59-1	Isophorone	23	U
88-75-5	2-Nitrophenol	23	U
105-67-9	2,4-Dimethylphenol	23	U
111-91-1	Bis(2-chloroethoxy)methane	23	U
120-83-2	2,4-Dichlorophenol	23	U
91-20-3	Naphthalene	5700	E
106-47-8	4-Chloroaniline	23	U
87-68-3	Hexachlorobutadiene	23	U
105-60-2	Caprolactam	23	U
59-50-7	4-Chloro-3-methylphenol	23	U
91-57-6	2-Methylnaphthalene	6400	E
77-47-4	Hexachlorocyclopentadiene	58	U
88-06-2	2,4,6-Trichlorophenol	23	U
95-95-4	2,4,5-Trichlorophenol	23	U
92-52-4	1,1'-Biphenyl	320	
91-58-7	2-Chloronaphthalene	23	U
88-74-4	2-Nitroaniline	47	U
131-11-3	Dimethylphthalate	23	U
606-20-2	2,6-Dinitrotoluene	23	U
208-96-8	Acenaphthylene	850	E
99-09-2	3-Nitroaniline	47	U
83-32-9	Acenaphthene	2400	E
51-28-5	2,4-Dinitrophenol	120	U
100-02-7	4-Nitrophenol	47	U
132-64-9	Dibenzofuran	330	
121-14-2	2,4-Dinitrotoluene	23	U

9/3/08

01284

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K46RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.08RE

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G0890

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	23	U
86-73-7	Fluorene	1900	E
7005-72-3	4-Chlorophenyl-phenylether	23	U
100-01-6	4-Nitroaniline	47	U
534-52-1	4,6-Dinitro-2-methylphenol	47	U
86-30-6	N-Nitrosodiphenylamine 1	23	U
95-94-3	1,2,4,5-Tetrachlorobenzene	23	U
101-55-3	4-Bromophenyl-phenylether	23	U
118-74-1	Hexachlorobenzene	23	U
1912-24-9	Atrazine	23	U
87-86-5	Pentachlorophenol	23	U
85-01-8	Phenanthrene	1300	E
120-12-7	Anthracene	720	E
86-74-8	Carbazole	23	U
84-74-2	Di-n-butylphthalate	23	U
206-44-0	Fluoranthene	960	E
129-00-0	Pyrene	870	E
85-68-7	Butylbenzylphthalate	23	U
91-94-1	3,3'-Dichlorobenzidine	23	U
56-55-3	Benzo(a)anthracene	620	E
218-01-9	Chrysene	540	E
117-81-7	Bis(2-ethylhexyl)phthalate	23	U
117-84-0	Di-n-octylphthalate	23	U
205-99-2	Benzo(b)fluoranthene	1500	E
207-08-9	Benzo(k)fluoranthene	970	E
50-32-8	Benzo(a)pyrene	1400	E
193-39-5	Indeno(1,2,3-cd)pyrene	840	E
53-70-3	Dibenzo(a,h)anthracene	270	
191-24-2	Benzo(g,h,i)perylene	900	E
58-90-2	2,3,4,6-Tetrachlorophenol	23	U
92-87-5	Benzidine	23	U
95-50-1	1,2-Dichlorobenzene	23	U
106-46-7	1,4-Dichlorobenzene	23	U
541-73-1	1,3-Dichlorobenzene	23	U
62-75-9	N-Nitrosodimethylamine	23	U
95-63-6	1,2,4-Trimethylbenzene	41	
108-67-8	1,3,5-Trimethylbenzene	140	

1 Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012898

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K46RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.08RE

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G0890

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.4 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	5.93	190	J
02	000766-47-2	Benzene,1-ethynyl-2-methyl-	6.31	420	NJ
03	000493-02-7	Naphthalene, decahydro-, tran	6.46	250	NJ
04		Unknown-02	6.84	200	J
05		Unknown-03	6.89	180	J
06		Unknown-04	7.10	680	J
07		Unknown-05	9.28	190	J
08		Unknown-06	10.01	180	J
09		Unknown-07	10.11	210	J
10		Unknown-08	10.29	240	J
11		Unknown-09	10.36	250	J
12	000090-12-0	Naphthalene, 1-methyl-	10.47	870	NJ
13	002131-42-2	Naphthalene, 1,4,6-trimethyl-	12.79	220	NJ
14	002245-38-7	Naphthalene, 1,6,7-trimethyl-	12.98	230	NJ
15	000829-26-5	Naphthalene, 2,3,6-trimethyl-	13.11	240	NJ
16		Unknown-10	16.13	200	J
17		Unknown-11	18.26	240	J
18		Unknown-12	18.31	220	J
19		Unknown-13	18.37	320	J
20		Unknown-14	18.43	230	J
21	000481-21-0	Cholestane	18.49	220	NJ
22	000192-97-2	Benzo[e]pyrene	18.72	670	NJ
23		Unknown-15	18.84	330	J
24	000050-32-8	Benzo[a]pyrene	19.09	890	NJ
25		Unknown-16	19.27	280	J
26		Unknown-17	19.44	240	J
27		Unknown-18	19.49	240	J
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1200	J

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

9/3/08

01256

Do NOT REPORT

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K46

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.08

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G0973

Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2008

GPC Cleanup: (Y/N) Y pH: 5.4 Dilution Factor: 1000.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	21000	E
91-57-6	2-Methylnaphthalene	15000	E
208-96-8	Acenaphthylene	1800	J
83-32-9	Acenaphthene	10000	
86-73-7	Fluorene	6200	
87-86-5	Pentachlorophenol	2300	UJ
85-01-8	Phenanthrene	17000	E
120-12-7	Anthracene	9300	J
206-44-0	Fluoranthene	8700	J
129-00-0	Pyrene	12000	E
56-55-3	Benzo(a)anthracene	3100	J
218-01-9	Chrysene	5500	
205-99-2	Benzo(b)fluoranthene	1500	
207-08-9	Benzo(k)fluoranthene	2700	
50-32-8	Benzo(a)pyrene	5400	
193-39-5	Indeno(1,2,3-cd)pyrene	1400	
53-70-3	Dibenzo(a,h)anthracene	1200	UJ
191-24-2	Benzo(g,h,i)perylene	1600	J

1 Cannot be separated from Diphenylamine

9/3/08

SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K48

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.01

Sample wt/vol: 5.000 (g/mL) G Lab File ID: B16322

Level: (TRACE/LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 18 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.2	U
74-87-3	Chloromethane	1.2	U
75-01-4	Vinyl chloride	1.2	U
74-83-9	Bromomethane	1.2	U
75-00-3	Chloroethane	1.2	U
75-69-4	Trichlorofluoromethane	1.2	U
75-35-4	1,1-Dichloroethene	1.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U
67-64-1	Acetone	6.1	U
75-15-0	Carbon disulfide	1.2	U
79-20-9	Methyl acetate	1.2	U
75-09-2	Methylene chloride	1.2 ~~0.57~~	~~JB~~ U
156-60-5	trans-1,2-Dichloroethene	1.2	U
1634-04-4	Methyl tert-butyl ether	1.2	U
75-34-3	1,1-Dichloroethane	1.2	U
156-59-2	cis-1,2-Dichloroethene	1.2	U
78-93-3	2-Butanone	6.1	U
74-97-5	Bromochloromethane	1.2	U
67-66-3	Chloroform	1.2	U
71-55-6	1,1,1-Trichloroethane	1.2	U
110-82-7	Cyclohexane	1.2	U
56-23-5	Carbon tetrachloride	1.2	U
71-43-2	Benzene	1.2	U
107-06-2	1,2-Dichloroethane	1.2	U
123-91-1	1,4-Dioxane	120	U
79-01-6	Trichloroethene	1.2	U
108-87-2	Methylcyclohexane	1.2	U
78-87-5	1,2-Dichloropropane	1.2	U
75-27-4	Bromodichloromethane	1.2	U
10061-01-5	cis-1,3-Dichloropropene	1.2	U
108-10-1	4-Methyl-2-pentanone	6.1	U
108-88-3	Toluene	1.2	U
10061-02-6	trans-1,3-Dichloropropene	1.2	U
79-00-5	1,1,2-Trichloroethane	1.2	U

5/28/08

BREMERTON-012901

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K48

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.01

Sample wt/vol: 5.000 (g/mL) G Lab File ID: B16322

Level: (TRACE/LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 18 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.2	U
591-78-6	2-Hexanone	6.1	UJ
124-48-1	Dibromochloromethane	1.2	U
106-93-4	1,2-Dibromoethane	1.2	U
108-90-7	Chlorobenzene	1.2	U
100-41-4	Ethylbenzene	1.2	U
95-47-6	o-Xylene	1.2	U
179601-23-1	m,p-Xylene	1.2	U
100-42-5	Styrene	1.2	U
75-25-2	Bromoform	1.2	U
98-82-8	Isopropylbenzene	1.2	U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	U
541-73-1	1,3-Dichlorobenzene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.2	U
120-82-1	1,2,4-Trichlorobenzene	0.14	JB
87-61-6	1,2,3-Trichlorobenzene	0.13	JB
87-68-3	Hexachlorobutadiene	1.2	U
67-72-1	Hexachloroethane	2.4	U
91-20-3	Naphthalene	~~1.1~~ 1.2	~~JB~~ U
630-20-6	1,1,1,2-Tetrachloroethane	1.2	U
96-18-4	1,2,3-Trichloropropane	1.2	U

5/23/08

BREMERTON-012902

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K48

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.01

Sample wt/vol: 5.000 (g/mL) G Lab File ID: B16322

Level: (TRACE or LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 18 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.61	3.2	JN
02		Unknown-02	11.16	7.5	JN
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
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18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/28/08

Repeat All Except PAHs

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K48

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.01

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0820

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) Y pH: 4.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	24	U
108-95-2	Phenol	24	U
111-44-4	Bis(2-chloroethyl)ether	24	U
95-57-8	2-Chlorophenol	24	U
95-48-7	2-Methylphenol	24	U
108-60-1	2,2'-Oxybis(1-chloropropane)	24	U
98-86-2	Acetophenone	24	U
106-44-5	4-Methylphenol	24	U
621-64-7	N-Nitroso-di-n-propylamine	24	U
67-72-1	Hexachloroethane	24	U
98-95-3	Nitrobenzene	24	U
78-59-1	Isophorone	24	U
88-75-5	2-Nitrophenol	24	U
105-67-9	2,4-Dimethylphenol	24	U
111-91-1	Bis(2-chloroethoxy)methane	24	U
120-83-2	2,4-Dichlorophenol	24	U
91-20-3	Naphthalene	13	J Q
106-47-8	4-Chloroaniline	24	U
87-68-3	Hexachlorobutadiene	24	U
105-60-2	Caprolactam	24	U
59-50-7	4-Chloro-3-methylphenol	24	U
91-57-6	2-Methylnaphthalene	24	U
77-47-4	Hexachlorocyclopentadiene	61	U J
88-06-2	2,4,6-Trichlorophenol	24	U
95-95-4	2,4,5-Trichlorophenol	24	U
92-52-4	1,1'-Biphenyl	24	U
91-58-7	2-Chloronaphthalene	24	U
88-74-4	2-Nitroaniline	49	U
131-11-3	Dimethylphthalate	24	U
606-20-2	2,6-Dinitrotoluene	24	U
208-96-8	Acenaphthylene	24	U
99-09-2	3-Nitroaniline	49	U
83-32-9	Acenaphthene	24	U
51-28-5	2,4-Dinitrophenol	120	U J
100-02-7	4-Nitrophenol	49	U
132-64-9	Dibenzofuran	24	U
121-14-2	2,4-Dinitrotoluene	24	U

9/3/08

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K48

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.01

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0820

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) Y pH: 4.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	24	U
86-73-7	Fluorene	24	U
7005-72-3	4-Chlorophenyl-phenylether	24	U
100-01-6	4-Nitroaniline	49	U
534-52-1	4,6-Dinitro-2-methylphenol	49	U
86-30-6	N-Nitrosodiphenylamine 1	24	U
95-94-3	1,2,4,5-Tetrachlorobenzene	24	U
101-55-3	4-Bromophenyl-phenylether	24	U
118-74-1	Hexachlorobenzene	24	U
1912-24-9	Atrazine	24	U
87-86-5	Pentachlorophenol	24	UJ
85-01-8	Phenanthrene	24	U
120-12-7	Anthracene	24	U
86-74-8	Carbazole	24	U
84-74-2	Di-n-butylphthalate	24	U
206-44-0	Fluoranthene	24	U
129-00-0	Pyrene	24	U
85-68-7	Butylbenzylphthalate	24	U
91-94-1	3,3'-Dichlorobenzidine	24	U
56-55-3	Benzo(a)anthracene	24	U
218-01-9	Chrysene	24	U
117-81-7	Bis(2-ethylhexyl)phthalate	240	
117-84-0	Di-n-octylphthalate	24	U
205-99-2	Benzo(b)fluoranthene	24	U
207-08-9	Benzo(k)fluoranthene	24	U
50-32-8	Benzo(a)pyrene	24	U
193-39-5	Indeno(1,2,3-cd)pyrene	24	U
53-70-3	Dibenzo(a,h)anthracene	24	U
191-24-2	Benzo(g,h,i)perylene	24	U
58-90-2	2,3,4,6-Tetrachlorophenol	24	U
92-87-5	Benzidine	24	U
95-50-1	1,2-Dichlorobenzene	24	U
106-46-7	1,4-Dichlorobenzene	24	U
541-73-1	1,3-Dichlorobenzene	24	U
62-75-9	N-Nitrosodimethylamine	24	U
95-63-6	1,2,4-Trimethylbenzene	24	U
108-67-8	1,3,5-Trimethylbenzene	24	U

1 Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012905

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K48

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.01

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0820

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) Y pH: 4.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.31	74	JN
02		Unknown-02	2.76	79	J
03		Unknown-03	3.09	170	J
04		Unknown-04	4.17	180	J
05		Unknown-05	4.41	100	J
06		Unknown-06	4.67	96	J
07		Unknown-07	4.91	100	J
08		Unknown-08	8.10	120	J
09	010482-56-1	3-Cyclohexene-1-methanol, .al	8.60	57	NJ
10		Unknown-09	10.16	190	JN
11	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.27	370	NJ
12	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.58	110	NJ
13	013798-23-7	Sulfur	12.62	59	NJ
14		Unknown-10	12.71	140	JN
15					
16					
17					
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22					
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25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/3/08 01353

BREMERTON-012906

Report All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K48

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.01

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0914

Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/14/2008

GPC Cleanup: (Y/N) Y pH: 4.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	11	
91-57-6	2-Methylnaphthalene	5.3	
208-96-8	Acenaphthylene	1.1	JQ
83-32-9	Acenaphthene	1.2	JQ
86-73-7	Fluorene	1.2	JQ
87-86-5	Pentachlorophenol	3.6	
85-01-8	Phenanthrene	5.3	
120-12-7	Anthracene	1.4	
206-44-0	Fluoranthene	3.6	
129-00-0	Pyrene	4.8	
56-55-3	Benzo(a)anthracene	2.2	
218-01-9	Chrysene	3.0	
205-99-2	Benzo(b)fluoranthene	1.4	J
207-08-9	Benzo(k)fluoranthene	1.6	J
50-32-8	Benzo(a)pyrene	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	2.8	
53-70-3	Dibenzo(a,h)anthracene	2.6	
191-24-2	Benzo(g,h,i)perylene	2.9	

[1] Cannot be separated from Diphenylamine

9/3/08
B2006

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K49

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.09

Sample wt/vol: 4.200 (g/mL) G Lab File ID: B16325

Level: (TRACE/LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 9.0 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.3	U
74-87-3	Chloromethane	1.3	U
75-01-4	Vinyl chloride	1.3	U
74-83-9	Bromomethane	1.3	U
75-00-3	Chloroethane	1.3	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	1.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	U
67-64-1	Acetone	9.7	
75-15-0	Carbon disulfide	1.3	U
79-20-9	Methyl acetate	1.3	U
75-09-2	Methylene chloride	1.3 ~~0.50~~	~~JB~~ U
156-60-5	trans-1,2-Dichloroethene	1.3	U
1634-04-4	Methyl tert-butyl ether	1.3	U
75-34-3	1,1-Dichloroethane	1.3	U
156-59-2	cis-1,2-Dichloroethene	1.3	U
78-93-3	2-Butanone	6.5	U
74-97-5	Bromochloromethane	1.3	U
67-66-3	Chloroform	1.3	U
71-55-6	1,1,1-Trichloroethane	1.3	U
110-82-7	Cyclohexane	1.3	U
56-23-5	Carbon tetrachloride	1.3	U
71-43-2	Benzene	1.3	U
107-06-2	1,2-Dichloroethane	1.3	U
123-91-1	1,4-Dioxane	130	U
79-01-6	Trichloroethene	1.3	U
108-87-2	Methylcyclohexane	1.3	U
78-87-5	1,2-Dichloropropane	1.3	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	1.3	U
108-10-1	4-Methyl-2-pentanone	6.5	U
108-88-3	Toluene	0.47	J Q
10061-02-6	trans-1,3-Dichloropropene	1.3	U
79-00-5	1,1,2-Trichloroethane	1.3	U

BREMERTON-012908

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K49

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.09

Sample wt/vol: 4.200 (g/mL) G Lab File ID: B16325

Level: (TRACE/LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 9.0 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.3	U
591-78-6	2-Hexanone	6.5	UJ
124-48-1	Dibromochloromethane	1.3	U
106-93-4	1,2-Dibromoethane	1.3	U
108-90-7	Chlorobenzene	1.3	U
100-41-4	Ethylbenzene	1.3	U
95-47-6	o-Xylene	1.3	U
179601-23-1	m,p-Xylene	1.3	U
100-42-5	Styrene	1.3	U
75-25-2	Bromoform	1.3	U
98-82-8	Isopropylbenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	U
541-73-1	1,3-Dichlorobenzene	1.3	U
106-46-7	1,4-Dichlorobenzene	1.3	U
95-50-1	1,2-Dichlorobenzene	1.3	U
96-12-8	1,2-Dibromo-3-chloropropane	1.3	U
120-82-1	1,2,4-Trichlorobenzene	6.5	U
87-61-6	1,2,3-Trichlorobenzene	6.5	U
87-68-3	Hexachlorobutadiene	1.3	U
67-72-1	Hexachloroethane	2.6	U
91-20-3	Naphthalene	1.3 ~~0.58~~	~~JB~~ U
630-20-6	1,1,1,2-Tetrachloroethane	1.3	U
96-18-4	1,2,3-Trichloropropane	1.3	U

5/23/08

BREMERTON-012909

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K49

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.09

Sample wt/vol: 4.200 (g/mL) G Lab File ID: B16325

Level: (TRACE or LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 9.0 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.58	3.9	JN
02	000541-05-9	Cyclotrisiloxane, hexamethyl-	11.10	16	NJ
03		Unknown-02	11.16	4.9	JN
04					
05					
06					
07					
08					
09					
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25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/28/08

Report All Except PAHs

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K49

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.09

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0825

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 4.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	22	U
108-95-2	Phenol	22	U
111-44-4	Bis(2-chloroethyl)ether	22	U
95-57-8	2-Chlorophenol	22	U
95-48-7	2-Methylphenol	22	U
108-60-1	2,2'-Oxybis(1-chloropropane)	22	U
98-86-2	Acetophenone	22	U
106-44-5	4-Methylphenol	22	U
621-64-7	N-Nitroso-di-n-propylamine	22	U
67-72-1	Hexachloroethane	22	U
98-95-3	Nitrobenzene	22	U
78-59-1	Isophorone	22	U
88-75-5	2-Nitrophenol	22	U
105-67-9	2,4-Dimethylphenol	22	U
111-91-1	Bis(2-chloroethoxy)methane	22	U
120-83-2	2,4-Dichlorophenol	22	U
91-20-3	Naphthalene	22	U
106-47-8	4-Chloroaniline	22	U
87-68-3	Hexachlorobutadiene	22	U
105-60-2	Caprolactam	22	U
59-50-7	4-Chloro-3-methylphenol	22	U
91-57-6	2-Methylnaphthalene	22	U
77-47-4	Hexachlorocyclopentadiene	55	UJ
88-06-2	2,4,6-Trichlorophenol	22	U
95-95-4	2,4,5-Trichlorophenol	22	U
92-52-4	1,1'-Biphenyl	22	U
91-58-7	2-Chloronaphthalene	22	U
88-74-4	2-Nitroaniline	44	U
131-11-3	Dimethylphthalate	22	U
606-20-2	2,6-Dinitrotoluene	22	U
208-96-8	Acenaphthylene	22	U
99-09-2	3-Nitroaniline	44	U
83-32-9	Acenaphthene	22	U
51-28-5	2,4-Dinitrophenol	110	UJ
100-02-7	4-Nitrophenol	44	U
132-64-9	Dibenzofuran	22	U
121-14-2	2,4-Dinitrotoluene	22	U

9/3/08

BREMERTON-012911

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K49

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.09

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0825

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 4.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	22	U
86-73-7	Fluorene	22	U
7005-72-3	4-Chlorophenyl-phenylether	22	U
100-01-6	4-Nitroaniline	44	U
534-52-1	4,6-Dinitro-2-methylphenol	44	U
86-30-6	N-Nitrosodiphenylamine 1	22	U
95-94-3	1,2,4,5-Tetrachlorobenzene	22	U
101-55-3	4-Bromophenyl-phenylether	22	U
118-74-1	Hexachlorobenzene	22	U
1912-24-9	Atrazine	22	U
87-86-5	Pentachlorophenol	22	UJ
85-01-8	Phenanthrene	22	U
120-12-7	Anthracene	22	U
86-74-8	Carbazole	22	U
84-74-2	Di-n-butylphthalate	22	U
206-44-0	Fluoranthene	22	U
129-00-0	Pyrene	22	U
85-68-7	Butylbenzylphthalate	22	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	22	U
218-01-9	Chrysene	22	U
117-81-7	Bis(2-ethylhexyl)phthalate	82	
117-84-0	Di-n-octylphthalate	22	U
205-99-2	Benzo(b)fluoranthene	22	U
207-08-9	Benzo(k)fluoranthene	22	U
50-32-8	Benzo(a)pyrene	22	U
193-39-5	Indeno(1,2,3-cd)pyrene	22	U
53-70-3	Dibenzo(a,h)anthracene	22	U
191-24-2	Benzo(g,h,i)perylene	22	U
58-90-2	2,3,4,6-Tetrachlorophenol	22	U
92-87-5	Benzidine	22	U
95-50-1	1,2-Dichlorobenzene	22	U
106-46-7	1,4-Dichlorobenzene	22	U
541-73-1	1,3-Dichlorobenzene	22	U
62-75-9	N-Nitrosodimethylamine	22	U
95-63-6	1,2,4-Trimethylbenzene	22	U
108-67-8	1,3,5-Trimethylbenzene	22	U

1 Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012912

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K49

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.09

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0825

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 4.8 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.28	65	JN
02		Unknown-02	2.58	54	J
03		Unknown-03	3.09	160	J
04		Unknown-04	4.17	88	J
05		Unknown-05	4.21	48	J
06		Unknown-06	4.40	62	J
07		Unknown-07	4.67	65	J
08		Unknown-08	4.91	85	J
09		Unknown-09	8.08	70	J
10	1000157-89-9	p-menth-1-en-8-ol	8.60	66	NJ
11		Unknown-10	10.04	84	JN
12	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.26	240	NJ
13		Unknown-11	10.57	69	JN
14	000123-95-5	Octadecanoic acid, butyl este	16.63	70	NJ
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/3/08

BREMERTON-012913

Report All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K49

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.09

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0919

Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/14/2008

GPC Cleanup: (Y/N) Y pH: 4.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.0	J Q
91-57-6	2-Methylnaphthalene	1.1	U
208-96-8	Acenaphthylene	1.1	U
83-32-9	Acenaphthene	1.1	U
86-73-7	Fluorene	1.1	U
87-86-5	Pentachlorophenol	2.2	U
85-01-8	Phenanthrene	0.61	J Q
120-12-7	Anthracene	1.1	U
206-44-0	Fluoranthene	1.1	U
129-00-0	Pyrene	1.1	U
56-55-3	Benzo(a)anthracene	1.1	U
218-01-9	Chrysene	1.1	U
205-99-2	Benzo(b)fluoranthene	1.1	U J
207-08-9	Benzo(k)fluoranthene	1.1	U J
50-32-8	Benzo(a)pyrene	0.65	J Q
193-39-5	Indeno(1,2,3-cd)pyrene	1.3	
53-70-3	Dibenzo(a,h)anthracene	1.1	
191-24-2	Benzo(g,h,i)perylene	1.3	

1 Cannot be separated from Diphenylamine

9/3/08 02823

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K54

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.02

Sample wt/vol: 3.900 (g/mL) G Lab File ID: B16340

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 39 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2.1	U
74-87-3	Chloromethane	2.1	U
75-01-4	Vinyl chloride	2.1	U
74-83-9	Bromomethane	2.1	U
75-00-3	Chloroethane	2.1	U
75-69-4	Trichlorofluoromethane	1.9	J Q
75-35-4	1,1-Dichloroethene	2.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.1	U
67-64-1	Acetone	55	
75-15-0	Carbon disulfide	2.1	U
79-20-9	Methyl acetate	2.1	U
75-09-2	Methylene chloride	2.1	~~JB~~ U
156-60-5	trans-1,2-Dichloroethene	2.1	U
1634-04-4	Methyl tert-butyl ether	2.1	U
75-34-3	1,1-Dichloroethane	2.1	U
156-59-2	cis-1,2-Dichloroethene	2.1	U
78-93-3	2-Butanone	11	U
74-97-5	Bromochloromethane	2.1	U
67-66-3	Chloroform	2.1	U
71-55-6	1,1,1-Trichloroethane	2.1	U
110-82-7	Cyclohexane	2.1	U
56-23-5	Carbon tetrachloride	2.1	U
71-43-2	Benzene	2.2	
107-06-2	1,2-Dichloroethane	2.1	U
123-91-1	1,4-Dioxane	210	U
79-01-6	Trichloroethene	2.1	U
108-87-2	Methylcyclohexane	2.1	U
78-87-5	1,2-Dichloropropane	2.1	U
75-27-4	Bromodichloromethane	2.1	U
10061-01-5	cis-1,3-Dichloropropene	2.1	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	0.84	J Q
10061-02-6	trans-1,3-Dichloropropene	2.1	U
79-00-5	1,1,2-Trichloroethane	2.1	U

5/25/08

BREMERTON-012915

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K54

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.02

Sample wt/vol: 3.900 (g/mL) G Lab File ID: B16340

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 39 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	0.59	J
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	2.1	U
106-93-4	1,2-Dibromoethane	2.1	U
108-90-7	Chlorobenzene	2.1	U
100-41-4	Ethylbenzene	2.1	U
95-47-6	o-Xylene	2.1	U
179601-23-1	m,p-Xylene	2.1	U
100-42-5	Styrene	2.1	U
75-25-2	Bromoform	2.1	U
98-82-8	Isopropylbenzene	2.1	U
79-34-5	1,1,2,2-Tetrachloroethane	2.1	U
541-73-1	1,3-Dichlorobenzene	2.1	U
106-46-7	1,4-Dichlorobenzene	2.1	U
95-50-1	1,2-Dichlorobenzene	2.1	U
96-12-8	1,2-Dibromo-3-chloropropane	2.1	U
120-82-1	1,2,4-Trichlorobenzene	0.23	J
87-61-6	1,2,3-Trichlorobenzene	0.14	J
87-68-3	Hexachlorobutadiene	2.1	U
67-72-1	Hexachloroethane	4.2	U
91-20-3	Naphthalene	1.6	J
630-20-6	1,1,1,2-Tetrachloroethane	2.1	U
96-18-4	1,2,3-Trichloropropane	2.1	U

5/28/08

BREMERTON-012916

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K54

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.02

Sample wt/vol: 3.900 (g/mL) G Lab File ID: B16340

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 39 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	6.10	6.1	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A	11	JN

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/28/08

Report All Except PAHs

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K54

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.02

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0832

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 39 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	33	U
108-95-2	Phenol	33	U
111-44-4	Bis(2-chloroethyl)ether	33	U
95-57-8	2-Chlorophenol	33	U
95-48-7	2-Methylphenol	33	U
108-60-1	2,2'-Oxybis(1-chloropropane)	33	U
98-86-2	Acetophenone	33	U
106-44-5	4-Methylphenol	33	U
621-64-7	N-Nitroso-di-n-propylamine	33	U
67-72-1	Hexachloroethane	33	U
98-95-3	Nitrobenzene	33	U
78-59-1	Isophorone	33	U
88-75-5	2-Nitrophenol	33	U
105-67-9	2,4-Dimethylphenol	33	U
111-91-1	Bis(2-chloroethoxy)methane	33	U
120-83-2	2,4-Dichlorophenol	33	U
91-20-3	Naphthalene	33	U
106-47-8	4-Chloroaniline	33	U
87-68-3	Hexachlorobutadiene	33	U
105-60-2	Caprolactam	33	U
59-50-7	4-Chloro-3-methylphenol	33	U
91-57-6	2-Methylnaphthalene	33	U
77-47-4	Hexachlorocyclopentadiene	82	UJ
88-06-2	2,4,6-Trichlorophenol	33	U
95-95-4	2,4,5-Trichlorophenol	33	U
92-52-4	1,1'-Biphenyl	33	U
91-58-7	2-Chloronaphthalene	33	U
88-74-4	2-Nitroaniline	66	U
131-11-3	Dimethylphthalate	33	U
606-20-2	2,6-Dinitrotoluene	33	U
208-96-8	Acenaphthylene	33	U
99-09-2	3-Nitroaniline	66	U
83-32-9	Acenaphthene	33	U
51-28-5	2,4-Dinitrophenol	160	UJ
100-02-7	4-Nitrophenol	66	U
132-64-9	Dibenzofuran	33	U
121-14-2	2,4-Dinitrotoluene	33	U

9/3/08

1E - FORM I SV-2 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K54

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.02

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0832

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 39 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	33	U
86-73-7	Fluorene	33	U
7005-72-3	4-Chlorophenyl-phenylether	33	U
100-01-6	4-Nitroaniline	66	U
534-52-1	4,6-Dinitro-2-methylphenol	66	U
86-30-6	N-Nitrosodiphenylamine 1	33	U
95-94-3	1,2,4,5-Tetrachlorobenzene	33	U
101-55-3	4-Bromophenyl-phenylether	33	U
118-74-1	Hexachlorobenzene	33	U
1912-24-9	Atrazine	33	U
87-86-5	Pentachlorophenol	33	UJ
85-01-8	Phenanthrene	33	U
120-12-7	Anthracene	33	U
86-74-8	Carbazole	33	U
84-74-2	Di-n-butylphthalate	33	U
206-44-0	Fluoranthene	33	U
129-00-0	Pyrene	33	U
85-68-7	Butylbenzylphthalate	33	U
91-94-1	3,3'-Dichlorobenzidine	33	U
56-55-3	Benzo(a)anthracene	33	U
218-01-9	Chrysene	33	U
117-81-7	Bis(2-ethylhexyl)phthalate	160	
117-84-0	Di-n-octylphthalate	33	U
205-99-2	Benzo(b)fluoranthene	33	U
207-08-9	Benzo(k)fluoranthene	33	U
50-32-8	Benzo(a)pyrene	33	U
193-39-5	Indeno(1,2,3-cd)pyrene	33	U
53-70-3	Dibenzo(a,h)anthracene	33	U
191-24-2	Benzo(g,h,i)perylene	33	U
58-90-2	2,3,4,6-Tetrachlorophenol	33	U
92-87-5	Benzidine	33	U
95-50-1	1,2-Dichlorobenzene	33	U
106-46-7	1,4-Dichlorobenzene	33	U
541-73-1	1,3-Dichlorobenzene	33	U
62-75-9	N-Nitrosodimethylamine	33	U
95-63-6	1,2,4-Trimethylbenzene	33	U
108-67-8	1,3,5-Trimethylbenzene	33	U

1 Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012919

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K54

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.02

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0832

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 39 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.28	55	JN
02		Unknown-02	2.31	45	J
03		Unknown-03	2.35	41	J
04		Unknown-04	2.47	46	J
05		Unknown-05	2.58	50	J
06		Unknown-06	2.69	43	J
07		Unknown-07	3.09	200	J
08		Unknown-08	3.64	49	J
09		Unknown-09	4.17	100	J
10		Unknown-10	4.21	73	J
11		Unknown-11	4.41	100	J
12		Unknown-12	4.67	89	J
13		Unknown-13	4.91	100	J
14		Unknown-14	8.09	59	J
15		Unknown-15	8.60	100	J
16		Unknown-16	10.04	84	J
17	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.27	370	NJ
18		Unknown-17	10.58	110	JN
19		Unknown-18	10.92	45	J
20		Unknown-19	11.18	64	J
21		Unknown-20	12.68	42	J
22	283155-62-4	N1-Tetrahydrofuran-2-ylmethyl	15.58	57	NJ
23	000301-02-0	9-Octadecenamide, (Z)-	18.07	48	NJ
24	007683-64-9	Squalene	18.23	110	NJ
25		Unknown-21	18.68	59	JN
26	062016-79-9	Heptacosane, 1-chloro-	19.54	46	NJ
27		Unknown-22	19.75	51	JN
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	53	JN

[2] EPA-designated Registry Number.

9/3/08

91412

BREMERTON-012920

Report All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K54

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.02

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0926

Extraction: (Type) SONC

% Moisture: 39 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/14/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.6	U
91-57-6	2-Methylnaphthalene	1.6	U
208-96-8	Acenaphthylene	1.6	U
83-32-9	Acenaphthene	1.6	U
86-73-7	Fluorene	1.6	U
87-86-5	Pentachlorophenol	3.3	U
85-01-8	Phenanthrene	1.6	U
120-12-7	Anthracene	1.6	U
206-44-0	Fluoranthene	1.6	U
129-00-0	Pyrene	1.0	J Q
56-55-3	Benzo(a)anthracene	1.6	U
218-01-9	Chrysene	1.1	J Q
205-99-2	Benzo(b)fluoranthene	1.6	UJ
207-08-9	Benzo(k)fluoranthene	0.90	J Q
50-32-8	Benzo(a)pyrene	1.1	J Q
193-39-5	Indeno(1,2,3-cd)pyrene	1.9	
53-70-3	Dibenzo(a,h)anthracene	1.5	J Q
191-24-2	Benzo(g,h,i)perylene	2.2	

1 Cannot be separated from Diphenylamine

SOM01.2 (6/2007)

9/3/08

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K55

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.03

Sample wt/vol: 5.400 (g/mL) G Lab File ID: B16344

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 14 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.1	U
74-87-3	Chloromethane	1.1	U
75-01-4	Vinyl chloride	1.1	U
74-83-9	Bromomethane	1.1	U
75-00-3	Chloroethane	1.1	U
75-69-4	Trichlorofluoromethane	0.60	J Q
75-35-4	1,1-Dichloroethene	1.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U
67-64-1	Acetone	31	
75-15-0	Carbon disulfide	1.1	U
79-20-9	Methyl acetate	1.1	U
75-09-2	Methylene chloride	1.1 ~~0.95~~	~~JB~~ U
156-60-5	trans-1,2-Dichloroethene	1.1	U
1634-04-4	Methyl tert-butyl ether	1.1	U
75-34-3	1,1-Dichloroethane	1.1	U
156-59-2	cis-1,2-Dichloroethene	1.1	U
78-93-3	2-Butanone	5.4	U
74-97-5	Bromochloromethane	1.1	U
67-66-3	Chloroform	1.1	U
71-55-6	1,1,1-Trichloroethane	1.1	U
110-82-7	Cyclohexane	1.1	U
56-23-5	Carbon tetrachloride	1.1	U
71-43-2	Benzene	2.0	
107-06-2	1,2-Dichloroethane	1.1	U
123-91-1	1,4-Dioxane	110	U
79-01-6	Trichloroethene	1.1	U
108-87-2	Methylcyclohexane	1.1	U
78-87-5	1,2-Dichloropropane	1.1	U
75-27-4	Bromodichloromethane	1.1	U
10061-01-5	cis-1,3-Dichloropropene	1.1	U
108-10-1	4-Methyl-2-pentanone	5.4	U
108-88-3	Toluene	0.57	J Q
10061-02-6	trans-1,3-Dichloropropene	1.1	U
79-00-5	1,1,2-Trichloroethane	1.1	U

8/28/08

BREMERTON-012922

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K55

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.03

Sample wt/vol: 5.400 (g/mL) G Lab File ID: B16344

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 14 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.1	U
591-78-6	2-Hexanone	5.4	UJ
124-48-1	Dibromochloromethane	1.1	U
106-93-4	1,2-Dibromoethane	1.1	U
108-90-7	Chlorobenzene	1.1	U
100-41-4	Ethylbenzene	1.1	U
95-47-6	o-Xylene	1.1	U
179601-23-1	m,p-Xylene	1.1	U
100-42-5	Styrene	1.1	U
75-25-2	Bromoform	1.1	U
98-82-8	Isopropylbenzene	1.1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
541-73-1	1,3-Dichlorobenzene	1.1	U
106-46-7	1,4-Dichlorobenzene	1.1	U
95-50-1	1,2-Dichlorobenzene	1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	1.1	U
120-82-1	1,2,4-Trichlorobenzene	5.4	U
87-61-6	1,2,3-Trichlorobenzene	5.4	U
87-68-3	Hexachlorobutadiene	1.1	U
67-72-1	Hexachloroethane	2.2	U
91-20-3	Naphthalene	0.62	JQ
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U

8/25/08

BREMERTON-012923

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K55

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.03

Sample wt/vol: 5.400 (g/mL) G Lab File ID: B16344

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 14 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.68	1800	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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18					
19					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

2/20/10

BREMERTON-012924

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K55

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.03

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0833

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	23	U
108-95-2	Phenol	23	U
111-44-4	Bis(2-chloroethyl)ether	23	U
95-57-8	2-Chlorophenol	23	U
95-48-7	2-Methylphenol	23	U
108-60-1	2,2'-Oxybis(1-chloropropane)	23	U
98-86-2	Acetophenone	23	U
106-44-5	4-Methylphenol	23	U
621-64-7	N-Nitroso-di-n-propylamine	23	U
67-72-1	Hexachloroethane	23	U
98-95-3	Nitrobenzene	23	U
78-59-1	Isophorone	23	U
88-75-5	2-Nitrophenol	23	U
105-67-9	2,4-Dimethylphenol	23	U
111-91-1	Bis(2-chloroethoxy)methane	23	U
120-83-2	2,4-Dichlorophenol	23	U
91-20-3	Naphthalene	23	U
106-47-8	4-Chloroaniline	23	U
87-68-3	Hexachlorobutadiene	23	U
105-60-2	Caprolactam	23	U
59-50-7	4-Chloro-3-methylphenol	23	U
91-57-6	2-Methylnaphthalene	23	U
77-47-4	Hexachlorocyclopentadiene	58	UJ
88-06-2	2,4,6-Trichlorophenol	23	U
95-95-4	2,4,5-Trichlorophenol	23	U
92-52-4	1,1'-Biphenyl	23	U
91-58-7	2-Chloronaphthalene	23	U
88-74-4	2-Nitroaniline	46	U
131-11-3	Dimethylphthalate	23	U
606-20-2	2,6-Dinitrotoluene	23	U
208-96-8	Acenaphthylene	23	U
99-09-2	3-Nitroaniline	46	U
83-32-9	Acenaphthene	23	U
51-28-5	2,4-Dinitrophenol	120	UJ
100-02-7	4-Nitrophenol	46	U
132-64-9	Dibenzofuran	23	U
121-14-2	2,4-Dinitrotoluene	23	U

9/3/08

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K55

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.03

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0833

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	23	U
86-73-7	Fluorene	23	U
7005-72-3	4-Chlorophenyl-phenylether	23	U
100-01-6	4-Nitroaniline	46	U
534-52-1	4,6-Dinitro-2-methylphenol	46	U
86-30-6	N-Nitrosodiphenylamine 1	23	U
95-94-3	1,2,4,5-Tetrachlorobenzene	23	U
101-55-3	4-Bromophenyl-phenylether	23	U
118-74-1	Hexachlorobenzene	23	U
1912-24-9	Atrazine	23	U
87-86-5	Pentachlorophenol	23	UJ
85-01-8	Phenanthrene	23	U
120-12-7	Anthracene	23	U
86-74-8	Carbazole	23	U
84-74-2	Di-n-butylphthalate	23	U
206-44-0	Fluoranthene	23	U
129-00-0	Pyrene	23	U
85-68-7	Butylbenzylphthalate	23	U
91-94-1	3,3'-Dichlorobenzidine	23	U
56-55-3	Benzo(a)anthracene	23	U
218-01-9	Chrysene	23	U
117-81-7	Bis(2-ethylhexyl)phthalate	96	
117-84-0	Di-n-octylphthalate	23	U
205-99-2	Benzo(b)fluoranthene	23	U
207-08-9	Benzo(k)fluoranthene	23	U
50-32-8	Benzo(a)pyrene	23	U
193-39-5	Indeno(1,2,3-cd)pyrene	23	U
53-70-3	Dibenzo(a,h)anthracene	23	U
191-24-2	Benzo(g,h,i)perylene	23	U
58-90-2	2,3,4,6-Tetrachlorophenol	23	U
92-87-5	Benzidine	23	U
95-50-1	1,2-Dichlorobenzene	23	U
106-46-7	1,4-Dichlorobenzene	23	U
541-73-1	1,3-Dichlorobenzene	23	U
62-75-9	N-Nitrosodimethylamine	23	U
95-63-6	1,2,4-Trimethylbenzene	23	U
108-67-8	1,3,5-Trimethylbenzene	23	U

1 Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012926

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: J8K55

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.03

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0833

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.28	75	JN
02		Unknown-02	2.58	56	J
03		Unknown-03	3.09	190	J
04		Unknown-04	3.65	57	J
05		Unknown-05	4.17	180	J
06		Unknown-06	4.40	74	J
07		Unknown-07	4.67	87	J
08		Unknown-08	4.91	100	J
09		Unknown-09	10.27	210	J
10		Unknown-10	18.24	63	J
11		Unknown-11	22.28	62	J
12	000515-13-9	Cyclohexane, 1-ethenyl-1-meth	22.78	83	NJ
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/3/08

3145

BREMERTON-012927

Report All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K55

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.03

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0927

Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/14/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.2	U
91-57-6	2-Methylnaphthalene	1.2	U
208-96-8	Acenaphthylene	1.2	U
83-32-9	Acenaphthene	1.2	U
86-73-7	Fluorene	1.2	U
87-86-5	Pentachlorophenol	2.3	U
85-01-8	Phenanthrene	1.2	U
120-12-7	Anthracene	1.2	U
206-44-0	Fluoranthene	1.2	U
129-00-0	Pyrene	1.2	U
56-55-3	Benzo(a)anthracene	1.2	U
218-01-9	Chrysene	1.2	U
205-99-2	Benzo(b)fluoranthene	1.2	UJ
207-08-9	Benzo(k)fluoranthene	1.2	UJ
50-32-8	Benzo(a)pyrene	1.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.3	
53-70-3	Dibenzo(a,h)anthracene	1.1	J
191-24-2	Benzo(g,h,i)perylene	1.7	

1 Cannot be separated from Diphenylamine

9/2/08

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K56

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.04

Sample wt/vol: 4.900 (g/mL) G Lab File ID: B16345

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 16 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.2	U
74-87-3	Chloromethane	1.2	U
75-01-4	Vinyl chloride	1.2	U
74-83-9	Bromomethane	1.2	U
75-00-3	Chloroethane	1.2	U
75-69-4	Trichlorofluoromethane	0.94	J Q
75-35-4	1,1-Dichloroethene	1.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U
67-64-1	Acetone	40	
75-15-0	Carbon disulfide	1.2	U
79-20-9	Methyl acetate	1.2	U
75-09-2	Methylene chloride	1.3	JU
156-60-5	trans-1,2-Dichloroethene	1.2	U
1634-04-4	Methyl tert-butyl ether	1.2	U
75-34-3	1,1-Dichloroethane	1.2	U
156-59-2	cis-1,2-Dichloroethene	1.2	U
78-93-3	2-Butanone	6.1	U
74-97-5	Bromochloromethane	1.2	U
67-66-3	Chloroform	1.2	U
71-55-6	1,1,1-Trichloroethane	1.2	U
110-82-7	Cyclohexane	1.2	U
56-23-5	Carbon tetrachloride	1.2	U
71-43-2	Benzene	1.2	J Q
107-06-2	1,2-Dichloroethane	1.2	U
123-91-1	1,4-Dioxane	120	U
79-01-6	Trichloroethene	1.2	U
108-87-2	Methylcyclohexane	1.2	U
78-87-5	1,2-Dichloropropane	1.2	U
75-27-4	Bromodichloromethane	1.2	U
10061-01-5	cis-1,3-Dichloropropene	1.2	U
108-10-1	4-Methyl-2-pentanone	6.1	U
108-88-3	Toluene	0.63	J Q
10061-02-6	trans-1,3-Dichloropropene	1.2	U
79-00-5	1,1,2-Trichloroethane	1.2	U

8/28/08

BREMERTON-012929

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K56

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.04

Sample wt/vol: 4.900 (g/mL) G Lab File ID: B16345

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 16 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.2	U
591-78-6	2-Hexanone	6.1	UJ
124-48-1	Dibromochloromethane	1.2	U
106-93-4	1,2-Dibromoethane	1.2	U
108-90-7	Chlorobenzene	1.2	U
100-41-4	Ethylbenzene	1.2	U
95-47-6	o-Xylene	1.2	U
179601-23-1	m,p-Xylene	1.2	U
100-42-5	Styrene	1.2	U
75-25-2	Bromoform	1.2	U
98-82-8	Isopropylbenzene	1.2	U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	U
541-73-1	1,3-Dichlorobenzene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.2	U
120-82-1	1,2,4-Trichlorobenzene	6.1	U
87-61-6	1,2,3-Trichlorobenzene	6.1	U
87-68-3	Hexachlorobutadiene	1.2	U
67-72-1	Hexachloroethane	2.4	U
91-20-3	Naphthalene	0.58	JBQ
630-20-6	1,1,1,2-Tetrachloroethane	1.2	U
96-18-4	1,2,3-Trichloropropane	1.2	U

8/29/08

BREMERTON-012930

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K56

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.04

Sample wt/vol: 4.900 (g/mL) G Lab File ID: B16345

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 16 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.28	26	JN
02		Unknown-02	2.38	18	JN
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
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22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/28/08

Report All Except PAHs

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K56

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.04

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G0834

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	24	U
108-95-2	Phenol	24	U
111-44-4	Bis(2-chloroethyl)ether	24	U
95-57-8	2-Chlorophenol	24	U
95-48-7	2-Methylphenol	24	U
108-60-1	2,2'-Oxybis(1-chloropropane)	24	U
98-86-2	Acetophenone	24	U
106-44-5	4-Methylphenol	24	U
621-64-7	N-Nitroso-di-n-propylamine	24	U
67-72-1	Hexachloroethane	24	U
98-95-3	Nitrobenzene	24	U
78-59-1	Isophorone	24	U
88-75-5	2-Nitrophenol	24	U
105-67-9	2,4-Dimethylphenol	24	U
111-91-1	Bis(2-chloroethoxy)methane	24	U
120-83-2	2,4-Dichlorophenol	24	U
91-20-3	Naphthalene	24	U
106-47-8	4-Chloroaniline	24	U
87-68-3	Hexachlorobutadiene	24	U
105-60-2	Caprolactam	24	U
59-50-7	4-Chloro-3-methylphenol	24	U
91-57-6	2-Methylnaphthalene	24	U
77-47-4	Hexachlorocyclopentadiene	59	UJ
88-06-2	2,4,6-Trichlorophenol	24	U
95-95-4	2,4,5-Trichlorophenol	24	U
92-52-4	1,1'-Biphenyl	24	U
91-58-7	2-Chloronaphthalene	24	U
88-74-4	2-Nitroaniline	47	U
131-11-3	Dimethylphthalate	24	U
606-20-2	2,6-Dinitrotoluene	24	U
208-96-8	Acenaphthylene	24	U
99-09-2	3-Nitroaniline	47	U
83-32-9	Acenaphthene	24	U
51-28-5	2,4-Dinitrophenol	120	UJ
100-02-7	4-Nitrophenol	47	U
132-64-9	Dibenzofuran	24	U
121-14-2	2,4-Dinitrotoluene	24	U

9/3/08

BREMERTON-012932

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K56

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.04

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G0834

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	24	U
86-73-7	Fluorene	24	U
7005-72-3	4-Chlorophenyl-phenylether	24	U
100-01-6	4-Nitroaniline	47	U
534-52-1	4,6-Dinitro-2-methylphenol	47	U
86-30-6	N-Nitrosodiphenylamine 1	24	U
95-94-3	1,2,4,5-Tetrachlorobenzene	24	U
101-55-3	4-Bromophenyl-phenylether	24	U
118-74-1	Hexachlorobenzene	24	U
1912-24-9	Atrazine	24	U
87-86-5	Pentachlorophenol	24	UJ
85-01-8	Phenanthrene	24	U
120-12-7	Anthracene	24	U
86-74-8	Carbazole	24	U
84-74-2	Di-n-butylphthalate	24	U
206-44-0	Fluoranthene	24	U
129-00-0	Pyrene	24	U
85-68-7	Butylbenzylphthalate	24	U
91-94-1	3,3'-Dichlorobenzidine	24	U
56-55-3	Benzo(a)anthracene	24	U
218-01-9	Chrysene	24	U
117-81-7	Bis(2-ethylhexyl)phthalate	120	
117-84-0	Di-n-octylphthalate	24	U
205-99-2	Benzo(b)fluoranthene	24	U
207-08-9	Benzo(k)fluoranthene	24	U
50-32-8	Benzo(a)pyrene	24	U
193-39-5	Indeno(1,2,3-cd)pyrene	24	U
53-70-3	Dibenz(a,h)anthracene	24	U
191-24-2	Benzo(g,h,i)perylene	24	U
58-90-2	2,3,4,6-Tetrachlorophenol	24	U
92-67-5	Benzidine	24	U
95-50-1	1,2-Dichlorobenzene	24	U
106-46-7	1,4-Dichlorobenzene	24	U
541-73-1	1,3-Dichlorobenzene	24	U
62-75-9	N-Nitrosodimethylamine	24	U
95-63-6	1,2,4-Trimethylbenzene	24	U
108-67-8	1,3,5-Trimethylbenzene	24	U

1 Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012933

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K56

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.04

Sample wt/vol: 100.6 (g/mL) G Lab File ID: G0834

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.28	45	JN
02		Unknown-02	2.70	55	J
03		Unknown-03	3.09	170	J
04		Unknown-04	4.17	87	J
05		Unknown-05	4.21	58	J
06		Unknown-06	4.40	67	J
07		Unknown-07	4.67	81	J
08		Unknown-08	4.91	86	J
09		Unknown-09	8.10	73	J
10		Unknown-10	8.60	86	J
11		Unknown-11	10.09	100	J
12	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.27	340	NJ
13	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.58	100	NJ
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

9/3/08

BREMERTON-012934

Repeat All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K56

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.04

Sample wt/vol: 100.0 (g/mL) G Lab File ID: G0934

Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.0	J
91-57-6	2-Methylnaphthalene	3.1	J
208-96-8	Acenaphthylene	1.2	UJ
83-32-9	Acenaphthene	4.7	J
86-73-7	Fluorene	3.4	J
87-86-5	Pentachlorophenol	2.4	UJ
85-01-8	Phenanthrene	11	J
120-12-7	Anthracene	4.1	
206-44-0	Fluoranthene	5.3	
129-00-0	Pyrene	7.3	
56-55-3	Benzo(a)anthracene	2.2	
218-01-9	Chrysene	3.1	
205-99-2	Benzo(b)fluoranthene	1.2	UJ
207-08-9	Benzo(k)fluoranthene	1.6	J
50-32-8	Benzo(a)pyrene	2.7	
193-39-5	Indeno(1,2,3-cd)pyrene	3.0	
53-70-3	Dibenzo(a,h)anthracene	2.3	
191-24-2	Benzo(g,h,i)perylene	3.7	

[1] Cannot be separated from Diphenylamine

9/3/08 37435

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K57

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.05

Sample wt/vol: 4.600 (g/mL) G Lab File ID: B16346

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 17 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.3	U
74-87-3	Chloromethane	1.3	U
75-01-4	Vinyl chloride	1.3	U
74-83-9	Bromomethane	1.3	U
75-00-3	Chloroethane	1.3	U
75-69-4	Trichlorofluoromethane	1.8	
75-35-4	1,1-Dichloroethene	1.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	U
67-64-1	Acetone	6.5	U
75-15-0	Carbon disulfide	1.3	U
79-20-9	Methyl acetate	1.3	U
75-09-2	Methylene chloride	1.3 ~~1.0~~	~~JB~~ U
156-60-5	trans-1,2-Dichloroethene	1.3	U
1634-04-4	Methyl tert-butyl ether	1.3	U
75-34-3	1,1-Dichloroethane	1.3	U
156-59-2	cis-1,2-Dichloroethene	1.3	U
78-93-3	2-Butanone	6.5	U
74-97-5	Bromochloromethane	1.3	U
67-66-3	Chloroform	1.3	U
71-55-6	1,1,1-Trichloroethane	1.3	U
110-82-7	Cyclohexane	1.3	U
56-23-5	Carbon tetrachloride	1.3	U
71-43-2	Benzene	0.85	J Q
107-06-2	1,2-Dichloroethane	1.3	U
123-91-1	1,4-Dioxane	130	U
79-01-6	Trichloroethene	1.3	U
108-87-2	Methylcyclohexane	1.3	U
78-87-5	1,2-Dichloropropane	1.3	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	1.3	U
108-10-1	4-Methyl-2-pentanone	6.5	U
108-88-3	Toluene	1.2	J Q
10061-02-6	trans-1,3-Dichloropropene	1.3	U
79-00-5	1,1,2-Trichloroethane	1.3	U

5/28/08

BREMERTON-012936

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K57

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.05

Sample wt/vol: 4.600 (g/mL) G Lab File ID: B16346

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 17 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.3	U
591-78-6	2-Hexanone	6.5	UJ
124-48-1	Dibromochloromethane	1.3	U
106-93-4	1,2-Dibromoethane	1.3	U
108-90-7	Chlorobenzene	1.3	U
100-41-4	Ethylbenzene	1.3	U
95-47-6	o-Xylene	1.3	U
179601-23-1	m,p-Xylene	1.3	U
100-42-5	Styrene	1.3	U
75-25-2	Bromoform	1.3	U
98-82-8	Isopropylbenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	U
541-73-1	1,3-Dichlorobenzene	1.3	U
106-46-7	1,4-Dichlorobenzene	1.3	U
95-50-1	1,2-Dichlorobenzene	1.3	U
96-12-8	1,2-Dibromo-3-chloropropane	1.3	U
120-82-1	1,2,4-Trichlorobenzene	6.5	U
87-61-6	1,2,3-Trichlorobenzene	6.5	U
87-68-3	Hexachlorobutadiene	1.3	U
67-72-1	Hexachloroethane	2.6	U
91-20-3	Naphthalene	1.3	U
630-20-6	1,1,1,2-Tetrachloroethane	1.3	U
96-18-4	1,2,3-Trichloropropane	1.3	U

8/28/08

BREMERTON-012937

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K57

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.05

Sample wt/vol: 4.600 (g/mL) G Lab File ID: B16346

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 17 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.16	8.1	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A		

1 EPA-designated Registry Number.

SOM01.2 (6/2007)

8/28/08

Report All Except PAHs

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K57

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.05

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0840

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	24	U
108-95-2	Phenol	24	U
111-44-4	Bis(2-chloroethyl)ether	24	U
95-57-8	2-Chlorophenol	24	U
95-48-7	2-Methylphenol	24	U
108-60-1	2,2'-Oxybis(1-chloropropane)	24	U
98-86-2	Acetophenone	24	U
106-44-5	4-Methylphenol	24	U
621-64-7	N-Nitroso-di-n-propylamine	24	U
67-72-1	Hexachloroethane	24	U
98-95-3	Nitrobenzene	24	U
78-59-1	Isophorone	24	U
88-75-5	2-Nitrophenol	24	U
105-67-9	2,4-Dimethylphenol	24	U
111-91-1	Bis(2-chloroethoxy)methane	24	U
120-83-2	2,4-Dichlorophenol	24	U
91-20-3	Naphthalene	24	U
106-47-8	4-Chloroaniline	24	U
87-68-3	Hexachlorobutadiene	24	U
105-60-2	Caprolactam	24	U
59-50-7	4-Chloro-3-methylphenol	24	U
91-57-6	2-Methylnaphthalene	24	U
77-47-4	Hexachlorocyclopentadiene	60	UJ
88-06-2	2,4,6-Trichlorophenol	24	U
95-95-4	2,4,5-Trichlorophenol	24	U
92-52-4	1,1'-Biphenyl	24	U
91-58-7	2-Chloronaphthalene	24	U
88-74-4	2-Nitroaniline	48	U
131-11-3	Dimethylphthalate	24	U
606-20-2	2,6-Dinitrotoluene	24	U
208-96-8	Acenaphthylene	24	U
99-09-2	3-Nitroaniline	48	U
83-32-9	Acenaphthene	24	U
51-28-5	2,4-Dinitrophenol	120	UJ
100-02-7	4-Nitrophenol	48	U
132-64-9	Dibenzofuran	24	U
121-14-2	2,4-Dinitrotoluene	24	U

9/3/08

SOM01.2 (6/2007)

S1513

1E - FORM I SV-2 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K57

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.05

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0840

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	24	U
86-73-7	Fluorene	24	U
7005-72-3	4-Chlorophenyl-phenylether	24	U
100-01-6	4-Nitroaniline	48	U
534-52-1	4,6-Dinitro-2-methylphenol	48	U
86-30-6	N-Nitrosodiphenylamine 1	24	U
95-94-3	1,2,4,5-Tetrachlorobenzene	24	U
101-55-3	4-Bromophenyl-phenylether	24	U
118-74-1	Hexachlorobenzene	24	U
1912-24-9	Atrazine	24	U
87-86-5	Pentachlorophenol	24	U
85-01-8	Phenanthrene	24	U
120-12-7	Anthracene	24	U
86-74-8	Carbazole	24	U
84-74-2	Di-n-butylphthalate	24	U
206-44-0	Fluoranthene	24	U
129-00-0	Pyrene	24	U
85-68-7	Butylbenzylphthalate	24	U
91-94-1	3,3'-Dichlorobenzidine	24	U
56-55-3	Benzo(a)anthracene	24	U
218-01-9	Chrysene	24	U
117-81-7	Bis(2-ethylhexyl)phthalate	180	
117-84-0	Di-n-octylphthalate	24	U
205-99-2	Benzo(b)fluoranthene	24	U
207-08-9	Benzo(k)fluoranthene	24	U
50-32-8	Benzo(a)pyrene	24	U
193-39-5	Indeno(1,2,3-cd)pyrene	24	U
53-70-3	Dibenzo(a,h)anthracene	24	U
191-24-2	Benzo(g,h,i)perylene	24	U
58-90-2	2,3,4,6-Tetrachlorophenol	24	U
92-87-5	Benzidine	24	U
95-50-1	1,2-Dichlorobenzene	24	U
106-46-7	1,4-Dichlorobenzene	24	U
541-73-1	1,3-Dichlorobenzene	24	U
62-75-9	N-Nitrosodimethylamine	24	U
95-63-6	1,2,4-Trimethylbenzene	24	U
108-67-8	1,3,5-Trimethylbenzene	24	U

1 Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012940

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K57

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.05

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0840

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.27	79	J~~B~~N
02		Unknown-02	3.09	120	J
03		Unknown-03	8.10	79	J
04		Unknown-04	8.60	68	J
05		Unknown-05	10.10	59	J
06		Unknown-06	10.16	49	J
07	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.27	470	NJ
08		Unknown-07	10.58	150	JN
09		Unknown-08	20.76	44	JN
10					
11					
12					
13					
14					
15					
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25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

9/2/08 31515

Report All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K57

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.05

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0937

Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.2	U
91-57-6	2-Methylnaphthalene	1.2	U
208-96-8	Acenaphthylene	1.2	U
83-32-9	Acenaphthene	1.2	U
86-73-7	Fluorene	1.2	U
87-86-5	Pentachlorophenol	2.4	U
85-01-8	Phenanthrene	0.74	J Q
120-12-7	Anthracene	1.2	U
206-44-0	Fluoranthene	1.2	U
129-00-0	Pyrene	1.2	U
56-55-3	Benzo(a)anthracene	1.2	U
218-01-9	Chrysene	1.2	U
205-99-2	Benzo(b)fluoranthene	1.2	U
207-08-9	Benzo(k)fluoranthene	1.2	U
50-32-8	Benzo(a)pyrene	1.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.2	U
53-70-3	Dibenzo(a,h)anthracene	1.2	U
191-24-2	Benzo(g,h,i)perylene	0.77	J Q

[1] Cannot be separated from Diphenylamine

9/2/08

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K61

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.06

Sample wt/vol: 4.700 (g/mL) G Lab File ID: B16347

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.4	U
74-87-3	Chloromethane	1.4	U
75-01-4	Vinyl chloride	1.4	U
74-83-9	Bromomethane	1.4	U
75-00-3	Chloroethane	1.4	U
75-69-4	Trichlorofluoromethane	3.2	
75-35-4	1,1-Dichloroethene	1.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.4	U
67-64-1	Acetone	36	
75-15-0	Carbon disulfide	1.4	U
79-20-9	Methyl acetate	1.4	U
75-09-2	Methylene chloride	1.4 ~~0.98~~	~~JB~~ U
156-60-5	trans-1,2-Dichloroethene	1.4	U
1634-04-4	Methyl tert-butyl ether	1.4	U
75-34-3	1,1-Dichloroethane	1.4	U
156-59-2	cis-1,2-Dichloroethene	1.4	U
78-93-3	2-Butanone	6.8	U
74-97-5	Bromochloromethane	1.4	U
67-66-3	Chloroform	1.4	U
71-55-6	1,1,1-Trichloroethane	1.4	U
110-82-7	Cyclohexane	1.4	U
56-23-5	Carbon tetrachloride	1.4	U
71-43-2	Benzene	1.4	U
107-06-2	1,2-Dichloroethane	1.4	U
123-91-1	1,4-Dioxane	140	U
79-01-6	Trichloroethene	1.4	U
108-87-2	Methylcyclohexane	1.4	U
78-87-5	1,2-Dichloropropane	1.4	U
75-27-4	Bromodichloromethane	1.4	U
10061-01-5	cis-1,3-Dichloropropene	1.4	U
108-10-1	4-Methyl-2-pentanone	6.8	U
108-88-3	Toluene	1.6	
10061-02-6	trans-1,3-Dichloropropene	1.4	U
79-00-5	1,1,2-Trichloroethane	1.4	U

8/28/08

BREMERTON-012943

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K61

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.06

Sample wt/vol: 4.700 (g/mL) G Lab File ID: B16347

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.4	U
591-78-6	2-Hexanone	6.8	UJ
124-48-1	Dibromochloromethane	1.4	U
106-93-4	1,2-Dibromoethane	1.4	U
108-90-7	Chlorobenzene	1.4	U
100-41-4	Ethylbenzene	1.4	U
95-47-6	o-Xylene	1.4	U
179601-23-1	m,p-Xylene	1.4	U
100-42-5	Styrene	1.4	U
75-25-2	Bromoform	1.4	U
98-82-8	Isopropylbenzene	1.4	U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U
541-73-1	1,3-Dichlorobenzene	1.4	U
106-46-7	1,4-Dichlorobenzene	1.4	U
95-50-1	1,2-Dichlorobenzene	1.4	U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	U
120-82-1	1,2,4-Trichlorobenzene	6.8	U
87-61-6	1,2,3-Trichlorobenzene	6.8	U
87-68-3	Hexachlorobutadiene	1.4	U
67-72-1	Hexachloroethane	2.7	U
91-20-3	Naphthalene	1.4	U
630-20-6	1,1,1,2-Tetrachloroethane	1.4	U
96-18-4	1,2,3-Trichloropropane	1.4	U

5/28/08

BREMERTON-012944

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K61

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.06

Sample wt/vol: 4.700 (g/mL) G Lab File ID: B16347

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.16	11	JBN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

BREMERTON-012945

Report All but PAHs

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K61

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.06

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G0841

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	26	U
108-95-2	Phenol	26	U
111-44-4	Bis(2-chloroethyl)ether	26	U
95-57-8	2-Chlorophenol	26	U
95-48-7	2-Methylphenol	26	U
108-60-1	2,2'-Oxybis(1-chloropropane)	26	U
98-86-2	Acetophenone	26	U
106-44-5	4-Methylphenol	26	U
621-64-7	N-Nitroso-di-n-propylamine	26	U
67-72-1	Hexachloroethane	26	U
98-95-3	Nitrobenzene	26	U
78-59-1	Isophorone	26	U
88-75-5	2-Nitrophenol	26	U
105-67-9	2,4-Dimethylphenol	26	U
111-91-1	Bis(2-chloroethoxy)methane	26	U
120-83-2	2,4-Dichlorophenol	26	U
91-20-3	Naphthalene	26	U
106-47-8	4-Chloroaniline	26	U
87-68-3	Hexachlorobutadiene	26	U
105-60-2	Caprolactam	26	U
59-50-7	4-Chloro-3-methylphenol	26	U
91-57-6	2-Methylnaphthalene	26	U
77-47-4	Hexachlorocyclopentadiene	64	UJ
88-06-2	2,4,6-Trichlorophenol	26	U
95-95-4	2,4,5-Trichlorophenol	26	U
92-52-4	1,1'-Biphenyl	26	U
91-58-7	2-Chloronaphthalene	26	U
88-74-4	2-Nitroaniline	51	U
131-11-3	Dimethylphthalate	26	U
606-20-2	2,6-Dinitrotoluene	26	U
208-96-8	Acenaphthylene	26	U
99-09-2	3-Nitroaniline	51	U
83-32-9	Acenaphthene	26	U
51-28-5	2,4-Dinitrophenol	130	UJ
100-02-7	4-Nitrophenol	51	U
132-64-9	Dibenzofuran	26	U
121-14-2	2,4-Dinitrotoluene	26	U

9/3/08

BREMERTON-012946

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K61

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.06

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G0841

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	26	U
86-73-7	Fluorene	26	U
7005-72-3	4-Chlorophenyl-phenylether	26	U
100-01-6	4-Nitroaniline	51	U
534-52-1	4,6-Dinitro-2-methylphenol	51	U
86-30-6	N-Nitrosodiphenylamine 1	26	U
95-94-3	1,2,4,5-Tetrachlorobenzene	26	U
101-55-3	4-Bromophenyl-phenylether	26	U
118-74-1	Hexachlorobenzene	26	U
1912-24-9	Atrazine	26	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	26	U
120-12-7	Anthracene	26	U
86-74-8	Carbazole	26	U
84-74-2	Di-n-butylphthalate	26	U
206-44-0	Fluoranthene	26	U
129-00-0	Pyrene	26	U
85-68-7	Butylbenzylphthalate	26	U
91-94-1	3,3'-Dichlorobenzidine	26	U
56-55-3	Benzo(a)anthracene	26	U
218-01-9	Chrysene	26	U
117-81-7	Bis(2-ethylhexyl)phthalate	160	
117-84-0	Di-n-octylphthalate	26	U
205-99-2	Benzo(b)fluoranthene	26	U
207-08-9	Benzo(k)fluoranthene	26	U
50-32-8	Benzo(a)pyrene	26	U
193-39-5	Indeno(1,2,3-cd)pyrene	26	U
53-70-3	Dibenzo(a,h)anthracene	26	U
191-24-2	Benzo(g,h,i)perylene	26	U
58-90-2	2,3,4,6-Tetrachlorophenol	26	U
92-87-5	Benzidine	26	U
95-50-1	1,2-Dichlorobenzene	26	U
106-46-7	1,4-Dichlorobenzene	26	U
541-73-1	1,3-Dichlorobenzene	26	U
62-75-9	N-Nitrosodimethylamine	26	U
95-63-6	1,2,4-Trimeznylbenzene	26	U
108-67-8	1,3,5-Trimethylbenzene	26	U

1 Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012947

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K61

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.06

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G0841

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.27	140	JBN
02		Unknown-02	3.09	210	J
03		Unknown-03	4.17	200	J
04		Unknown-04	4.40	130	J
05		Unknown-05	4.67	110	J
06		Unknown-06	4.91	110	J
07		Unknown-07	8.10	96	J
08	000098-55-5	3-Cyclohexene-1-methanol, .al	8.60	150	NJ
09		Unknown-08	10.09	120	JN
10	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.27	510	NJ
11		Unknown-09	10.58	130	JN
12		Unknown-10	15.30	83	J
13		Unknown-11	15.42	150	J
14		Unknown-12	15.46	86	J
15		Unknown-13	15.62	76	J
16		Unknown-14	15.68	74	J
17	001235-74-1	1-Phenanthrenecarboxylic acid	16.66	120	NJ
18		Unknown-15	18.47	64	JN
19		Unknown-16	22.07	93	JN
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/3/08

01539

BREMERTON-012948

Repeat All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K61

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.06

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G0938

Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
91-20-3	Naphthalene	5.9		
91-57-6	2-Methylnaphthalene	6.2		
208-96-8	Acenaphthylene	1.8		
83-32-9	Acenaphthene	8.9		
86-73-7	Fluorene	6.0		
87-86-5	Pentachlorophenol	2.6	U	
85-01-8	Phenanthrene	21	~~J~~	R 9/17/08
120-12-7	Anthracene	6.7		
206-44-0	Fluoranthene	10		
129-00-0	Pyrene	15	~~J~~	R 9/17/08
56-55-3	Benzo(a)anthracene	4.4		
218-01-9	Chrysene	5.9		
205-99-2	Benzo(b)fluoranthene	2.4		
207-08-9	Benzo(k)fluoranthene	2.9		
50-32-8	Benzo(a)pyrene	4.8		
193-39-5	Indeno(1,2,3-cd)pyrene	2.2		
53-70-3	Dibenzo(a,h)anthracene	1.3	J	
191-24-2	Benzo(g,h,i)perylene	2.6		

1 Cannot be separated from Diphenylamine

9/3/08

02063

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K62

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.07

Sample wt/vol: 3.600 (g/mL) G Lab File ID: B16348

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 23 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.8	U
74-87-3	Chloromethane	1.8	U
75-01-4	Vinyl chloride	1.8	U
74-83-9	Bromomethane	1.8	U
75-00-3	Chloroethane	1.8	U
75-69-4	Trichlorofluoromethane	1.3	J Q
75-35-4	1,1-Dichloroethene	1.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.8	U
67-64-1	Acetone	25	
75-15-0	Carbon disulfide	1.8	U
79-20-9	Methyl acetate	1.8	U
75-09-2	Methylene chloride	1.8 ~~1.7~~	~~JB~~ U
156-60-5	trans-1,2-Dichloroethene	1.8	U
1634-04-4	Methyl tert-butyl ether	1.8	U
75-34-3	1,1-Dichloroethane	1.8	U
156-59-2	cis-1,2-Dichloroethene	1.8	U
78-93-3	2-Butanone	9.0	U
74-97-5	Bromochloromethane	1.8	U
67-66-3	Chloroform	1.8	U
71-55-6	1,1,1-Trichloroethane	1.8	U
110-82-7	Cyclohexane	1.8	U
56-23-5	Carbon tetrachloride	1.8	U
71-43-2	Benzene	1.4	J Q
107-06-2	1,2-Dichloroethane	1.8	U
123-91-1	1,4-Dioxane	180	U
79-01-6	Trichloroethene	1.8	U
108-87-2	Methylcyclohexane	1.8	U
78-87-5	1,2-Dichloropropane	1.8	U
75-27-4	Bromodichloromethane	1.8	U
10061-01-5	cis-1,3-Dichloropropene	1.8	U
108-10-1	4-Methyl-2-pentanone	9.0	U
108-88-3	Toluene	1.8	U
10061-02-6	trans-1,3-Dichloropropene	1.8	U
79-00-5	1,1,2-Trichloroethane	1.8	U

5/28/08

BREMERTON-012950

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K62

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.07

Sample wt/vol: 3.600 (g/mL) G Lab File ID: B16348

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 23 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.8	U
591-78-6	2-Hexanone	9.0	UJ
124-48-1	Dibromochloromethane	1.8	U
106-93-4	1,2-Dibromoethane	1.8	U
108-90-7	Chlorobenzene	1.8	U
100-41-4	Ethylbenzene	1.8	U
95-47-6	o-Xylene	1.8	U
179601-23-1	m,p-Xylene	1.8	U
100-42-5	Styrene	1.8	U
75-25-2	Bromoform	1.8	U
98-82-8	Isopropylbenzene	1.8	U
79-34-5	1,1,2,2-Tetrachloroethane	1.8	U
541-73-1	1,3-Dichlorobenzene	1.8	U
106-46-7	1,4-Dichlorobenzene	1.8	U
95-50-1	1,2-Dichlorobenzene	1.8	U
96-12-8	1,2-Dibromo-3-chloropropane	1.8	U
120-82-1	1,2,4-Trichlorobenzene	9.0	U
87-61-6	1,2,3-Trichlorobenzene	9.0	U
87-68-3	Hexachlorobutadiene	1.8	U
67-72-1	Hexachloroethane	3.6	U
91-20-3	Naphthalene	1.8	U
630-20-6	1,1,1,2-Tetrachloroethane	1.8	U
96-18-4	1,2,3-Trichloropropane	1.8	U

8/28/08

BREMERTON-012951

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K62

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.07

Sample wt/vol: 3.600 (g/mL) G Lab File ID: B16348

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 23 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.16	9.6	JBN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

8/28/08

Report All Except PAHs

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K62

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.07

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0842

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	26	U
108-95-2	Phenol	26	U
111-44-4	Bis(2-chloroethyl)ether	26	U
95-57-8	2-Chlorophenol	26	U
95-48-7	2-Methylphenol	26	U
108-60-1	2,2'-Oxybis(1-chloropropane)	26	U
98-86-2	Acetophenone	26	U
106-44-5	4-Methylphenol	26	U
621-64-7	N-Nitroso-di-n-propylamine	26	U
67-72-1	Hexachloroethane	26	U
98-95-3	Nitrobenzene	26	U
78-59-1	Isophorone	26	U
88-75-5	2-Nitrophenol	26	U
105-67-9	2,4-Dimethylphenol	26	U
111-91-1	Bis(2-chloroethoxy)methane	26	U
120-83-2	2,4-Dichlorophenol	26	U
91-20-3	Naphthalene	26	U
106-47-8	4-Chloroaniline	26	U
87-68-3	Hexachlorobutadiene	26	U
105-60-2	Caprolactam	26	U
59-50-7	4-Chloro-3-methylphenol	26	U
91-57-6	2-Methylnaphthalene	26	U
77-47-4	Hexachlorocyclopentadiene	65	UJ
88-06-2	2,4,6-Trichlorophenol	26	U
95-95-4	2,4,5-Trichlorophenol	26	U
92-52-4	1,1'-Biphenyl	26	U
91-58-7	2-Chloronaphthalene	26	U
88-74-4	2-Nitroaniline	52	U
131-11-3	Dimethylphthalate	26	U
606-20-2	2,6-Dinitrotoluene	26	U
208-96-8	Acenaphthylene	26	U
99-09-2	3-Nitroaniline	52	U
83-32-9	Acenaphthene	26	U
51-28-5	2,4-Dinitrophenol	130	UJ
100-02-7	4-Nitrophenol	52	U
132-64-9	Dibenzofuran	26	U
121-14-2	2,4-Dinitrotoluene	26	U

9/3/08

BREMERTON-012953

1E - FORM I SV-2 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K62

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.07

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0842

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	26	U
86-73-7	Fluorene	26	U
7005-72-3	4-Chlorophenyl-phenylether	26	U
100-01-6	4-Nitroaniline	52	U
534-52-1	4,6-Dinitro-2-methylphenol	52	U
86-30-6	N-Nitrosodiphenylamine 1	26	U
95-94-3	1,2,4,5-Tetrachlorobenzene	26	U
101-55-3	4-Bromophenyl-phenylether	26	U
118-74-1	Hexachlorobenzene	26	U
1912-24-9	Atrazine	26	U
87-86-5	Pentachlorophenol	26	UJ
85-01-8	Phenanthrene	26	U
120-12-7	Anthracene	26	U
86-74-8	Carbazole	26	U
84-74-2	Di-n-butylphthalate	26	U
206-44-0	Fluoranthene	26	U
129-00-0	Pyrene	26	U
85-68-7	Butylbenzylphthalate	26	U
91-94-1	3,3'-Dichlorobenzidine	26	U
56-55-3	Benzo(a)anthracene	26	U
218-01-9	Chrysene	26	U
117-81-7	Bis(2-ethylhexyl)phthalate	170	
117-84-0	Di-n-octylphthalate	26	U
205-99-2	Benzo(b)fluoranthene	26	U
207-08-9	Benzo(k)fluoranthene	26	U
50-32-8	Benzo(a)pyrene	26	U
193-39-5	Indeno(1,2,3-cd)pyrene	26	U
53-70-3	Dibenzo(a,h)anthracene	26	U
191-24-2	Benzo(g,h,i)perylene	26	U
58-90-2	2,3,4,6-Tetrachlorophenol	26	U
92-87-5	Benzidine	26	U
95-50-1	1,2-Dichlorobenzene	26	U
106-46-7	1,4-Dichlorobenzene	26	U
541-73-1	1,3-Dichlorobenzene	26	U
62-75-9	N-Nitrosodimethylamine	26	U
95-63-6	1,2,4-Trimethylbenzene	26	U
108-67-8	1,3,5-Trimethylbenzene	26	U

1 Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012954

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K62

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.07

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0842

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.4 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.27	81	JBN
02		Unknown-02	2.31	98	J
03		Unknown-03	3.09	220	J
04		Unknown-04	3.64	78	J
05		Unknown-05	4.17	250	J
06		Unknown-06	4.40	110	J
07		Unknown-07	4.67	140	J
08		Unknown-08	4.91	140	J
09		Unknown-09	8.60	110	J
10		Unknown-10	10.08	70	J
11		Unknown-11	10.27	380	J
12		Unknown-12	10.58	100	J
13	000124-26-5	Octadecanamide	18.07	71	NJ
14	007683-64-9	Squalene	18.23	72	NJ
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/3/08

91573

BREMERTON-012955

Report All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K62

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.07

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0939

Extraction: (Type) SONC

% Moisture: 23 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 5.4 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.3	U
91-57-6	2-Methylnaphthalene	1.3	U
208-96-8	Acenaphthylene	1.3	U
83-32-9	Acenaphthene	1.3	U
86-73-7	Fluorene	1.3	U
87-86-5	Pentachlorophenol	2.6	U
85-01-8	Phenanthrene	1.3	U
120-12-7	Anthracene	1.3	U
206-44-0	Fluoranthene	1.3	U
129-00-0	Pyrene	1.3	U
56-55-3	Benzo(a)anthracene	1.3	U
218-01-9	Chrysene	1.3	U
205-99-2	Benzo(b)fluoranthene	1.3	U
207-08-9	Benzo(k)fluoranthene	1.3	U
50-32-8	Benzo(a)pyrene	1.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	J Q
53-70-3	Dibenzo(a,h)anthracene	0.94	J Q
191-24-2	Benzo(g,h,i)perylene	1.3	

[1] Cannot be separated from Diphenylamine

9/2/08

BREMERTON-012956

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K82

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.02

Sample wt/vol: 4.800 (g/mL) G Lab File ID: B16306

Level: (TRACE/LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 14 Date Analyzed: 05/22/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.2	U
74-87-3	Chloromethane	1.2	U
75-01-4	Vinyl chloride	1.2	U
74-83-9	Bromomethane	1.2	U
75-00-3	Chloroethane	1.2	U
75-69-4	Trichlorofluoromethane	1.2	U
75-35-4	1,1-Dichloroethene	1.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U
67-64-1	Acetone	16	
75-15-0	Carbon disulfide	1.2	U
79-20-9	Methyl acetate	1.2	U
75-09-2	Methylene chloride	1.2 ~~3.64~~	~~7B~~ U
156-60-5	trans-1,2-Dichloroethene	1.2	U
1634-04-4	Methyl tert-butyl ether	1.2	U
75-34-3	1,1-Dichloroethane	1.2	U
156-59-2	cis-1,2-Dichloroethene	1.2	U
78-93-3	2-Butanone	6.1	U
74-97-5	Bromochloromethane	1.2	U
67-66-3	Chloroform	1.2	U
71-55-6	1,1,1-Trichloroethane	1.2	U
110-82-7	Cyclohexane	1.2	U
56-23-5	Carbon tetrachloride	1.2	U
71-43-2	Benzene	1.2	U
107-06-2	1,2-Dichloroethane	1.2	U
123-91-1	1,4-Dioxane	120	U
79-01-6	Trichloroethene	1.2	U
108-87-2	Methylcyclohexane	1.2	U
78-87-5	1,2-Dichloropropane	1.2	U
75-27-4	Bromodichloromethane	1.2	U
10061-01-5	cis-1,3-Dichloropropene	1.2	U
108-10-1	4-Methyl-2-pentanone	6.1	U
108-88-3	Toluene	1.2	U
10061-02-6	trans-1,3-Dichloropropene	1.2	U
79-00-5	1,1,2-Trichloroethane	1.2	U

8/28/08

SOM01.2 (6/2007)

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K82

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.02

Sample wt/vol: 4.800 (g/mL) G Lab File ID: B16306

Level: (TRACE/LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 14 Date Analyzed: 05/22/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.2	U
591-78-6	2-Hexanone	6.1	UJ
124-48-1	Dibromochloromethane	1.2	U
106-93-4	1,2-Dibromoethane	1.2	U
108-90-7	Chlorobenzene	1.2	U
100-41-4	Ethylbenzene	1.2	U
95-47-6	o-Xylene	1.2	U
179601-23-1	m,p-Xylene	1.2	U
100-42-5	Styrene	1.2	U
75-25-2	Bromoform	1.2	U
98-82-8	Isopropylbenzene	1.2	U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	U
541-73-1	1,3-Dichlorobenzene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.2	U
120-82-1	1,2,4-Trichlorobenzene	6.1	U
87-61-6	1,2,3-Trichlorobenzene	6.1	U
87-68-3	Hexachlorobutadiene	1.2	U
67-72-1	Hexachloroethane	2.4	U
91-20-3	Naphthalene	1.2	U
630-20-6	1,1,1,2-Tetrachloroethane	1.2	U
96-18-4	1,2,3-Trichloropropane	1.2	U

8/28/08

BREMERTON-012958

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K82

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.02

Sample wt/vol: 4.800 (g/mL) G Lab File ID: B16306

Level: (TRACE or LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 14 Date Analyzed: 05/22/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.55	3.6	JN
02	000541-05-9	Cyclotrisiloxane, hexamethyl-	11.11	2.9	NJ
03		Unknown-02	11.17	5.5	JN
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

5/20/08

Report All Except PAHs

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K82

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.02

Sample wt/vol: 100.5 (g/mL) G Lab File ID: G0821

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	23	U
108-95-2	Phenol	23	U
111-44-4	Bis(2-chloroethyl)ether	23	U
95-57-8	2-Chlorophenol	23	U
95-48-7	2-Methylphenol	23	U
108-60-1	2,2'-Oxybis(1-chloropropane)	23	U
98-86-2	Acetophenone	23	U
106-44-5	4-Methylphenol	23	U
621-64-7	N-Nitroso-di-n-propylamine	23	U
67-72-1	Hexachloroethane	23	U
98-95-3	Nitrobenzene	23	U
78-59-1	Isophorone	23	U
88-75-5	2-Nitrophenol	23	U
105-67-9	2,4-Dimethylphenol	23	U
111-91-1	Bis(2-chloroethoxy)methane	23	U
120-83-2	2,4-Dichlorophenol	23	U
91-20-3	Naphthalene	23	U
106-47-8	4-Chloroaniline	23	U
87-68-3	Hexachlorobutadiene	23	U
105-60-2	Caprolactam	23	U
59-50-7	4-Chloro-3-methylphenol	23	U
91-57-6	2-Methylnaphthalene	23	U
77-47-4	Hexachlorocyclopentadiene	58	UJ
88-06-2	2,4,6-Trichlorophenol	23	U
95-95-4	2,4,5-Trichlorophenol	23	U
92-52-4	1,1'-Biphenyl	23	U
91-58-7	2-Chloronaphthalene	23	U
88-74-4	2-Nitroaniline	46	U
131-11-3	Dimethylphthalate	23	U
606-20-2	2,6-Dinitrotoluene	23	U
208-96-8	Acenaphthylene	23	U
99-09-2	3-Nitroaniline	46	U
83-32-9	Acenaphthene	23	U
51-28-5	2,4-Dinitrophenol	120	UJ
100-02-7	4-Nitrophenol	46	U
132-64-9	Dibenzofuran	23	U
121-14-2	2,4-Dinitrotoluene	23	U

9/3/08

BREMERTON-012960

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K82

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.02

Sample wt/vol: 100.5 (g/mL) G Lab File ID: G0821

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	23	U
86-73-7	Fluorene	23	U
7005-72-3	4-Chlorophenyl-phenylether	23	U
100-01-6	4-Nitroaniline	46	U
534-52-1	4,6-Dinitro-2-methylphenol	46	U
86-30-6	N-Nitrosodiphenylamine 1	23	U
95-94-3	1,2,4,5-Tetrachlorobenzene	23	U
101-55-3	4-Bromophenyl-phenylether	23	U
118-74-1	Hexachlorobenzene	23	U
1912-24-9	Atrazine	23	U
87-86-5	Pentachlorophenol	23	UJ
85-01-8	Phenanthrene	23	U
120-12-7	Anthracene	23	U
86-74-8	Carbazole	23	U
84-74-2	Di-n-butylphthalate	23	U
206-44-0	Fluoranthene	23	U
129-00-0	Pyrene	23	U
85-68-7	Butylbenzylphthalate	23	U
91-94-1	3,3'-Dichlorobenzidine	23	U
56-55-3	Benzo(a)anthracene	23	U
218-01-9	Chrysene	23	U
117-81-7	Bis(2-ethylhexyl)phthalate	69	
117-84-0	Di-n-octyl phthalate	23	U
205-99-2	Benzo(b)fluoranthene	23	U
207-08-9	Benzo(k)fluoranthene	23	U
50-32-8	Benzo(a)pyrene	23	U
193-39-5	Indeno(1,2,3-cd)pyrene	23	U
53-70-3	Dibenzo(a,h)anthracene	23	U
191-24-2	Benzo(g,h,i)perylene	23	U
58-90-2	2,3,4,6-Tetrachlorophenol	23	U
92-87-5	Benzidine	23	U
95-50-1	1,2-Dichlorobenzene	23	U
106-46-7	1,4-Dichlorobenzene	23	U
541-73-1	1,3-Dichlorobenzene	23	U
62-75-9	N-Nitrosodimethylamine	23	U
95-63-6	1,2,4-Trimethylbenzene	23	U
108-67-8	1,3,5-Trimethylbenzene	23	U

1 Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012961

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K82

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.02

Sample wt/vol: 100.5 (g/mL) G Lab File ID: G0821

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/11/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.28	53	JN
02		Unknown-02	3.09	120	J
03		Unknown-03	4.17	120	J
04		Unknown-04	4.40	58	J
05		Unknown-05	4.67	72	J
06		Unknown-06	4.91	76	J
07	005469-16-9	2(3H)-Furanone, dihydro-4-hyd	8.08	89	NJ
08		Unknown-07	10.05	100	JN
09	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.26	200	NJ
10		Unknown-08	10.42	59	JN
11		Unknown-09	10.57	54	J
12		Unknown-10	12.54	59	J
13	007683-64-9	Squalene	18.24	60	NJ
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

9/2/10 01603

Repeat All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K82

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.02

Sample wt/vol: 100.5 (g/mL) G Lab File ID: G0915

Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/14/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	5.0	
91-57-6	2-Methylnaphthalene	2.3	
208-96-8	Acenaphthylene	1.9	
83-32-9	Acenaphthene	1.5	
86-73-7	Fluorene	1.3	
87-86-5	Pentachlorophenol	2.3	U
85-01-8	Phenanthrene	4.0	
120-12-7	Anthracene	1.2	
206-44-0	Fluoranthene	2.8	
129-00-0	Pyrene	3.9	
56-55-3	Benzo(a)anthracene	1.1	JQ
218-01-9	Chrysene	1.6	
205-99-2	Benzo(b)fluoranthene	0.85	JQ
207-08-9	Benzo(k)fluoranthene	1.0	JQ
50-32-8	Benzo(a)pyrene	1.9	
193-39-5	Indeno(1,2,3-cd)pyrene	2.5	
53-70-3	Dibenzo(a,h)anthracene	2.2	
191-24-2	Benzo(g,h,i)perylene	2.7	

[1] Cannot be separated from Diphenylamine

BREMERTON-012963

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K83

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.03

Sample wt/vol: 4.500 (g/mL) G Lab File ID: B16307

Level: (TRACE/LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 13 Date Analyzed: 05/22/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.3	U
74-87-3	Chloromethane	1.3	U
75-01-4	Vinyl chloride	1.3	U
74-83-9	Bromomethane	1.3	U
75-00-3	Chloroethane	1.3	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	1.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	U
67-64-1	Acetone	18	
75-15-0	Carbon disulfide	1.3	U
79-20-9	Methyl acetate	1.3	U
75-09-2	Methylene chloride	1.3 ~~0.87~~	~~JB~~ U
156-60-5	trans-1,2-Dichloroethene	1.3	U
1634-04-4	Methyl tert-butyl ether	1.3	U
75-34-3	1,1-Dichloroethane	1.3	U
156-59-2	cis-1,2-Dichloroethene	1.3	U
78-93-3	2-Butanone	6.4	U
74-97-5	Bromochloromethane	1.3	U
67-66-3	Chloroform	1.3	U
71-55-6	1,1,1-Trichloroethane	1.3	U
110-82-7	Cyclohexane	1.3	U
56-23-5	Carbon tetrachloride	1.3	U
71-43-2	Benzene	1.3	U
107-06-2	1,2-Dichloroethane	1.3	U
123-91-1	1,4-Dioxane	130	U
79-01-6	Trichloroethene	1.3	U
108-87-2	Methylcyclohexane	1.3	U
78-87-5	1,2-Dichloropropane	1.3	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	1.3	U
108-10-1	4-Methyl-2-pentanone	6.4	U
108-88-3	Toluene	1.3	U
10061-02-6	trans-1,3-Dichloropropene	1.3	U
79-00-5	1,1,2-Trichloroethane	1.3	U

8/28/08

BREMERTON-012964

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K83

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.03

Sample wt/vol: 4.500 (g/mL) G Lab File ID: B16307

Level: (TRACE/LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 13 Date Analyzed: 05/22/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.3	U
591-78-6	2-Hexanone	6.4	UJ
124-48-1	Dibromochloromethane	1.3	U
106-93-4	1,2-Dibromoethane	1.3	U
108-90-7	Chlorobenzene	1.3	U
100-41-4	Ethylbenzene	1.3	U
95-47-6	o-Xylene	1.3	U
179601-23-1	m,p-Xylene	1.3	U
100-42-5	Styrene	1.3	U
75-25-2	Bromoform	1.3	U
98-82-8	Isopropylbenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	U
541-73-1	1,3-Dichlorobenzene	1.3	U
106-46-7	1,4-Dichlorobenzene	1.3	U
95-50-1	1,2-Dichlorobenzene	1.3	U
96-12-8	1,2-Dibromo-3-chloropropane	1.3	U
120-82-1	1,2,4-Trichlorobenzene	6.4	U
87-61-6	1,2,3-Trichlorobenzene	6.4	U
87-68-3	Hexachlorobutadiene	1.3	U
67-72-1	Hexachloroethane	2.6	U
91-20-3	Naphthalene	1.3	U
630-20-6	1,1,1,2-Tetrachloroethane	1.3	U
96-18-4	1,2,3-Trichloropropane	1.3	U

8/28/08

BREMERTON-012965

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K83

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.03

Sample wt/vol: 4.500 (g/mL) G Lab File ID: B16307

Level: (TRACE or LOW/MED) LOW Date Received: 05/15/2008

% Moisture: not dec. 13 Date Analyzed: 05/22/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.17	7.7	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
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19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	6.7	JN

[1] EPA-designated Registry Number.

BREMERTON-012966

Report All but PAHs

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K83

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.03

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0835

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	23	U
108-95-2	Phenol	23	U
111-44-4	Bis(2-chloroethyl)ether	23	U
95-57-8	2-Chlorophenol	23	U
95-48-7	2-Methylphenol	23	U
108-60-1	2,2'-Oxybis(1-chloropropane)	23	U
98-86-2	Acetophenone	23	U
106-44-5	4-Methylphenol	23	U
621-64-7	N-Nitroso-di-n-propylamine	23	U
67-72-1	Hexachloroethane	23	U
98-95-3	Nitrobenzene	23	U
78-59-1	Isophorone	23	U
88-75-5	2-Nitrophenol	23	U
105-67-9	2,4-Dimethylphenol	23	U
111-91-1	Bis(2-chloroethoxy)methane	23	U
120-83-2	2,4-Dichlorophenol	23	U
91-20-3	Naphthalene	23	U
106-47-8	4-Chloroaniline	23	U
87-68-3	Hexachlorobutadiene	23	U
105-60-2	Caprolactam	23	U
59-50-7	4-Chloro-3-methylphenol	23	U
91-57-6	2-Methylnaphthalene	23	U
77-47-4	Hexachlorocyclopentadiene	57	UJ
88-06-2	2,4,6-Trichlorophenol	23	U
95-95-4	2,4,5-Trichlorophenol	23	U
92-52-4	1,1'-Biphenyl	23	U
91-58-7	2-Chloronaphthalene	23	U
88-74-4	2-Nitroaniline	46	U
131-11-3	Dimethylphthalate	23	U
606-20-2	2,6-Dinitrotoluene	23	U
208-96-8	Acenaphthylene	23	U
99-09-2	3-Nitroaniline	46	U
83-32-9	Acenaphthene	23	U
51-28-5	2,4-Dinitrophenol	110	UJ
100-02-7	4-Nitrophenol	46	U
132-64-9	Dibenzofuran	23	U
121-14-2	2,4-Dinitrotoluene	23	U

9/3/08

BREMERTON-012967

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K83

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.03

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0835

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	23	U
86-73-7	Fluorene	23	U
7005-72-3	4-Chlorophenyl-phenylether	23	U
100-01-6	4-Nitroaniline	46	U
534-52-1	4,6-Dinitro-2-methylphenol	46	U
86-30-6	N-Nitrosodiphenylamine 1	23	U
95-94-3	1,2,4,5-Tetrachlorobenzene	23	U
101-55-3	4-Bromophenyl-phenylether	23	U
118-74-1	Hexachlorobenzene	23	U
1912-24-9	Atrazine	23	U
87-86-5	Pentachlorophenol	23	UJ
85-01-8	Phenanthrene	23	U
120-12-7	Anthracene	23	U
86-74-8	Carbazole	23	U
84-74-2	Di-n-butylphthalate	23	U
206-44-0	Fluoranthene	23	U
129-00-0	Pyrene	23	U
85-68-7	Butylbenzylphthalate	23	U
91-94-1	3,3'-Dichlorobenzidine	23	U
56-55-3	Benzo(a)anthracene	23	U
218-01-9	Chrysene	23	U
117-81-7	Bis(2-ethylhexyl)phthalate	160	
117-84-0	Di-n-octylphthalate	23	U
205-99-2	Benzo(b)fluoranthene	23	U
207-08-9	Benzo(k)fluoranthene	23	U
50-32-8	Benzo(a)pyrene	23	U
193-39-5	Indeno(1,2,3-cd)pyrene	23	U
53-70-3	Dibenzo(a,h)anthracene	23	U
191-24-2	Benzo(g,h,i)perylene	23	U
58-90-2	2,3,4,6-Tetrachlorophenol	23	U
92-87-5	Benzidine	23	U
95-50-1	1,2-Dichlorobenzene	23	U
106-46-7	1,4-Dichlorobenzene	23	U
541-73-1	1,3-Dichlorobenzene	23	U
62-75-9	N-Nitrosodimethylamine	23	U
95-63-6	1,2,4-Trimethylbenzene	23	U
108-67-8	1,3,5-Trimethylbenzene	23	U

1 Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012968

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K83

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.03

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0835

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.28	64	JN
02		Unknown-02	2.46	53	J
03		Unknown-03	2.58	51	J
04		Unknown-04	2.69	40	J
05		Unknown-05	2.76	44	J
06		Unknown-06	3.09	220	J
07		Unknown-07	3.64	56	J
08		Unknown-08	4.17	110	J
09		Unknown-09	4.21	78	J
10		Unknown-10	4.40	130	J
11		Unknown-11	4.61	34	J
12		Unknown-12	4.67	100	J
13		Unknown-13	4.91	110	J
14		Unknown-14	8.12	110	J
15		Unknown-15	8.60	130	J
16		Unknown-16	10.09	54	J
17		Unknown-17	10.16	64	J
18		Unknown-18	10.28	460	J
19		Unknown-19	10.51	35	J
20		Unknown-20	10.58	120	J
21		Unknown-21	11.18	25	JJ
22	000096-76-4	Phenol, 2,4-bis(1,1-dimethyle	12.55	25	NJ
23		Unknown-22	12.38	31	JN
24	000112-84-5	13-Docosenamide, (Z)-	18.07	25	NJ
25		Unknown-23	18.23	35	JN
26					
27					
28					
29					
30					
	E9667962	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

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BREMERTON-012969

Report All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K83

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0903.03

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0931

Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/15/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.1	U
91-57-6	2-Methylnaphthalene	1.1	U
208-96-8	Acenaphthylene	1.1	U
83-32-9	Acenaphthene	1.1	U
86-73-7	Fluorene	1.1	U
87-86-5	Pentachlorophenol	0.81	JQ
85-01-8	Phenanthrene	1.1	U
120-12-7	Anthracene	1.1	U
206-44-0	Fluoranthene	1.1	U
129-00-0	Pyrene	1.1	U
56-55-3	Benzo(a)anthracene	1.1	U
218-01-9	Chrysene	1.1	U
205-99-2	Benzo(b)fluoranthene	1.1	U
207-08-9	Benzo(k)fluoranthene	1.1	U
50-32-8	Benzo(a)pyrene	1.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	JQ
53-70-3	Dibenzo(a,h)anthracene	0.96	JQ
191-24-2	Benzo(g,h,i)perylene	1.4	

[1] Cannot be separated from Diphenylamine

9/3/08

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K84

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.08

Sample wt/vol: 4.800 (g/mL) G Lab File ID: B16337

Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 20 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.3	U
74-87-3	Chloromethane	1.3	U
75-01-4	Vinyl chloride	1.3	U
74-83-9	Bromomethane	1.3	U
75-00-3	Chloroethane	1.3	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	1.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	U
67-64-1	Acetone	20	
75-15-0	Carbon disulfide	1.3	U
79-20-9	Methyl acetate	1.3	U
75-09-2	Methylene chloride	1.3 ~~1.2~~	~~JB~~ U
156-60-5	trans-1,2-Dichloroethene	1.3	U
1634-04-4	Methyl tert-butyl ether	1.3	U
75-34-3	1,1-Dichloroethane	1.3	U
156-59-2	cis-1,2-Dichloroethene	1.3	U
78-93-3	2-Butanone	6.5	U
74-97-5	Bromochloromethane	1.3	U
67-66-3	Chloroform	1.3	U
71-55-6	1,1,1-Trichloroethane	1.3	U
110-82-7	Cyclohexane	1.3	U
56-23-5	Carbon tetrachloride	1.3	U
71-43-2	Benzene	1.3	U
107-06-2	1,2-Dichloroethane	1.3	U
123-91-1	1,4-Dioxane	130	U
79-01-6	Trichloroethene	1.3	U
108-87-2	Methylcyclohexane	1.3	U
78-87-5	1,2-Dichloropropane	1.3	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	1.3	U
108-10-1	4-Methyl-2-pentanone	6.5	U
108-88-3	Toluene	0.78	J Q
10061-02-6	trans-1,3-Dichloropropene	1.3	U
79-00-5	1,1,2-Trichloroethane	1.3	U

8/28/08

BREMERTON-012971

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K84

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.08

Sample wt/vol: 4.800 (g/mL) G Lab File ID: B16337

Level: (TRACE/LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 20 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.3	U
591-78-6	2-Hexanone	6.5	UJ
124-48-1	Dibromochloromethane	1.3	U
106-93-4	1,2-Dibromoethane	1.3	U
108-90-7	Chlorobenzene	1.3	U
100-41-4	Ethylbenzene	1.3	U
95-47-6	o-Xylene	1.3	U
179601-23-1	m,p-Xylene	1.3	U
100-42-5	Styrene	1.3	U
75-25-2	Bromoform	1.3	U
98-82-8	Isopropylbenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	U
541-73-1	1,3-Dichlorobenzene	1.3	U
106-46-7	1,4-Dichlorobenzene	1.3	U
95-50-1	1,2-Dichlorobenzene	1.3	U
96-12-8	1,2-Dibromo-3-chloropropane	1.3	U
120-82-1	1,2,4-Trichlorobenzene	6.5	U
87-61-6	1,2,3-Trichlorobenzene	6.5	U
87-68-3	Hexachlorobutadiene	1.3	U
67-72-1	Hexachloroethane	2.6	U
91-20-3	Naphthalene	1.5	J U
630-20-6	1,1,1,2-Tetrachloroethane	1.3	U
96-18-4	1,2,3-Trichloropropane	1.3	U

8/28/08

BREMERTON-012972

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K84

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.08

Sample wt/vol: 4.800 (g/mL) G Lab File ID: B16337

Level: (TRACE or LOW/MED) LOW Date Received: 05/16/2008

% Moisture: not dec. 20 Date Analyzed: 05/23/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.69	2100	JN
02		Unknown-02	11.16	9.8	JN
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

5/28/08

Report All but PAHs

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K84

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.08

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0831

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	25	U
108-95-2	Phenol	25	U
111-44-4	Bis(2-chloroethyl)ether	25	U
95-57-8	2-Chlorophenol	25	U
95-48-7	2-Methylphenol	25	U
108-60-1	2,2'-Oxybis(1-chloropropane)	25	U
98-86-2	Acetophenone	25	U
106-44-5	4-Methylphenol	25	U
621-64-7	N-Nitroso-di-n-propylamine	25	U
67-72-1	Hexachloroethane	25	U
98-95-3	Nitrobenzene	25	U
78-59-1	Isophorone	25	U
88-75-5	2-Nitrophenol	25	U
105-67-9	2,4-Dimethylphenol	25	U
111-91-1	Bis(2-chloroethoxy)methane	25	U
120-83-2	2,4-Dichlorophenol	25	U
91-20-3	Naphthalene	25	U
106-47-8	4-Chloroaniline	25	U
87-68-3	Hexachlorobutadiene	25	U
105-60-2	Caprolactam	25	U
59-50-7	4-Chloro-3-methylphenol	25	U
91-57-6	2-Methylnaphthalene	25	U
77-47-4	Hexachlorocyclopentadiene	62	UJ
88-06-2	2,4,6-Trichlorophenol	25	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	25	U
91-58-7	2-Chloronaphthalene	25	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	25	U
606-20-2	2,6-Dinitrotoluene	25	U
208-96-8	Acenaphthylene	25	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	25	U
51-28-5	2,4-Dinitrophenol	120	UJ
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	25	U
121-14-2	2,4-Dinitrotoluene	25	U

9/3/08

BREMERTON-012974

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K84

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.08

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0831

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	25	U
86-73-7	Fluorene	25	U
7005-72-3	4-Chlorophenyl-phenylether	25	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine 1	25	U
95-94-3	1,2,4,5-Tetrachlorobenzene	25	U
101-55-3	4-Bromophenyl-phenylether	25	U
118-74-1	Hexachlorobenzene	25	U
1912-24-9	Atrazine	25	U
87-86-5	Pentachlorophenol	25	UJ
85-01-8	Phenanthrene	25	U
120-12-7	Anthracene	25	U
86-74-8	Carbazole	25	U
84-74-2	Di-n-butylphthalate	16	J
206-44-0	Fluoranthene	25	U
129-00-0	Pyrene	25	U
85-68-7	Butylbenzylphthalate	29	
91-94-1	3,3'-Dichlorobenzidine	25	U
56-55-3	Benzo(a)anthracene	25	U
218-01-9	Chrysene	25	U
117-81-7	Bis(2-ethylhexyl)phthalate	250	
117-84-0	Di-n-octylphthalate	25	U
205-99-2	Benzo(b)fluoranthene	25	U
207-08-9	Benzo(k)fluoranthene	25	U
50-32-8	Benzo(a)pyrene	25	U
193-39-5	Indeno(1,2,3-cd)pyrene	25	U
53-70-3	Dibenzo(a,h)anthracene	25	U
191-24-2	Benzo(g,h,i)perylene	25	U
58-90-2	2,3,4,6-Tetrachlorophenol	25	U
92-87-5	Benzidine	25	U
95-50-1	1,2-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
541-73-1	1,3-Dichlorobenzene	25	U
62-75-9	N-Nitrosodimethylamine	25	U
95-63-6	1,2,4-Trimethylbenzene	25	U
108-67-8	1,3,5-Trimethylbenzene	25	U

1 Cannot be separated from Diphenylamine

9/3/08

BREMERTON-012975

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K84

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.08

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0831

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.28	68	JN
02		Unknown-02	2.58	63	J
03		Unknown-03	3.09	170	J
04		Unknown-04	3.64	54	J
05		Unknown-05	4.17	170	J
06		Unknown-06	4.40	83	J
07		Unknown-07	4.67	91	J
08		Unknown-08	4.91	110	J
09		Unknown-09	8.09	90	J
10	000098-55-5	3-Cyclohexene-1-methanol, .al	8.60	110	NJ
11	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.26	360	NJ
12		Unknown-10	10.58	110	JN
13		Unknown-11	11.18	65	JN
14	007683-64-9	Squalene	18.23	83	NJ
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

9/3/08

01675

BREMERTON-012976

Report All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K84

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K48

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0908.08

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0925

Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 05/16/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/24/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/14/2008

GPC Cleanup: (Y/N) Y pH: 6.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.2	UJ
91-57-6	2-Methylnaphthalene	1.2	U
208-96-8	Acenaphthylene	1.2	U
83-32-9	Acenaphthene	1.2	U
86-73-7	Fluorene	1.2	U
87-86-5	Pentachlorophenol	2.5	UJ
85-01-8	Phenanthrene	~~0.71~~ 1,2	~~J~~ U
120-12-7	Anthracene	1.2	UJ
206-44-0	Fluoranthene	1.2	U
129-00-0	Pyrene	1.2	U
56-55-3	Benzo(a)anthracene	1.2	UJ
218-01-9	Chrysene	0.67	JQ
205-99-2	Benzo(b)fluoranthene	1.2	UJ
207-08-9	Benzo(k)fluoranthene	1.2	UJ
50-32-8	Benzo(a)pyrene	1.2	UJ
193-39-5	Indeno(1,2,3-cd)pyrene	1.1	JQ
53-70-3	Dibenzo(a,h)anthracene	0.93	JQ
191-24-2	Benzo(g,h,i)perylene	1.2	JQ

U

UJ R 9/17/08

U

U R 9/17/08

R 9/17/08

[1] Cannot be separated from Diphenylamine

9/3/08

ecology and environment, inc.
International Specialists in the Environment
720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: August 29, 2008

TO: Renee Nordeen, START-3 Project Manager, E & E, Seattle, WA

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington MW

SUBJ: **Organic Data Summary Check,**
Bremerton Gasworks Properties, Bremerton, Washington

REF: TDD: 07-01-0008 PAN: 002233.0178.01BR

The data summary check of 20 soil samples collected from the Bremerton Gasworks Properties site located in Bremerton, Washington, has been completed. Analysis for volatile and semivolatile organic compounds (EPA CLP SOW SOM01.2) was performed by KAP Technologies, Inc., The Woodlands, Texas.

The samples were numbered:

J8K63	J8K64	J8K65	J8K66	J8K68
J8K69	J8K70	J8K71	J8K72	J8K73
J8K79	J8K80	J8K81	J8K91	J8K30
J8K31	J8K32	J8K33	J8K34	J8K35

No discrepancies were noted. The secondary reviewer added "Q" bias qualifiers to positive results less than the Contract Required Quantitation Limit.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, Washington 98101

August 25, 2008

Reply to
Attn of: OEA-095

MEMORANDUM

Subject: Data Review Report for the Volatile, Semi-Volatile Organic (SVOC / SIM) Analyses of Samples collected from the Bremerton Gasworks Brownfield Site
Case: 37435 SDGs: J8K63

From: Raymond Wu, Chemist
Office of Environmental Assessment RW 8/25/08

To: Joanne LaBaw, Site Assessment Manager
Office of Environmental Cleanup

CC: Renee Nordeen, Project Manager
Ecology and Environment, Inc.

The quality assurance (QA) review of the analytical data generated from the analysis of 20 soil samples collected from the above referenced site has been completed. Samples were analyzed for Volatile, Semi-Volatile (SVOC/SIM) in accordance with the USEPA Contract Laboratory Program (CLP) Statement of Work (SOW) for Organic Analyses (SOM01.2) by KAP Technologies, Inc. in The Woodlands, Texas. The following samples were evaluated in this validation report:

SDG: J8K63

J8K63	J8K64	J8K65	J8K66	J8K68	J8K69	J8K70
J8K71	J8K72	J8K73	J8K79	J8K80	J8K81	J8K91
J8K30	J8K31	J8K32	J8K33	J8K34	J8K35	

DATA QUALIFICATIONS

The following comments refer to the laboratory performance in meeting the Quality Control specifications outlined in the Sampling and Quality Assurance Plan July 1, 2008, prepared by Ecology and Environment, USEPA CLP SOW for Organic Analysis (SOM01.2, 05/2008), and the applicable criteria set forth in the USEPA Contract Laboratory Program's National Functional Guidelines for Organic Data Review (07/2007). The data reviews conducted on these analyses were based on the QC Forms and Sample Data Summary Forms submitted by the laboratories. Review of the raw data of the analyses was not conducted. The conclusions presented herein are based on the information provided for the review.

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Please note:

1) The original Chain of custody forms had some inconsistencies (eg. sampling date and time, missing preservation information) & they were later reconciled by the sampling contractor. Clarifications were received as emails from the sampling contractor.
2) Sample results are reported from the combination of Full Scan, Full Scan Dilution, SIM and SIM dilution runs.
3) Some of the VOC, SVOC and SIM reporting limits were reported by the contract lab at higher concentration levels than those listed in the QAPP (MA 1568.0).
4) Matrix effects were widely observed in this SDG.

The samples were evaluated based on the following QC elements:

$ Holding Time
$ Method and Trip Blanks
$ Initial and Continuing Calibration
$ Surrogate Recoveries
$ Lab Control Spike Recovery
$ Target Compound and Reporting Limits
$ GC/MS Spectra Matching Criteria

Overall Assessment

All of the samples met the technical acceptance criteria for each of the QC elements listed above with the exception of the following:

Four ICALs (two VOC, one SVOC & one SIM) were evaluated in this report. They met the technical acceptance criteria for the percent relative standard deviations (%RSDs) and the minimum relative response factors (RRFs) for all target compounds and surrogates with the exception of the following:

5/22/08 @ 14:02 (VOC) & 6/11/08@17:02 (SVOC)

$ The %RSD of Chloroethane (34.1%) in the VOC initial calibration exceeded the control limit of 30%. Recalculation of the %RSD indicated that it was not linear at the high end of the curve and the corresponding samples would be J/None qualified for this analyte.

$ The %RSD of 2-Hexanone (34.5%) in the VOC initial calibration exceeded the control limit of 30%. Recalculation of the %Reds indicated that it was not linear at the low end of the curve and the corresponding samples would be J/UJ qualified for this analyte.

$ The %RSD of Hexachlorocyclopentadiene (35.6%), 2,4-Dinitrophenol (36.8%) and Pentachlorophenol (37.2%) in the SVOC initial calibration exceeded the control limit of 30%. Recalculation of the %RSDs indicated that they were not linear at the low end of

the curve and the corresponding samples would be J/UJ qualified for those analytes.

$ All of the CCV checks met the criteria for frequency of analysis, the SOW specified, minimum RRFs and %Ds as compared to the initial calibration with the exception of the following:

"VOC"

Date/Time of Analysis/ Inst.	Compound	%D	Qualifier Detect/Non-detect	Associated Samples
05/23/08 18:43 B-5973 (opening ccv)	Naphthalene	38.0	J/None	J8K63
5/25/08 23:00 B-5973 (opening ccv)	Trichlorofluoromethane	34.3	J/None	J8K69, J8K69DL
5/27/08 07:23 B-5973 (opening ccv)	Methyl Acetate	29.7	J/None	J8K71, J8K71DL J8K79, J8K81

"SVOC"

Date/Time of Analysis/ Inst.	Compound	%D	Qualifier Detect/Non-detect	Associated Samples
06/12/08 07:54 G-5973 (opening ccv)	Pentachlorophenol	29.7	J/None	J8K68, J8K69 J8K68DL,J8K69DL J8K68DL2,J8K69DL2 J8K91
06/12/08 22:23 G-5973 (opening ccv)	Hexachlorocyclopentadiene	-34.7	J/UJ	J8K31 -> J8K35 J8K63 -> J8K66 J8K70
	Pentachlorophenol	-35.2	J/UJ	"
	Di-n-octylphthalate	38.9	J/None	"
	Benzidine	33.5	J/None	"
06/13/08 08:16 G-5973 (opening ccv)	Di-n-octylphthalate	36.1	J/None	J8K71 -> J8K73 J8K79 -> J8K81
06/13/08 18:54 G-5973 (opening ccv)	Hexachlorocyclopentadiene	-39.1	J/UJ	J8K30, J8K70DL J8K71DL
	4,6-Dinitro-2-methylphenol	-36.0	J/UJ	"
	Di-n-octylphthalate	37.4	J/None	"

BREMERTON-012981

"SIM"

Date/Time of Analysis/ Inst.	Compound	%D	Qualifier Detect/Non-detect	Associated Samples
06/15/08 00:20 G-5973 (opening ccv)	Dibenzo(a,h)anthracene	36.5	J/None	J8K31 -> J8K32 J8K63 -> J8K64 J8K70
06/15/08 12:38 G-5973 (opening ccv)	Dibenzo(a,h)anthracene	30.8	J/None	J8K33 -> J8K35 J8K30, J8K81 J8K65 -> J8K66 J8K91
06/15/08 23:11 G-5973 (opening ccv)	Acenaphthylene	29.9	J/None	J8K68 -> J8K69 J8K71 -> J8K73 J8K70DL,J8K71DL J8K79 -> J8K80

VOC DMCs (Soil)	Recovery Limits (%)	VOC DMCs (Soil)	Recovery Limits (%)
Vinyl Chloride-d3 (VCL)	68-122	1,2-Dichloropropane-d6 (DPA)	74-124
Chloroethane-d5 (CLA)	61-130	Toluene-d8 (TOL)	78-121
1,1-Dichloroethene-d2 (DCE)	45-132	Trans-1,3-Dichloropropene-d4 (TDP)	72-130
2-Butanone-d5 (BUT)	20-182	2-Hexanone-d5 (HEX)	17-184
Chloroform-d (CLF)	72-123	1,4-Dioxane-d8 (DXE)	50-150
1,2-Dichloroethane-d4 (DCA)	79-122	1,1,2,2-Tetrachloroethane-d2 (TCA)	56-161
Benzene-d6 (BEN)	80-121	1,2-Dichlorobenzene-d4 (DCZ)	70-131

All of the volatile surrogate recoveries met the applicable recovery criteria with exception of the following:

All of the SVOC/SIM surrogate recoveries met the applicable recovery criteria with exception of the following:

"SVOC / SIM"

Sample	DMC	%Recovery	Qualification Detects/Non-detects	Associated VOCs
J8K68	4MP	0	J/UJ	2-Methylphenol, 4-Methylphenol, 2,4-Dimethylphenol
	NBZ	195	J/None	Acetophenone, N-Nitroso-di-n-propylamine, Hexachloroethane, Nitrobenzene, 2,6-Dinitrotoluene, 2,4-Dinitrotoluene, N-Nitrosodiphenylamine
	2NP	1	J/UJ	Isophorone, 2-Nitrophenol
	DCP	4	J/UJ	2,4-Dichlorophenol, Hexachlorobutadiene, 4-Chloro-3-methylphenol, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 1,2,4,5-Tetrachlorobenzene, Pentachlorophenol, 2,3,4,6-Tetrachlorophenol
	4CA	0	J/UJ	4-Chloroaniline, Hexachlorocyclopentadiene, 3,3'-Dichlorobenzidine
	DMP	2	J/UJ	Caprolactam, 1,1'-Biphenyl, Dimethylphthalate, Diethylphthalate, Di-n-butylphthalate, Butylbenzylphthalate, bis(2-Ethylhexyl) phthalate, Di-n-octylphthalate
	ACY	4	J/UJ	Naphthalene, 2-Methylnaphthalene, 2-Chloronaphthalene, Acenaphthylene, Acenaphthene
	4NP	0	J/UJ	2-Nitroaniline, 3-Nitroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, 4-Nitroaniline
	FLR	7	J/UJ	Dibenzofuran, Fluorene, 4-Chlorophenyl-phenylether, 4-Bromophenyl-phenyl ether, Carbazole
	PYR	10	J/UJ	Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene
	BAP	24	J/UJ	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno91,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene
J8K69	PHL	10	J/UJ	Benzaldehyde, Phenol
	BCE	9	J/UJ	Bis-(2-Chloroethyl) ether, 2,2'-oxybis(1-Chloropropane), bis(2-Chloroethoxy) methane

"VOC"

Sample	DMC	%Recovery	Qualification Detects/Non-detects	Associated VOCs
J8K66	VCL	52	J/UJ	Vinyl Chloride
J8K79	DCA	141	J/None	Trichlorofluoromethane, 1,1-Dichloroethene, 1,1,2-Trichloro-1,2,2-trifluoroethane, Methyl Acetate, Methylene Chloride, Methyl-tert-butyl ether, 1,1,1-Trichloroethane, Carbon tetrachloride, 1,2-Dibromoethane, 1,2-Dichloroethane
J8K91	DCA	126	J/None	"
J8K30	DCA	128	J/None	"
J8K33	DCA	126	J/None	"
J8K34	DCA	129	J/None	"
J8K35	DCA	131	J/None	"

"SVOC"

SVOC DMCs (Soil)	Recovery Limits (%)	SVOC DMCs (Soil)	Recovery Limits (%)
Phenol-d5 (PHL)	17-103	Dimethylphthalate-d6 (DMP)	43-111
Bis-(2-chloroethyl) ether-d8 (BCE)	12-98	Acenapthylene-d8 (ACY)	20-97
2-chlorophenol-d4 (2CP)	13-101	4-Nitrophenol-d4 (4NP)	16-166
4-Methylphenol-d8 (4MP)	8-100	Fluorene-d10 (FLR)	40-108
Nitrobenzene-d5 (NBZ)	16-103	4,6-Dinitro-2-methylphenol-d2 (NMP)	1-121
2-Nitrophenol-d4 (2NP)	16-104	Anthracene-d10 (ANC)	22-98
2,4-Dichlorophenol-d3 (DCP)	23-104	Pyrene-d10 (PYR)	51-120
4-chloroaniline-d4 (4CA)	1-145	Benzo(a)pyrene-d12 (BAP)	43-111
Fluoranthene-d10 (FLN)#	50-150	2-Methylnaphthalene-d10 (2MN)#	50-150

# denotes SVOC-SIM surrogates

BREMERTON-012984

	2CP	11	J/UJ	2-Chlorophenol
	NBZ	12	J/UJ	Acetophenone, N-Nitroso-di-n-propylamine, Hexachloroethane, Nitrobenzene, 2,6-Dinitrotoluene, 2,4-Dinitrotoluene, N-Nitrosodiphenylamine
	2NP	10	J/UJ	Isophorone, 2-Nitrophenol
	DCP	12	J/UJ	2,4-Dichlorophenol, Hexachlorobutadiene, 4-Chloro-3-methylphenol, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 1,2,4,5-Tetrachlorobenzene, Pentachlorophenol, 2,3,4,6-Tetrachlorophenol
	DMP	10	J/UJ	Caprolactam, 1,1'-Biphenyl, Dimethylphthalate, Diethylphthalate, Di-n-butylphthalate, Butylbenzylphthalate, bis(2-Ethylhexyl) phthalate, Di-n-octylphthalate
	ACY	10	J/UJ	Naphthalene, 2-Methylnaphthalene, 2-Chloronaphthalene, Acenaphthylene, Acenaphthene
	FLR	12	J/UJ	Dibenzofuran, Fluorene, 4-Chlorophenyl-phenylether, 4-Bromophenyl-phenyl ether, Carbazole
	ANC	9	J/UJ	Hexachlorobenzene, Atrazine, Phenanthrene, Anthracene
J8K68 (SIM)	FLN	0	J/UJ	Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluroranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene
	2MN	0	J/UJ	Naphthalene, 2-Methylnaphthalene, Acenapthylene, Acenaphthene, Fluorene, Pentachlorophenol, Phenanthrene, Anthracene
J8K69 (SIM)	FLN	0	J/UJ	Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluroranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene
	2MN	2500	J/None	Naphthalene, 2-Methylnaphthalene, Acenapthylene, Acenaphthene, Fluorene, Pentachlorophenol, Phenanthrene, Anthracene
J8K73 (SIM)	FLN	2	J/UJ	Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluroranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

Internal Standards

SVOC

The acceptance criteria for internal standards (IS) are +/- 30 seconds for retention time (RT) shifts and -50% to 200% of the IS area as compared to the IS RT and area of the daily continuing calibration standard. All of the results met the IS area and RT shift criteria with exceptions of the following:

- J8K33 - Internal Standard #6 was higher than the QC limits
- J8K68 - Internal Standards #3, 4, 5, 6 were higher than the QC limits
- J8K69 - Internal Standards #4 & 5 were higher than the QC limits
- J8K79 - Internal Standards #1, 2, 3, 4, 5 were lower than the QC limits

The corresponding compounds were qualified as J/None. They are as follows:

- J8K33
  For IS #6 (Perylene-d12)
  Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

- J8K68
  For IS#3 (Acenaphthene-d10)
  Hexachlorocyclopentadiene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 2,3,4,6-Tetrachlorophenol, 1,1'-Biphenyl, 2-Chloronaphthalene, 2-Nitroaniline, Dimethylphthalate, Acenaphthylene, 3-Nitroaniline, Acenaphthylene, 3-Nitroaniline, Acenaphthene, 2,4-Dinitrophenol, 4-Nitrophenol, Dibenzofuran, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 1,2,4,5-Tetrachlorobenzene, Diethylphthalate, 4-Chlorophenyl-phenylether, Fluorene, 4-Nitroaniline

  For IS #4 (Phenanthrene-d10)
  4,6-Dinitro-2-methylphenol, N-Nitrosodiphenylamine, 4-Bromophenyl-phenylether, Hexachlorobenzene, Atrazine, Pentachlorophenol, Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate, Fluoranthene

  For IS #5 (Chrysene-d12)
  Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Bis(2-ethylhexyl) phthalate, Chrysene

  For IS #6 (Perylene-d12)
  Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

- J8K69
  For IS#4 (Phenanthrene-d10)

4,6-Dinitro-2-methylphenol, N-Nitrosodiphenylamine, 4-Bromophenyl-phenylether, Hexachlorobenzene, Atrazine, Pentachlorophenol, Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate, Fluoranthene

For IS#5 (Chrysene-d12)
Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Bis(2-ethylhexyl) phthalate, Chrysene

The corresponding compounds were qualified as J/UJ. They are as follows:

- J8K79
  For IS#1 (1,4-Dichlorobenzene-d4)
  Benzaldehyde, Phenol, Bis(2-chloroethyl) ether, 2-Chlorophenol, 2-Methylphenol, 2,2'-oxybis-(1-chloro-propane), Acetophenone, 4-Methylphenol, N-Nitroso-di-n-propylamine, Hexachloroethane

  For IS#2 (Naphthalene-d8)
  Nitrobenzene, Isophorone, 2-Nitrophenol, 2,4-Dimethylphenol, Bis(2-chloroethoxy)methane, 2,4-Dichlorophenol, 4-Chloroaniline, Hexachlorobutadiene, Caprolactam, 4-chloro-3-methylphenol, 2-Methylnaphthalene, Naphthalene

  For IS#3 (Acenaphthene-d10)
  Hexachlorocyclopentadiene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 2,3,4,6-Tetrachlorophenol, 1,1'-Biphenyl, 2-Chloronaphthalene, 2-Nitroaniline, Dimethylphthalate, Acenaphthylene, 3-Nitroaniline, Acenaphthylene, 3-Nitroaniline, Acenaphthene, 2,4-Dinitrophenol, 4-Nitrophenol, Dibenzofuran, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 1,2,4,5-Tetrachlorobenzene, Diethylphthalate, 4-Chlorophenyl-phenylether, Fluorene, 4-Nitroaniline

  For IS#4 (Phenanthrene-d10)
  4,6-Dinitro-2-methylphenol, N-Nitrosodiphenylamine, 4-Bromophenyl-phenylether, Hexachlorobenzene, Atrazine, Pentachlorophenol, Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate, Fluoranthene

  For IS#5 (Chrysene-d12)
  Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Bis(2-ethylhexyl) phthalate, Chrysene

  For IS #6 (Perylene-d12)
  Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

SIM

The acceptance criteria for internal standards (IS) are +/- 30 seconds for retention time (RT) shifts and -50% to +200% of the IS area as compared to the IS RT and area of the daily continuing calibration standard. All of the results met the IS area and RT shift criteria with exceptions of the following:

- J8K64 - Internal Standards #5 & 6 were lower than the QC limits
- J8K73 - Internal Standard #4 was higher than the QC limits

The corresponding compounds were qualified as J/None. They are as follows:

- J8K73
  For Internal Standard #4 (Phenanthrene-d10)
  4,6-Dinitro-2-methylphenol, N-Nitrosodiphenylamine, 4-Bromophenyl-phenylether, Hexachlorobenzene, Atrazine, Pentachlorophenol, Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate, Fluoranthene

The corresponding compounds were qualified as J/UJ. They are as follows:

- J8K64
  For Internal Standard #5 (Chrysene-d12)
  Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Bis(2-ethylhexyl) phthalate, Chrysene

  For Internal Standard #6 (Perylene-d12)
  Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

The PAH data were reported for different samples as seen in the tables below:

Compound	J8K63	J8K64	J8K65	J8K66	J8K68	J8K69	J8K70	J8K71	J8K72	J8K73
Naphthalene	SIM	SIM	SIM	SIM	FullD2	Full D.	Full D.	Full D.	SIM	SIM
2-Methylnaphthalene	SIM	SIM	SIM	SIM	FullD2	Full S.	Full S.	Full S.	SIM	SIM
Acenaphthylene	SIM	SIM	SIM	SIM	Full D.	Full D.	Full S.	SIM	SIM	SIM
Acenaphthene	SIM	SIM	SIM	SIM	Full S.	Full S.	SIM	SIM	SIM	SIM
Fluorene	SIM	SIM	SIM	SIM	Full D.	Full S.	Full S.	SIM	SIM	SIM
Pentachlorophenol	SIM	SIM	SIM	SIM	Full S.	Full S.	SIM	SIM	SIM	SIM
Phenanthrene	SIM	SIM	SIM	SIM	FullD2	Full D.	Full S.	SIM	SIM	SIM
Anthracene	SIM	SIM	SIM	SIM	Full S.	Full D.	Full S.	SIM	SIM	SIM
Fluoranthene	SIM	SIM	SIM	SIM	Full D.	Full D.	Full S.	SIM	SIM	SIM
Pyrene	SIM	SIM	SIM	SIM	Full D.	Full D.	Full S.	SIM	SIM	SIM
Benzo(a)anthracene	SIM	SIM	SIM	SIM	Full D.	Full D.	SIM+	SIM	SIM	SIM
Chrysene	SIM	SIM	SIM	SIM	Full D.	Full D.	SIM+	SIM	SIM	SIM
Benzo(b)fluoranthene	SIM	SIM	SIM	SIM	Full D.	Full D.	SIM+	SIM	SIM	SIM
Benzo(k)fluoranthene	SIM	SIM	SIM	SIM	Full D.	Full D.	SIM+	SIM	SIM	SIM

Benzo(a)pyrene	SIM	SIM	SIM	SIM	Full D.	FullD2	SIM+	SIM	SIM	SIM
Indeno(1,2,3-cd)pyrene	SIM	SIM	SIM	SIM	Full D.	FullD2	SIM	SIM	SIM	SIM
Dibenzo(a,h)anthracene	SIM	SIM	SIM	SIM	Full D.	Full D.	SIM	SIM	SIM	SIM
Benzo(g,h,i)perylene	SIM	SIM	SIM	SIM	Full D.	FullD2	SIM	SIM	SIM	SIM
Compound	**J8K79**	**J8K80**	**J8K81**	**J8K91**	**J8K30**	**J8K31**	**J8K32**	**J8K33**	**J8K34**	**J8K35**
Naphthalene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
2-Methylnaphthalene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Acenaphthylene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Acenaphthene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Fluorene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Pentachlorophenol	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Phenanthrene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Anthracene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Fluoranthene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Pyrene	SIM	SIM	SIM	Full S.	SIM	SIM	SIM	SIM	SIM	SIM
Benzo(a)anthracene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Chrysene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Benzo(b)fluoranthene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Benzo(k)fluoranthene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Benzo(a)pyrene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Indeno(1,2,3-cd)pyrene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM
Dibenzo(a,h)anthracene	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM	SIM

(Note: + indicates the results reported from "**SIM Dilution Runs**";
Full S. indicates the results reported from **"Full Scan Runs"**;
Full D. indicates the results reported from **"Full Scan Dilutions"**
Full D2 indicates the results reported from "**Full Scan Dilution #2**").
The rest of the SVOC data was obtained through full scan runs.

The data, as qualified, can be used for all purposes.

Data Qualifiers		
	U	The analyte was not detected at or above the reported result.
	J	The analyte was positively identified. The associated numerical result is an estimate.
	UJ	The analyte was not detected at or above the reported estimated result. The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.
	R	The data are unusable for all purposes.
	N	There is evidence the analyte is present in this sample.
	JN	There is evidence that the analyte is present. The associated numerical result is an estimate.

BREMERTON-012989

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K30

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.02

Sample wt/vol: 5.000 (g/mL) G Lab File ID: B16461

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 13 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.1	U
74-87-3	Chloromethane	1.1	U
75-01-4	Vinyl chloride	1.1	U
74-83-9	Bromomethane	1.1	U
75-00-3	Chloroethane	1.1	U
75-69-4	Trichlorofluoromethane	1.1	U
75-35-4	1,1-Dichloroethene	1.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U
67-64-1	Acetone	5.7	U
75-15-0	Carbon disulfide	1.1	U
79-20-9	Methyl acetate	1.1	U
75-09-2	Methylene chloride	2.8	BU
156-60-5	trans-1,2-Dichloroethene	1.1	U
1634-04-4	Methyl tert-butyl ether	1.1	U
75-34-3	1,1-Dichloroethane	1.1	U
156-59-2	cis-1,2-Dichloroethene	1.1	U
78-93-3	2-Butanone	5.7	U
74-97-5	Bromochloromethane	1.1	U
67-66-3	Chloroform	1.1	U
71-55-6	1,1,1-Trichloroethane	1.1	U
110-82-7	Cyclohexane	1.1	U
56-23-5	Carbon tetrachloride	1.1	U
71-43-2	Benzene	1.1	U
107-06-2	1,2-Dichloroethane	1.1	U
123-91-1	1,4-Dioxane	110	U
79-01-6	Trichloroethene	1.1	U
108-87-2	Methylcyclohexane	1.1	U
78-87-5	1,2-Dichloropropane	1.1	U
75-27-4	Bromodichloromethane	1.1	U
10061-01-5	cis-1,3-Dichloropropene	1.1	U
108-10-1	4-Methyl-2-pentanone	5.7	U
108-88-3	Toluene	1.1	U
10061-02-6	trans-1,3-Dichloropropene	1.1	U
79-00-5	1,1,2-Trichloroethane	1.1	U

8/22/08

BREMERTON-012990

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K30

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.02

Sample wt/vol: 5.000 (g/mL) G Lab File ID: B16461

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 13 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.1	U
591-78-6	2-Hexanone	5.7	U
124-48-1	Dibromochloromethane	1.1	U
106-93-4	1,2-Dibromoethane	1.1	U
108-90-7	Chlorobenzene	1.1	U
100-41-4	Ethylbenzene	1.1	U
95-47-6	o-Xylene	1.1	U
179601-23-1	m,p-Xylene	1.1	U
100-42-5	Styrene	1.1	U
75-25-2	Bromoform	1.1	U
98-82-8	Isopropylbenzene	1.1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
541-73-1	1,3-Dichlorobenzene	1.1	U
106-46-7	1,4-Dichlorobenzene	1.1	U
95-50-1	1,2-Dichlorobenzene	1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	1.1	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U
87-68-3	Hexachlorobutadiene	1.1	U
67-72-1	Hexachloroethane	2.3	U
91-20-3	Naphthalene	1.1	U
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U

8/22/08

BREMERTON-012991

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K30

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.02

Sample wt/vol: 5.000 (g/mL) G Lab File ID: B16461

Level: (TRACE or LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 13 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000109-99-9	Furan, tetrahydro-	6.72	5.9	NJ
02		Unknown-01	11.11	6.9	JN
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	9.3	JN

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

5/22/08

00043

Report All Except PAH's

1D - FORM I SV-1 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K30

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.02

Sample wt/vol: 100.0 (g/mL) G Lab File ID: G0896

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	23	U
108-95-2	Phenol	23	U
111-44-4	Bis(2-chloroethyl)ether	23	U
95-57-8	2-Chlorophenol	23	U
95-48-7	2-Methylphenol	23	U
108-60-1	2,2'-Oxybis(1-chloropropane)	23	U
98-86-2	Acetophenone	23	U
106-44-5	4-Methylphenol	23	U
621-64-7	N-Nitroso-di-n-propylamine	23	U
67-72-1	Hexachloroethane	23	U
98-95-3	Nitrobenzene	23	U
78-59-1	Isophorone	23	U
88-75-5	2-Nitrophenol	23	U
105-67-9	2,4-Dimethylphenol	23	U
111-91-1	Bis(2-chloroethoxy)methane	23	U
120-83-2	2,4-Dichlorophenol	23	U
91-20-3	Naphthalene	23	U
106-47-8	4-Chloroaniline	23	U
87-68-3	Hexachlorobutadiene	23	U
105-60-2	Caprolactam	23	U
59-50-7	4-Chloro-3-methylphenol	23	U
91-57-6	2-Methylnaphthalene	23	U
77-47-4	Hexachlorocyclopentadiene	57	UJ
88-06-2	2,4,6-Trichlorophenol	23	U
95-95-4	2,4,5-Trichlorophenol	23	U
92-52-4	1,1'-Biphenyl	23	U
91-58-7	2-Chloronaphthalene	23	U
88-74-4	2-Nitroaniline	46	U
131-11-3	Dimethylphthalate	23	U
606-20-2	2,6-Dinitrotoluene	23	U
208-96-8	Acenaphthylene	32	
99-09-2	3-Nitroaniline	46	U
83-32-9	Acenaphthene	23	U
51-28-5	2,4-Dinitrophenol	110	UJ
100-02-7	4-Nitrophenol	46	U
132-64-9	Dibenzofuran	23	U
121-14-2	2,4-Dinitrotoluene	23	U

8/22/08

BREMERTON-012993

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K30

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.02

Sample wt/vol: 100.0 (g/mL) G Lab File ID: G0896

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	23	U
86-73-7	Fluorene	23	U
7005-72-3	4-Chlorophenyl-phenylether	23	U
100-01-6	4-Nitroaniline	46	U
534-52-1	4,6-Dinitro-2-methylphenol	46	UJ
86-30-6	N-Nitrosodiphenylamine 1	23	U
95-94-3	1,2,4,5-Tetrachlorobenzene	23	U
101-55-3	4-Bromophenyl-phenylether	23	U
118-74-1	Hexachlorobenzene	23	U
1912-24-9	Atrazine	23	U
87-86-5	Pentachlorophenol	23	UJ
85-01-8	Phenanthrene	23	U
120-12-7	Anthracene	23	U
86-74-8	Carbazole	23	U
84-74-2	Di-n-buty phthalate	23	U
206-44-0	Fluoranthene	31	
129-00-0	Pyrene	39	
85-68-7	Butylbenzylphthalate	23	U
91-94-1	3,3'-Dichlorobenzidine	23	U
56-55-3	Benzo(a)anthracene	20	J Q
218-01-9	Chrysene	35	
117-81-7	Bis(2-ethylhexyl)phthalate	290	
117-84-0	Di-n-octylphthalate	23	U
205-99-2	Benzo(b)fluoranthene	23	J Q
207-08-9	Benzo(k)fluoranthene	55	
50-32-8	Benzo(a)pyrene	68	
193-39-5	Indeno(1,2,3-cd)pyrene	55	
53-70-3	Dibenzo(a,h)anthracene	20	J Q
191-24-2	Benzo(g,h,i)perylene	67	
58-90-2	2,3,4,6-Tetrachlorophenol	23	U
92-87-5	Benzidine	23	U
95-50-1	1,2-Dichlorobenzene	23	U
106-46-7	1,4-Dichlorobenzene	23	U
541-73-1	1,3-Dichlorobenzene	23	U
62-75-9	N-Nitrosodimethylamine	23	U
95-63-6	1,2,4-Trimethylbenzene	23	U
108-67-8	1,3,5-Trimethylbenzene	23	U

1 Cannot be separated from Diphenylamine

8/22/08

BREMERTON-012994

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: J8K30

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.02

Sample wt/vol: 100.0 (g/mL) G Lab File ID: G0896

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.09	190	JN
02	022627-95-8	Fenchol, exo-	7.42	150	NJ
03		Unknown-02	10.28	200	JN
04		Unknown-03	14.90	87	JN
05	000084-74-2	Dibutyl phthalate	15.12	91	NJ
06		Unknown-04	15.23	140	JN
07		Unknown-05	15.35	97	J
08		Unknown-06	15.43	100	J
09		Unknown-07	15.50	120	J
10	002789-88-0	di-p-Tolylacetylene	15.59	210	NJ
11		Unknown-08	18.66	130	JN
12		Unknown-09	19.36	79	J
13		Unknown-10	19.50	73	J
14		Unknown-11	19.79	96	J
15		Unknown-12	19.99	100	J
16		Unknown-13	20.04	81	J
17		Unknown-14	20.22	74	J
18		Unknown-15	20.60	81	J
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	120	JN

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

01059

Report All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K30

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.02

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0956

Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.2	
91-57-6	2-Methylnaphthalene	1.1	U
208-96-8	Acenaphthylene	1.1	U
83-32-9	Acenaphthene	1.1	U
86-73-7	Fluorene	1.1	U
87-86-5	Pentachlorophenol	2.3	U
85-01-8	Phenanthrene	1.3	
120-12-7	Anthracene	1.1	U
206-44-0	Fluoranthene	2.3	
129-00-0	Pyrene	3.5	
56-55-3	Benzo(a)anthracene	1.5	
218-01-9	Chrysene	2.4	
205-99-2	Benzo(b)fluoranthene	1.1	U
207-08-9	Benzo(k)fluoranthene	1.4	
50-32-8	Benzo(a)pyrene	1.5	
193-39-5	Indeno(1,2,3-cd)pyrene	1.1	U
53-70-3	Dibenzo(a,h)anthracene	1.1	U
191-24-2	Benzo(g,h,i)perylene	1.1	U

1 Cannot be separated from Diphenylamine

8/22/08

02456

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K31

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.03

Sample wt/vol: 4.500 (g/mL) G Lab File ID: B16462

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 10 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.2	U
74-87-3	Chloromethane	1.2	U
75-01-4	Vinyl chloride	1.2	U
74-83-9	Bromomethane	1.2	U
75-00-3	Chloroethane	1.2	U
75-69-4	Trichlorofluoromethane	1.2	U
75-35-4	1,1-Dichloroethene	1.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U
67-64-1	Acetone	6.2	U
75-15-0	Carbon disulfide	1.2	U
79-20-9	Methyl acetate	1.2	U
75-09-2	Methylene chloride	2.7	BU
156-60-5	trans-1,2-Dichloroethene	1.2	U
1634-04-4	Methyl tert-butyl ether	1.2	U
75-34-3	1,1-Dichloroethane	1.2	U
156-59-2	cis-1,2-Dichloroethene	1.2	U
78-93-3	2-Butanone	6.2	U
74-97-5	Bromochloromethane	1.2	U
67-66-3	Chloroform	1.2	U
71-55-6	1,1,1-Trichloroethane	1.2	U
110-82-7	Cyclohexane	1.2	U
56-23-5	Carbon tetrachloride	1.2	U
71-43-2	Benzene	1.2	U
107-06-2	1,2-Dichloroethane	1.2	U
123-91-1	1,4-Dioxane	120	U
79-01-6	Trichloroethene	1.2	U
108-87-2	Methylcyclohexane	1.2	U
78-87-5	1,2-Dichloropropane	1.2	U
75-27-4	Bromodichloromethane	1.2	U
10061-01-5	cis-1,3-Dichloropropene	1.2	U
108-10-1	4-Methyl-2-pentanone	6.2	U
108-88-3	Toluene	1.2	U
10061-02-6	trans-1,3-Dichloropropene	1.2	U
79-00-5	1,1,2-Trichloroethane	1.2	U

8/22/08

SOM01.2 (6/2007)

BREMERTON-012997

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K31

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.03

Sample wt/vol: 4.500 (g/mL) G Lab File ID: B16462

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 10 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.2	U
591-78-6	2-Hexanone	6.2	U
124-48-1	Dibromochloromethane	1.2	U
106-93-4	1,2-Dibromoethane	1.2	U
108-90-7	Chlorobenzene	1.2	U
100-41-4	Ethylbenzene	1.2	U
95-47-6	o-Xylene	1.2	U
179601-23-1	m,p-Xylene	1.2	U
100-42-5	Styrene	1.2	U
75-25-2	Bromoform	1.2	U
98-82-8	Isopropylbenzene	1.2	U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	U
541-73-1	1,3-Dichlorobenzene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.2	U
120-82-1	1,2,4-Trichlorobenzene	6.2	U
87-61-6	1,2,3-Trichlorobenzene	6.2	U
87-68-3	Hexachlorobutadiene	1.2	U
67-72-1	Hexachloroethane	2.5	U
91-20-3	Naphthalene	1.2	U
630-20-6	1,1,1,2-Tetrachloroethane	1.2	U
96-18-4	1,2,3-Trichloropropane	1.2	U

8/22/08

BREMERTON-012998

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K31

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.03

Sample wt/vol: 4.500 (g/mL) G Lab File ID: B16462

Level: (TRACE or LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 10 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.06	4.9	JN
02		Unknown-02	11.11	6.5	JN
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	4.4	JN

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

Report All except PAH's

1D - FORM I SV-1 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K31

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.03

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0865

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 4.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	22	U
108-95-2	Phenol	22	U
111-44-4	Bis(2-chloroethyl)ether	22	U
95-57-8	2-Chlorophenol	22	U
95-48-7	2-Methylphenol	22	U
108-60-1	2,2'-Oxybis(1-chloropropane)	22	U
98-86-2	Acetophenone	22	U
106-44-5	4-Methylphenol	22	U
621-64-7	N-Nitroso-di-n-propylamine	22	U
67-72-1	Hexachloroethane	22	U
98-95-3	Nitrobenzene	22	U
78-59-1	Isophorone	22	U
88-75-5	2-Nitrophenol	22	U
105-67-9	2,4-Dimethylphenol	22	U
111-91-1	Bis(2-chloroethoxy)methane	22	U
120-83-2	2,4-Dichlorophenol	22	U
91-20-3	Naphthalene	22	U
106-47-8	4-Chloroaniline	22	U
87-68-3	Hexachlorobutadiene	22	U
105-60-2	Caprolactam	22	U
59-50-7	4-Chloro-3-methylphenol	22	U
91-57-6	2-Methylnaphthalene	22	U
77-47-4	Hexachlorocyclopentadiene	56	UJ
88-06-2	2,4,6-Trichlorophenol	22	U
95-95-4	2,4,5-Trichlorophenol	22	U
92-52-4	1,1'-Biphenyl	22	U
91-58-7	2-Chloronaphthalene	22	U
88-74-4	2-Nitroaniline	44	U
131-11-3	Dimethylphthalate	22	U
606-20-2	2,6-Dinitrotoluene	22	U
208-96-8	Acenaphthylene	22	U
99-09-2	3-Nitroaniline	44	U
83-32-9	Acenaphthene	22	U
51-28-5	2,4-Dinitrophenol	110	UJ
100-02-7	4-Nitrophenol	44	U
132-64-9	Dibenzofuran	22	U
121-14-2	2,4-Dinitrotoluene	22	U

8/22/08

BREMERTON-013000

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K31

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.03

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0865

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 4.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	22	U
86-73-7	Fluorene	22	U
7005-72-3	4-Chlorophenyl-phenylether	22	U
100-01-6	4-Nitroaniline	44	U
534-52-1	4,6-Dinitro-2-methylphenol	44	U
86-30-6	N-Nitrosodiphenylamine 1	22	U
95-94-3	1,2,4,5-Tetrachlorobenzene	22	U
101-55-3	4-Bromophenyl-phenylether	22	U
118-74-1	Hexachlorobenzene	22	U
1912-24-9	Atrazine	22	U
87-86-5	Pentachlorophenol	22	UJ
85-01-8	Phenanthrene	22	U
120-12-7	Anthracene	22	U
86-74-8	Carbazole	22	U
84-74-2	Di-n-butylphthalate	13	JQ
206-44-0	Fluoranthene	22	U
129-00-0	Pyrene	22	U
85-68-7	Butylbenzylphthalate	22	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	22	U
218-01-9	Chrysene	22	U
117-81-7	Bis(2-ethylhexyl)phthalate	120	
117-84-0	Di-n-octylphthalate	22	U
205-99-2	Benzo(b)fluoranthene	22	U
207-08-9	Benzo(k)fluoranthene	22	U
50-32-8	Benzo(a)pyrene	22	U
193-39-5	Indeno(1,2,3-cd)pyrene	22	U
53-70-3	Dibenzo(a,h)anthracene	22	U
191-24-2	Benzo(g,h,i)perylene	22	U
58-90-2	2,3,4,6-Tetrachlorophenol	22	U
92-87-5	Benzidine	22	U
95-50-1	1,2-Dichlorobenzene	22	U
106-46-7	1,4-Dichlorobenzene	22	U
541-73-1	1,3-Dichlorobenzene	22	U
62-75-9	N-Nitrosodimethylamine	22	U
95-63-6	1,2,4-Trimethylbenzene	22	U
108-67-8	1,3,5-Trimethylbenzene	22	U

1 Cannot be separated from Diphenylamine

8/22/08

BREMERTON-013001

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: J8K31

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.03

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0865

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 4.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.27	51	JBN
02		Unknown-02	2.31	62	J
03		Unknown-03	3.09	180	J
04		Unknown-04	4.92	53	J
05		Unknown-05	8.13	68	J
06		Unknown-06	8.61	80	J
07		Unknown-07	10.17	51	J
08	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.28	270	NJ
09	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.59	74	NJ
10	007683-64-9	Squalene	18.24	43	NJ
11		Unknown-08	19.35	53	JN
12		Unknown-09	20.22	52	J
13		Unknown-10	21.33	59	J
14		Unknown-11	22.74	53	J
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

8/22/08

01129

Report All PAH's

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K31

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.03

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0943

Extraction: (Type) SONC

% Moisture: 10 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 4.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	0.91	J Q
91-57-6	2-Methylnaphthalene	1.1	U
208-96-8	Acenaphthylene	1.1	U
83-32-9	Acenaphthene	1.1	U
86-73-7	Fluorene	1.1	U
87-86-5	Pentachlorophenol	0.96	J Q
85-01-8	Phenanthrene	1.1	U
120-12-7	Anthracene	1.1	U
206-44-0	Fluoranthene	1.1	U
129-00-0	Pyrene	1.1	U
56-55-3	Benzo(a)anthracene	1.1	U
218-01-9	Chrysene	1.1	U
205-99-2	Benzo(b)fluoranthene	1.1	U
207-08-9	Benzo(k)fluoranthene	1.1	U
50-32-8	Benzo(a)pyrene	1.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.66	J Q
53-70-3	Dibenzo(a,h)anthracene	1.1	U
191-24-2	Benzo(g,h,i)perylene	0.99	J Q

1 Cannot be separated from Diphenylamine

8/22/08

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K32

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.04

Sample wt/vol: 3.900 (g/mL) G Lab File ID: B16463

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 6.0 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodiflucromethane	1.4	U
74-87-3	Chloromethane	1.4	U
75-01-4	Vinyl chloride	1.4	U
74-83-9	Bromomethane	1.4	U
75-00-3	Chloroethane	1.4	U
75-69-4	Trichlorofluoromethane	1.4	U
75-35-4	1,1-Dichloroethene	1.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.4	U
67-64-1	Acetone	6.8	U
75-15-0	Carbon disulfide	1.4	U
79-20-9	Methyl acetate	1.4	U
75-09-2	Methylene chloride	1.6	BU
156-60-5	trans-1,2-Dichloroethene	1.4	U
1634-04-4	Methyl tert-butyl ether	1.4	U
75-34-3	1,1-Dichloroethane	1.4	U
156-59-2	cis-1,2-Dichloroethene	1.4	U
78-93-3	2-Butanone	6.8	U
74-97-5	Bromochloromethane	1.4	U
67-66-3	Chloroform	1.4	U
71-55-6	1,1,1-Trichloroethane	1.4	U
110-82-7	Cyclohexane	1.4	U
56-23-5	Carbon tetrachloride	1.4	U
71-43-2	Benzene	1.4	U
107-06-2	1,2-Dichloroethane	1.4	U
123-91-1	1,4-Dioxane	140	U
79-01-6	Trichloroethene	1.4	U
108-87-2	Methylcyclohexane	1.4	U
78-87-5	1,2-Dichloropropane	1.4	U
75-27-4	Bromodichloromethane	1.4	U
10061-01-5	cis-1,3-Dichloropropene	1.4	U
108-10-1	4-Methyl-2-pentanone	6.8	U
108-88-3	Toluene	1.4	U
10061-02-6	trans-1,3-Dichloropropene	1.4	U
79-00-5	1,1,2-Trichloroethane	1.4	U

8/22/08

BREMERTON-013004

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K32

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.04

Sample wt/vol: 3.900 (g/mL) G Lab File ID: B16463

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 6.0 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.4	U
591-78-6	2-Hexanone	6.8	U
124-48-1	Dibromochloromethane	1.4	U
106-93-4	1,2-Dibromoethane	1.4	U
108-90-7	Chlorobenzene	1.4	U
100-41-4	Ethylbenzene	1.4	U
95-47-6	o-Xylene	1.4	U
179601-23-1	m,p-Xylene	1.4	U
100-42-5	Styrene	1.4	U
75-25-2	Bromoform	1.4	U
98-82-8	Isopropylbenzene	1.4	U
79-34-5	1,1,2,2-Tetrachloroethane	1.4	U
541-73-1	1,3-Dichlorobenzene	1.4	U
106-46-7	1,4-Dichlorobenzene	1.4	U
95-50-1	1,2-Dichlorobenzene	1.4	U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	U
120-82-1	1,2,4-Trichlorobenzene	6.8	U
87-61-6	1,2,3-Trichlorobenzene	6.8	U
87-68-3	Hexachlorobutadiene	1.4	U
67-72-1	Hexachloroethane	2.7	U
91-20-3	Naphthalene	1.4	U
630-20-6	1,1,1,2-Tetrachloroethane	1.4	U
96-18-4	1,2,3-Trichloropropane	1.4	U

8/22/08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K32

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.04

Sample wt/vol: 3.900 (g/mL) G Lab File ID: B16463

Level: (TRACE or LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 6.0 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000109-99-9	Furan, tetrahydro-	6.72	6.2	NJ
02		Unknown-01	11.14	6.6	JN
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

Report All except PAHs

1D - FORM I SV-1 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K32

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.04

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G0859

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6.0 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	21	U
108-95-2	Phenol	21	U
111-44-4	Bis(2-chloroethyl)ether	21	U
95-57-8	2-Chlorophenol	21	U
95-48-7	2-Methylphenol	21	U
108-60-1	2,2'-Oxybis(1-chloropropane)	21	U
98-86-2	Acetophenone	21	U
106-44-5	4-Methylphenol	21	U
621-64-7	N-Nitroso-di-n-propylamine	21	U
67-72-1	Hexachloroethane	21	U
98-95-3	Nitrobenzene	21	U
78-59-1	Isophorone	21	U
88-75-5	2-Nitrophenol	21	U
105-67-9	2,4-Dimethylphenol	21	U
111-91-1	Bis(2-chloroethoxy)methane	21	U
120-83-2	2,4-Dichlorophenol	21	U
91-20-3	Naphthalene	21	U
106-47-8	4-Chloroaniline	21	U
87-68-3	Hexachlorobutadiene	21	U
105-60-2	Caprolactam	21	U
59-50-7	4-Chloro-3-methylphenol	21	U
91-57-6	2-Methylnaphthalene	21	U
77-47-4	Hexachlorocyclopentadiene	53	UJ
88-06-2	2,4,6-Trichlorophenol	21	U
95-95-4	2,4,5-Trichlorophenol	21	U
92-52-4	1,1'-Biphenyl	21	U
91-58-7	2-Chloronaphthalene	21	U
88-74-4	2-Nitroaniline	42	U
131-11-3	Dimethylphthalate	21	U
606-20-2	2,6-Dinitrotoluene	21	U
208-96-8	Acenaphthylene	21	U
99-09-2	3-Nitroaniline	42	U
83-32-9	Acenaphthene	21	U
51-28-5	2,4-Dinitrophenol	110	UJ
100-02-7	4-Nitrophenol	42	U
132-64-9	Dibenzofuran	21	U
121-14-2	2,4-Dinitrotoluene	21	U

6/22/08

SOM01.2 (6/2007) 01156

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K32

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.04

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G0859

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6.0 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	21	U
86-73-7	Fluorene	21	U
7005-72-3	4-Chlorophenyl-phenylether	21	U
100-01-6	4-Nitroaniline	42	U
534-52-1	4,6-Dinitro-2-methylphenol	42	U
86-30-6	N-Nitrosodiphenylamine 1	21	U
95-94-3	1,2,4,5-Tetrachlorobenzene	21	U
101-55-3	4-Bromophenyl-phenylether	21	U
118-74-1	Hexachlorobenzene	21	U
1912-24-9	Atrazine	21	U
87-86-5	Pentachlorophenol	21	UJ
85-01-8	Phenanthrene	21	U
120-12-7	Anthracene	21	U
86-74-8	Carbazole	21	U
84-74-2	Di-n-butylphthalate	21	U
206-44-0	Fluoranthene	21	U
129-00-0	Pyrene	21	U
85-68-7	Butylbenzylphthalate	19	JQ
91-94-1	3,3'-Dichlorobenzidine	21	U
56-55-3	Benzo(a)anthracene	21	U
218-01-9	Chrysene	21	U
117-81-7	Bis(2-ethylhexyl)phthalate	150	
117-84-0	Di-n-octylphthalate	21	U
205-99-2	Benzo(b)fluoranthene	21	U
207-08-9	Benzo(k)fluoranthene	21	U
50-32-8	Benzo(a)pyrene	21	U
193-39-5	Indeno(1,2,3-cd)pyrene	21	U
53-70-3	Dibenzo(a,h)anthracene	21	U
191-24-2	Benzo(g,h,i)perylene	21	U
58-90-2	2,3,4,6-Tetrachlorophenol	21	U
92-87-5	Benzidine	21	U
95-50-1	1,2-Dichlorobenzene	21	U
106-46-7	1,4-Dichlorobenzene	21	U
541-73-1	1,3-Dichlorobenzene	21	U
62-75-9	N-Nitrosodimethylamine	21	U
95-63-6	1,2,4-Trimethylbenzene	21	U
108-67-8	1,3,5-Trimethylbenzene	21	U

1 Cannot be separated from Diphenylamine

8/22/08

BREMERTON-013008

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K32

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.04

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G0859

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 6.0 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.31	70	JN
02		Unknown-02	2.77	66	J
03		Unknown-03	3.10	160	J
04		Unknown-04	4.92	55	J
05		Unknown-05	8.12	67	J
06		Unknown-06	10.10	54	J
07	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.28	190	NJ
08		Unknown-07	12.64	55	JN
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667962	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

8/22/08

81158

Report All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K32

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.04

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G0944

Extraction: (Type) SONC

% Moisture: 6.0 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	0.59	JQ
91-57-6	2-Methylnaphthalene	1.1	U
208-96-8	Acenaphthylene	1.1	U
83-32-9	Acenaphthene	1.1	U
86-73-7	Fluorene	1.1	U
87-86-5	Pentachlorophenol	2.1	U
85-01-8	Phenanthrene	1.1	U
120-12-7	Anthracene	1.1	U
206-44-0	Fluoranthene	1.1	U
129-00-0	Pyrene	1.1	U
56-55-3	Benzo(a)anthracene	1.1	U
218-01-9	Chrysene	1.1	U
205-99-2	Benzo(b)fluoranthene	1.1	U
207-08-9	Benzo(k)fluoranthene	1.1	U
50-32-8	Benzo(a)pyrene	1.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.1	U
53-70-3	Dibenzo(a,h)anthracene	1.1	U
191-24-2	Benzo(g,h,i)perylene	0.71	JQ

[1] Cannot be separated from Diphenylamine

8/22/08

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K33

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.05

Sample wt/vol: 4.600 (g/mL) G Lab File ID: B16464

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 15 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.3	U
74-87-3	Chloromethane	1.3	U
75-01-4	Vinyl chloride	1.3	U
74-83-9	Bromomethane	1.3	U
75-00-3	Chloroethane	1.3	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	1.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	U
67-64-1	Acetone	17	
75-15-0	Carbon disulfide	1.3	U
79-20-9	Methyl acetate	1.3	U
75-09-2	Methylene chloride	1.7	B U
156-60-5	trans-1,2-Dichloroethene	1.3	U
1634-04-4	Methyl tert-butyl ether	1.3	U
75-34-3	1,1-Dichloroethane	1.3	U
156-59-2	cis-1,2-Dichloroethene	1.3	U
78-93-3	2-Butanone	6.4	U
74-97-5	Bromochloromethane	1.3	U
67-66-3	Chloroform	1.3	U
71-55-6	1,1,1-Trichloroethane	1.3	U
110-82-7	Cyclohexane	1.3	U
56-23-5	Carbon tetrachloride	1.3	U
71-43-2	Benzene	1.3	U
107-06-2	1,2-Dichloroethane	1.3	U
123-91-1	1,4-Dioxane	130	U
79-01-6	Trichloroethene	1.3	U
108-87-2	Methylcyclohexane	1.3	U
78-87-5	1,2-Dichloropropane	1.3	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	1.3	U
108-10-1	4-Methyl-2-pentanone	6.4	U
108-88-3	Toluene	1.3	U
10061-02-6	trans-1,3-Dichloropropene	1.3	U
79-00-5	1,1,2-Trichloroethane	1.3	U

8/22/08

SOM01.2 (6/2007) 16188

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K33

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.05

Sample wt/vol: 4.600 (g/mL) G Lab File ID: B16464

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 15 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.3	U
591-78-6	2-Hexanone	6.4	U
124-48-1	Dibromochloromethane	1.3	U
106-93-4	1,2-Dibromoethane	1.3	U
108-90-7	Chlorobenzene	1.3	U
100-41-4	Ethylbenzene	1.3	U
95-47-6	o-Xylene	1.3	U
179601-23-1	m,p-Xylene	1.3	U
100-42-5	Styrene	1.3	U
75-25-2	Bromoform	1.3	U
98-82-8	Isopropylbenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	U
541-73-1	1,3-Dichlorobenzene	1.3	U
106-46-7	1,4-Dichlorobenzene	1.3	U
95-50-1	1,2-Dichlorobenzene	1.3	U
96-12-8	1,2-Dibromo-3-chloropropane	1.3	U
120-82-1	1,2,4-Trichlorobenzene	6.4	U
87-61-6	1,2,3-Trichlorobenzene	6.4	U
87-68-3	Hexachlorobutadiene	1.3	U
67-72-1	Hexachloroethane	2.6	U
91-20-3	Naphthalene	1.3	U
630-20-6	1,1,1,2-Tetrachloroethane	1.3	U
96-18-4	1,2,3-Trichloropropane	1.3	U

8/22/08

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K33

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.05

Sample wt/vol: 4.600 (g/mL) G Lab File ID: B16464

Level: (TRACE or LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 15 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.11	6.5	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

Report All Except PAH's

1D - FORM I SV-1 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K33

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.05

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0860

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	23	U
108-95-2	Phenol	23	U
111-44-4	Bis(2-chloroethyl)ether	23	U
95-57-8	2-Chlorophenol	23	U
95-48-7	2-Methylphenol	23	U
108-60-1	2,2'-Oxybis(1-chloropropane)	23	U
98-86-2	Acetophenone	23	U
106-44-5	4-Methylphenol	23	U
621-64-7	N-Nitroso-di-n-propylamine	23	U
67-72-1	Hexachloroethane	23	U
98-95-3	Nitrobenzene	23	U
78-59-1	Isophorone	23	U
88-75-5	2-Nitrophenol	23	U
105-67-9	2,4-Dimethylphenol	23	U
111-91-1	Bis(2-chloroethoxy)methane	23	U
120-83-2	2,4-Dichlorophenol	23	U
91-20-3	Naphthalene	23	U
106-47-8	4-Chloroaniline	23	U
87-68-3	Hexachlorobutadiene	23	U
105-60-2	Caprolactam	23	U
59-50-7	4-Chloro-3-methylphenol	23	U
91-57-6	2-Methylnaphthalene	23	U
77-47-4	Hexachlorocyclopentadiene	59	UJ
88-06-2	2,4,6-Trichlorophenol	23	U
95-95-4	2,4,5-Trichlorophenol	23	U
92-52-4	1,1'-Biphenyl	23	U
91-58-7	2-Chloronaphthalene	23	U
88-74-4	2-Nitroaniline	47	U
131-11-3	Dimethylphthalate	23	U
606-20-2	2,6-Dinitrotoluene	23	U
208-96-8	Acenaphthylene	23	U
99-09-2	3-Nitroaniline	47	U
83-32-9	Acenaphthene	23	U
51-28-5	2,4-Dinitrophenol	120	UJ
100-02-7	4-Nitrophenol	47	U
132-64-9	Dibenzofuran	23	U
121-14-2	2,4-Dinitrotoluene	23	U

8/22/08

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K33

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.05

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0860

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	23	U
86-73-7	Fluorene	23	U
7005-72-3	4-Chlorophenyl-phenylether	23	U
100-01-6	4-Nitroaniline	47	U
534-52-1	4,6-Dinitro-2-methylphenol	47	U
86-30-6	N-Nitrosodiphenylamine 1	23	U
95-94-3	1,2,4,5-Tetrachlorobenzene	23	U
101-55-3	4-Bromophenyl-phenylether	23	U
118-74-1	Hexachlorobenzene	23	U
1912-24-9	Atrazine	23	U
87-86-5	Pentachlorophenol	23	UJ
85-01-8	Phenanthrene	23	U
120-12-7	Anthracene	23	U
86-74-8	Carbazole	23	U
84-74-2	Di-n-butylphthalate	23	U
206-44-0	Fluoranthene	23	U
129-00-0	Pyrene	23	U
85-68-7	Butylbenzylphthalate	17	J
91-94-1	3,3'-Dichlorobenzidine	23	U
56-55-3	Benzo(a)anthracene	23	U
218-01-9	Chrysene	23	U
117-81-7	Bis(2-ethylhexyl)phthalate	180	
117-84-0	Di-n-octylphthalate	23	U
205-99-2	Benzo(b)fluoranthene	23	U
207-08-9	Benzo(k)fluoranthene	23	U
50-32-8	Benzo(a)pyrene	23	U
193-39-5	Indeno(1,2,3-cd)pyrene	23	U
53-70-3	Dibenzo(a,h)anthracene	23	U
191-24-2	Benzo(g,h,i)perylene	23	U
58-90-2	2,3,4,6-Tetrachlorophenol	23	U
92-87-5	Benzidine	23	U
95-50-1	1,2-Dichlorobenzene	23	U
106-46-7	1,4-Dichlorobenzene	23	U
541-73-1	1,3-Dichlorobenzene	23	U
62-75-9	N-Nitrosodimethylamine	23	U
95-63-6	1,2,4-Trimethylbenzene	23	U
108-67-8	1,3,5-Trimethylbenzene	23	U

1 Cannot be separated from Diphenylamine

8/22/08

BREMERTON-013015

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K33

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.05

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0860

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.31	72	JN
02		Unknown-02	2.77	85	J
03		Unknown-03	3.10	180	J
04		Unknown-04	8.15	120	J
05		Unknown-05	8.61	82	J
06		Unknown-06	10.17	110	JL
07	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.29	350	NJ
08		Unknown-07	10.59	120	JN
09	~~000556-71-8~~	~~Cyclononasiloxane, octadecame~~	~~24.55~~	~~71~~	~~NJB~~
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

5/22/08 31183

BREMERTON-013016

Report All PAH's

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K33

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.05

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0948

Extraction: (Type) SONC

% Moisture: 15 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.2	U
91-57-6	2-Methylnaphthalene	1.2	U
208-96-8	Acenaphthylene	1.2	U
83-32-9	Acenaphthene	1.2	U
86-73-7	Fluorene	1.2	U
87-86-5	Pentachlorophenol	2.3	U
85-01-8	Phenanthrene	1.2	U
120-12-7	Anthracene	1.2	U
206-44-0	Fluoranthene	1.2	U
129-00-0	Pyrene	1.2	U
56-55-3	Benzo(a)anthracene	1.2	U
218-01-9	Chrysene	1.2	U
205-99-2	Benzo(b)fluoranthene	1.2	U
207-08-9	Benzo(k)fluoranthene	1.2	U
50-32-8	Benzo(a)pyrene	1.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.2	U
53-70-3	Dibenzo(a,h)anthracene	1.2	U
191-24-2	Benzo(g,h,i)perylene	1.2	U

1 Cannot be separated from Diphenylamine

8/22/08

02478

BREMERTON-013017

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K34

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.06

Sample wt/vol: 4.700 (g/mL) G Lab File ID: B16465

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 7.0 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.1	U
74-87-3	Chloromethane	1.1	U
75-01-4	Vinyl chloride	1.1	U
74-83-9	Bromomethane	1.1	U
75-00-3	Chloroethane	1.1	U
75-69-4	Trichlorofluoromethane	1.1	U
75-35-4	1,1-Dichloroethene	1.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U
67-64-1	Acetone	16	
75-15-0	Carbon disulfide	1.1	U
79-20-9	Methyl acetate	1.1	U
75-09-2	Methylene chloride	1.3	U
156-60-5	trans-1,2-Dichloroethene	1.1	U
1634-04-4	Methyl tert-butyl ether	1.1	U
75-34-3	1,1-Dichloroethane	1.1	U
156-59-2	cis-1,2-Dichloroethene	1.1	U
78-93-3	2-Butanone	5.7	U
74-97-5	Bromochloromethane	1.1	U
67-66-3	Chloroform	1.1	U
71-55-6	1,1,1-Trichloroethane	1.1	U
110-82-7	Cyclohexane	1.1	U
56-23-5	Carbon tetrachloride	1.1	U
71-43-2	Benzene	1.1	U
107-06-2	1,2-Dichloroethane	1.1	U
123-91-1	1,4-Dioxane	110	U
79-01-6	Trichloroethene	1.1	U
108-87-2	Methylcyclohexane	1.1	U
78-87-5	1,2-Dichloropropane	1.1	U
75-27-4	Bromodichloromethane	1.1	U
10061-01-5	cis-1,3-Dichloropropene	1.1	U
108-10-1	4-Methyl-2-pentanone	5.7	U
108-88-3	Toluene	1.1	U
10061-02-6	trans-1,3-Dichloropropene	1.1	U
79-00-5	1,1,2-Trichloroethane	1.1	U

8/22/08

BREMERTON-013018

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K34

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.06

Sample wt/vol: 4.700 (g/mL) G Lab File ID: B16465

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 7.0 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.1	U
591-78-6	2-Hexanone	5.7	U
124-48-1	Dibromochloromethane	1.1	U
106-93-4	1,2-Dibromoethane	1.1	U
108-90-7	Chlorobenzene	1.1	U
100-41-4	Ethylbenzene	1.1	U
95-47-6	o-Xylene	1.1	U
179601-23-1	m,p-Xylene	1.1	U
100-42-5	Styrene	1.1	U
75-25-2	Bromoform	1.1	U
98-82-8	Isopropylbenzene	1.1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
541-73-1	1,3-Dichlorobenzene	1.1	U
106-46-7	1,4-Dichlorobenzene	1.1	U
95-50-1	1,2-Dichlorobenzene	1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	1.1	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U
87-68-3	Hexachlorobutadiene	1.1	U
67-72-1	Hexachloroethane	2.3	U
91-20-3	Naphthalene	1.1	U
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U

8/22/08

BREMERTON-013019

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K34

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.06

Sample wt/vol: 4.700 (g/mL) G Lab File ID: B16465

Level: (TRACE or LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 7.0 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.21	5.3	JN
02		Unknown-02	4.48	6.0	J
03		Unknown-03	11.14	4.6	J
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A		

1 EPA-designated Registry Number.

8/22/08

Report All except PAH's

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K34

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.06

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0861

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	21	U
108-95-2	Phenol	21	U
111-44-4	Bis(2-chloroethyl)ether	21	U
95-57-8	2-Chlorophenol	21	U
95-48-7	2-Methylphenol	21	U
108-60-1	2,2'-Oxybis(1-chloropropane)	21	U
98-86-2	Acetophenone	21	U
106-44-5	4-Methylphenol	21	U
621-64-7	N-Nitroso-di-n-propylamine	21	U
67-72-1	Hexachloroethane	21	U
98-95-3	Nitrobenzene	21	U
78-59-1	Isophorone	21	U
88-75-5	2-Nitrophenol	21	U
105-67-9	2,4-Dimethylphenol	21	U
111-91-1	Bis(2-chloroethoxy)methane	21	U
120-83-2	2,4-Dichlorophenol	21	U
91-20-3	Naphthalene	21	U
106-47-8	4-Chloroaniline	21	U
87-68-3	Hexachlorobutadiene	21	U
105-60-2	Caprolactam	21	U
59-50-7	4-Chloro-3-methylphenol	21	U
91-57-6	2-Methylnaphthalene	21	U
77-47-4	Hexachlorocyclopentadiene	54	UJ
88-06-2	2,4,6-Trichlorophenol	21	U
95-95-4	2,4,5-Trichlorophenol	21	U
92-52-4	1,1'-Biphenyl	21	U
91-58-7	2-Chloronaphthalene	21	U
88-74-4	2-Nitroaniline	43	U
131-11-3	Dimethylphthalate	21	U
606-20-2	2,6-Dinitrotoluene	21	U
208-96-8	Acenaphthylene	21	U
99-09-2	3-Nitroaniline	43	U
83-32-9	Acenaphthene	21	U
51-28-5	2,4-Dinitrophenol	110	UJ
100-02-7	4-Nitrophenol	43	U
132-64-9	Dibenzofuran	21	U
121-14-2	2,4-Dinitrotoluene	21	U

8/22/08

SOM01.2 (6/2007) 31285

1E - FORM I SV-2 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K34

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.06

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0861

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	21	U
86-73-7	Fluorene	21	U
7005-72-3	4-Chlorophenyl-phenylether	21	U
100-01-6	4-Nitroaniline	43	U
534-52-1	4,6-Dinitro-2-methylphenol	43	U
86-30-6	N-Nitrosodiphenylamine 1	21	U
95-94-3	1,2,4,5-Tetrachlorobenzene	21	U
101-55-3	4-Bromophenyl-phenylether	21	U
118-74-1	Hexachlorobenzene	21	U
1912-24-9	Atrazine	21	U
87-86-5	Pentachlorophenol	21	UJ
85-01-8	Phenanthrene	21	U
120-12-7	Anthracene	21	U
86-74-8	Carbazole	21	U
84-74-2	Di-n-butylphthalate	21	U
206-44-0	Fluoranthene	21	U
129-00-0	Pyrene	21	U
85-68-7	Butylbenzylphthalate	15	JQ
91-94-1	3,3'-Dichlorobenzidine	21	U
56-55-3	Benzo(a)anthracene	21	U
218-01-9	Chrysene	21	U
117-81-7	Bis(2-ethylhexyl)phthalate	130	
117-84-0	Di-n-octylphthalate	21	U
205-99-2	Benzo(b)fluoranthene	21	U
207-08-9	Benzo(k)fluoranthene	21	U
50-32-8	Benzo(a)pyrene	21	U
193-39-5	Indeno(1,2,3-cd)pyrene	21	U
53-70-3	Dibenzo(a,h)anthracene	21	U
191-24-2	Benzo(g,h,i)perylene	21	U
58-90-2	2,3,4,6-Tetrachlorophenol	21	U
92-87-5	Benzidine	21	U
95-50-1	1,2-Dichlorobenzene	21	U
106-46-7	1,4-Dichlorobenzene	21	U
541-73-1	1,3-Dichlorobenzene	21	U
62-75-9	N-Nitrosodimethylamine	21	U
95-63-6	1,2,4-Trimethylbenzene	21	U
108-67-8	1,3,5-Trimethylbenzene	21	U

1 Cannot be separated from Diphenylamine

5/22/08

BREMERTON-013022

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K34

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.06

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0861

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.31	68	JN
02		Unknown-02	3.09	170	J
03		Unknown-03	8.12	85	J
04		Unknown-04	8.61	68	J
05		Unknown-05	10.11	72	J
06	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.28	290	NJ
07		Unknown-06	10.59	73	JN
08		Unknown-07	12.64	63	J
09		Unknown-08	21.04	110	J
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

01207

Report All PAH's

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K34

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.06

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0949

Extraction: (Type) SONC

% Moisture: 7.0 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.1	U
91-57-6	2-Methylnaphthalene	1.1	U
208-96-8	Acenaphthylene	1.1	U
83-32-9	Acenaphthene	1.1	U
86-73-7	Fluorene	1.1	U
87-86-5	Pentachlorophenol	2.1	U
85-01-8	Phenanthrene	1.1	U
120-12-7	Anthracene	1.1	U
206-44-0	Fluoranthene	1.1	U
129-00-0	Pyrene	1.1	U
56-55-3	Benzo(a)anthracene	1.1	U
218-01-9	Chrysene	1.1	U
205-99-2	Benzo(b)fluoranthene	1.1	U
207-08-9	Benzo(k)fluoranthene	1.1	U
50-32-8	Benzo(a)pyrene	1.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.1	U
53-70-3	Dibenzo(a,h)anthracene	1.1	U
191-24-2	Benzo(g,h,i)perylene	1.1	U

[1] Cannot be separated from Diphenylamine

8/22/08

BREMERTON-013024

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K35

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.07

Sample wt/vol: 4.800 (g/mL) G Lab File ID: B16466

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 9.0 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.1	U
74-87-3	Chloromethane	1.1	U
75-01-4	Vinyl chloride	1.1	U
74-83-9	Bromomethane	1.1	U
75-00-3	Chloroethane	1.1	U
75-69-4	Trichlorofluoromethane	1.1	U
75-35-4	1,1-Dichloroethene	1.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U
67-64-1	Acetone	16	
75-15-0	Carbon disulfide	1.1	U
79-20-9	Methyl acetate	1.1	U
75-09-2	Methylene chloride	1.1	~~B~~ U
156-60-5	trans-1,2-Dichloroethene	1.1	U
1634-04-4	Methyl tert-butyl ether	1.1	U
75-34-3	1,1-Dichloroethane	1.1	U
156-59-2	cis-1,2-Dichloroethene	1.1	U
78-93-3	2-Butanone	5.7	U
74-97-5	Bromochloromethane	1.1	U
67-66-3	Chloroform	1.1	U
71-55-6	1,1,1-Trichloroethane	1.1	U
110-82-7	Cyclohexane	1.1	U
56-23-5	Carbon tetrachloride	1.1	U
71-43-2	Benzene	1.1	U
107-06-2	1,2-Dichloroethane	1.1	U
123-91-1	1,4-Dioxane	110	U
79-01-6	Trichloroethene	1.1	U
108-87-2	Methylcyclohexane	1.1	U
78-87-5	1,2-Dichloropropane	1.1	U
75-27-4	Bromodichloromethane	1.1	U
10061-01-5	cis-1,3-Dichloropropene	1.1	U
108-10-1	4-Methyl-2-pentanone	5.7	U
108-88-3	Toluene	1.1	U
10061-02-6	trans-1,3-Dichloropropene	1.1	U
79-00-5	1,1,2-Trichloroethane	1.1	U

8/22/08

BREMERTON-013025

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K35

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.07

Sample wt/vol: 4.800 (g/mL) G Lab File ID: B16466

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 9.0 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.1	U
591-78-6	2-Hexanone	5.7	U
124-48-1	Dibromochloromethane	1.1	U
106-93-4	1,2-Dibromoethane	1.1	U
108-90-7	Chlorobenzene	1.1	U
100-41-4	Ethylbenzene	1.1	U
95-47-6	o-Xylene	1.1	U
179601-23-1	m,p-Xylene	1.1	U
100-42-5	Styrene	1.1	U
75-25-2	Bromoform	1.1	U
98-82-8	Isopropylbenzene	1.1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
541-73-1	1,3-Dichlorobenzene	1.1	U
106-46-7	1,4-Dichlorobenzene	1.1	U
95-50-1	1,2-Dichlorobenzene	1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	1.1	U
120-82-1	1,2,4-Trichlorobenzene	5.7	U
87-61-6	1,2,3-Trichlorobenzene	5.7	U
87-68-3	Hexachlorobutadiene	1.1	U
67-72-1	Hexachloroethane	2.3	U
91-20-3	Naphthalene	1.1	U
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U

8/22/08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K35

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.07

Sample wt/vol: 4.800 (g/mL) G Lab File ID: B16466

Level: (TRACE or LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 9.0 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.11	6.2	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

8/22/08

BREMERTON-013027

Report All except PAH's

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K35

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.07

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0862

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	22	U
108-95-2	Phenol	22	U
111-44-4	Bis(2-chloroethyl)ether	22	U
95-57-8	2-Chlorophenol	22	U
95-48-7	2-Methylphenol	22	U
108-60-1	2,2'-Oxybis(1-chloropropane)	22	U
98-86-2	Acetophenone	22	U
106-44-5	4-Methylphenol	22	U
621-64-7	N-Nitroso-di-n-propylamine	22	U
67-72-1	Hexachloroethane	22	U
98-95-3	Nitrobenzene	22	U
78-59-1	Isophorone	22	U
88-75-5	2-Nitrophenol	22	U
105-67-9	2,4-Dimethylphenol	22	U
111-91-1	Bis(2-chloroethoxy)methane	22	U
120-83-2	2,4-Dichlorophenol	22	U
91-20-3	Naphthalene	22	U
106-47-8	4-Chloroaniline	22	U
87-68-3	Hexachlorobutadiene	22	U
105-60-2	Caprolactam	22	U
59-50-7	4-Chloro-3-methylphenol	22	U
91-57-6	2-Methylnaphthalene	22	U
77-47-4	Hexachlorocyclopentadiene	55	UJ
88-06-2	2,4,6-Trichlorophenol	22	U
95-95-4	2,4,5-Trichlorophenol	22	U
92-52-4	1,1'-Biphenyl	22	U
91-58-7	2-Chloronaphthalene	22	U
88-74-4	2-Nitroaniline	44	U
131-11-3	Dimethylphthalate	22	U
606-20-2	2,6-Dinitrotoluene	22	U
208-96-8	Acenaphthylene	22	U
99-09-2	3-Nitroaniline	44	U
83-32-9	Acenaphthene	22	U
51-28-5	2,4-Dinitrophenol	110	UJ
100-02-7	4-Nitrophenol	44	U
132-64-9	Dibenzofuran	22	U
121-14-2	2,4-Dinitrotoluene	22	U

8/22/08

BREMERTON-013028

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K35

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.07

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0862

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	22	U
86-73-7	Fluorene	22	U
7005-72-3	4-Chlorophenyl-phenylether	22	U
100-01-6	4-Nitroaniline	44	U
534-52-1	4,6-Dinitro-2-methylphenol	44	U
86-30-6	N-Nitrosodiphenylamine 1	22	U
95-94-3	1,2,4,5-Tetrachlorobenzene	22	U
101-55-3	4-Bromophenyl-phenylether	22	U
118-74-1	Hexachlorobenzene	22	U
1912-24-9	Atrazine	22	U
87-86-5	Pentachlorophenol	22	UJ
85-01-8	Phenanthrene	22	U
120-12-7	Anthracene	22	U
86-74-8	Carbazole	22	U
84-74-2	Di-n-buty phthalate	22	U
206-44-0	Fluoranthene	22	U
129-00-0	Pyrene	22	U
85-68-7	Butylbenzylphthalate	22	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	22	U
218-01-9	Chrysene	22	U
117-81-7	Bis(2-ethylhexyl)phthalate	100	
117-84-0	Di-n-octylphthalate	22	U
205-99-2	Benzo(b)fluoranthene	11	JQ
207-08-9	Benzo(k)fluoranthene	22	U
50-32-8	Benzo(a)pyrene	22	U
193-39-5	Indeno(1,2,3-cd)pyrene	22	U
53-70-3	Dibenzo(a,h)anthracene	22	U
191-24-2	Benzo(g,h,i)perylene	22	U
58-90-2	2,3,4,6-Tetrachlorophenol	22	U
92-87-5	Benzidine	22	U
95-50-1	1,2-Dichlorobenzene	22	U
106-46-7	1,4-Dichlorobenzene	22	U
541-73-1	1,3-Dichlorobenzene	22	U
62-75-9	N-Nitrosodimethylamine	22	U
95-63-6	1,2,4-Trimethylbenzene	22	U
108-67-8	1,3,5-Trimethylbenzene	22	U

1 Cannot be separated from Diphenylamine

8/22/08

BREMERTON-013029

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: J8K35

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.07

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0862

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.09	170	JBN
02		Unknown-02	8.13	86	J
03		Unknown-03	8.61	98	J
04		Unknown-04	10.16	140	J
05	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.28	450	NJ
06		Unknown-05	10.59	100	JN
07		Unknown-06	12.67	88	J
08		Unknown-07	21.32	91	J
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

8/22/08

Report All PAH's

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K35

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.07

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0950

Extraction: (Type) SONC

% Moisture: 9.0 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.1	U
91-57-6	2-Methylnaphthalene	1.1	U
208-96-8	Acenaphthylene	1.1	U
83-32-9	Acenaphthene	1.1	U
86-73-7	Fluorene	1.1	U
87-86-5	Pentachlorophenol	2.2	U
85-01-8	Phenanthrene	1.1	U
120-12-7	Anthracene	1.1	U
206-44-0	Fluoranthene	2.1	
129-00-0	Pyrene	3.5	
56-55-3	Benzo(a)anthracene	3.8	
218-01-9	Chrysene	6.9	
205-99-2	Benzo(b)fluoranthene	4.5	
207-08-9	Benzo(k)fluoranthene	4.7	
50-32-8	Benzo(a)pyrene	7.7	
193-39-5	Indeno(1,2,3-cd)pyrene	3.5	
53-70-3	Dibenzo(a,h)anthracene	1.1	U
191-24-2	Benzo(g,h,i)perylene	5.0	

1 Cannot be separated from Diphenylamine

8/22/08

SOM01.2 (6/2007)

02485

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K63

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.08

Sample wt/vol: 5.000 (g/mL) G Lab File ID: B16349

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.3	U
74-87-3	Chloromethane	1.3	U
75-01-4	Vinyl chloride	1.3	U
74-83-9	Bromomethane	1.3	U
75-00-3	Chloroethane	1.3	U
75-69-4	Trichlorofluoromethane	1.5	
75-35-4	1,1-Dichloroethene	1.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	U
67-64-1	Acetone	9.4	
75-15-0	Carbon disulfide	1.3	U
79-20-9	Methyl acetate	1.3	U
75-09-2	Methylene chloride	~~1.3~~ 1	~~B~~ U
156-60-5	trans-1,2-Dichloroethene	1.3	U
1634-04-4	Methyl tert-butyl ether	1.3	U
75-34-3	1,1-Dichloroethane	1.3	U
156-59-2	cis-1,2-Dichloroethene	1.3	U
78-93-3	2-Butanone	6.4	U
74-97-5	Bromochloromethane	1.3	U
67-66-3	Chloroform	1.3	U
71-55-6	1,1,1-Trichloroethane	1.3	U
110-82-7	Cyclohexane	1.3	U
56-23-5	Carbon tetrachloride	1.3	U
71-43-2	Benzene	1.2	J Q
107-06-2	1,2-Dichloroethane	1.3	U
123-91-1	1,4-Dioxane	130	U
79-01-6	Trichloroethene	1.3	U
108-87-2	Methylcyclohexane	1.3	U
78-87-5	1,2-Dichloropropane	1.3	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	1.3	U
108-10-1	4-Methyl-2-pentanone	6.4	U
108-88-3	Toluene	1.0	J Q
10061-02-6	trans-1,3-Dichloropropene	1.3	U
79-00-5	1,1,2-Trichloroethane	1.3	U

8/22/08

BREMERTON-013032

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K63

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.08

Sample wt/vol: 5.000 (g/mL) G Lab File ID: B16349

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.3	U
591-78-6	2-Hexanone	6.4	UJ
124-48-1	Dibromochloromethane	1.3	U
106-93-4	1,2-Dibromoethane	1.3	U
108-90-7	Chlorobenzene	1.3	U
100-41-4	Ethylbenzene	1.3	U
95-47-6	o-Xylene	1.3	U
179601-23-1	m,p-Xylene	1.3	U
100-42-5	Styrene	1.3	U
75-25-2	Bromoform	1.3	U
98-82-8	Isopropylbenzene	1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	U
541-73-1	1,3-Dichlorobenzene	1.3	U
106-46-7	1,4-Dichlorobenzene	1.3	U
95-50-1	1,2-Dichlorobenzene	1.3	U
96-12-8	1,2-Dibromo-3-chloropropane	1.3	U
120-82-1	1,2,4-Trichlorobenzene	6.4	U
87-61-6	1,2,3-Trichlorobenzene	6.4	U
87-68-3	Hexachlorobutadiene	1.3	U
67-72-1	Hexachloroethane	2.6	U
91-20-3	Naphthalene	1.3	U
630-20-6	1,1,1,2-Tetrachloroethane	1.3	U
96-18-4	1,2,3-Trichloropropane	1.3	U

8/22/08

BREMERTON-013033

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K63

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.08

Sample wt/vol: 5.000 (g/mL) G Lab File ID: B16349

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.16	9.0	J/N
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

8/22/08

Report All Except PAH's

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K63

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.08

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0868

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	26	U
108-95-2	Phenol	26	U
111-44-4	Bis(2-chloroethyl)ether	26	U
95-57-8	2-Chlorophenol	26	U
95-48-7	2-Methylphenol	26	U
108-60-1	2,2'-Oxybis(1-chloropropane)	26	U
98-86-2	Acetophenone	26	U
106-44-5	4-Methylphenol	26	U
621-64-7	N-Nitroso-di-n-propylamine	26	U
67-72-1	Hexachloroethane	26	U
98-95-3	Nitrobenzene	26	U
78-59-1	Isophorone	26	U
88-75-5	2-Nitrophenol	26	U
105-67-9	2,4-Dimethylphenol	26	U
111-91-1	Bis(2-chloroethoxy)methane	26	U
120-83-2	2,4-Dichlorophenol	26	U
91-20-3	Naphthalene	26	U
106-47-8	4-Chloroaniline	26	U
87-68-3	Hexachlorobutadiene	26	U
105-60-2	Caprolactam	26	U
59-50-7	4-Chloro-3-methylphenol	26	U
91-57-6	2-Methylnaphthalene	26	U
77-47-4	Hexachlorocyclopentadiene	64	UJ
88-06-2	2,4,6-Trichlorophenol	26	U
95-95-4	2,4,5-Trichlorophenol	26	U
92-52-4	1,1'-Biphenyl	26	U
91-58-7	2-Chloronaphthalene	26	U
88-74-4	2-Nitroaniline	51	U
131-11-3	Dimethylphthalate	26	U
606-20-2	2,6-Dinitrotoluene	26	U
208-96-8	Acenaphthylene	26	U
99-09-2	3-Nitroaniline	51	U
83-32-9	Acenaphthene	26	U
51-28-5	2,4-Dinitrophenol	130	UJ
100-02-7	4-Nitrophenol	51	U
132-64-9	Dibenzofuran	26	U
121-14-2	2,4-Dinitrotoluene	26	U

8/22/08

BREMERTON-013035

1E - FORM I SV-2 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K63

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.08

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0868

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	26	U
86-73-7	Fluorene	26	U
7005-72-3	4-Chlorophenyl-phenylether	26	U
100-01-6	4-Nitroaniline	51	U
534-52-1	4,6-Dinitro-2-methylphenol	51	U
86-30-6	N-Nitrosodiphenylamine 1	26	U
95-94-3	1,2,4,5-Tetrachlorobenzene	26	U
101-55-3	4-Bromophenyl-phenylether	26	U
118-74-1	Hexachlorobenzene	26	U
1912-24-9	Atrazine	26	U
87-86-5	Pentachlorophenol	26	UJ
85-01-8	Phenanthrene	26	U
120-12-7	Anthracene	26	U
86-74-8	Carbazole	26	U
84-74-2	Di-n-butylphthalate	26	U
206-44-0	Fluoranthene	26	U
129-00-0	Pyrene	26	U
85-68-7	Butylbenzylphthalate	26	U
91-94-1	3,3'-Dichlorobenzidine	26	U
56-55-3	Benzo(a)anthracene	26	U
218-01-9	Chrysene	26	U
117-81-7	Bis(2-ethylhexyl)phthalate	240	
117-84-0	Di-n-octylphthalate	26	U
205-99-2	Benzo(b)fluoranthene	26	U
207-08-9	Benzo(k)fluoranthene	26	U
50-32-8	Benzo(a)pyrene	26	U
193-39-5	Indeno(1,2,3-cd)pyrene	26	U
53-70-3	Dibenzo(a,h)anthracene	26	U
191-24-2	Benzo(g,h,i)perylene	26	U
58-90-2	2,3,4,6-Tetrachlorophenol	26	U
92-87-5	Benzidine	26	U
95-50-1	1,2-Dichlorobenzene	26	U
106-46-7	1,4-Dichlorobenzene	26	U
541-73-1	1,3-Dichlorobenzene	26	U
62-75-9	N-Nitrosodimethylamine	26	U
95-63-6	1,2,4-Trimethylbenzene	26	U
108-67-8	1,3,5-Trimethylbenzene	26	U

1 Cannot be separated from Diphenylamine

8/22/08

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K63

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.08

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0868

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.28	80	JN
02		Unknown-02	2.58	62	J
03		Unknown-03	2.77	57	J
04		Unknown-04	3.09	190	J
05		Unknown-05	4.17	210	J
06		Unknown-06	4.41	130	J
07		Unknown-07	4.67	80	J
08		Unknown-08	4.91	130	J
09		Unknown-09	8.61	65	J
10		Unknown-10	10.14	110	J
11	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.27	200	NJ
12		Unknown-11	10.59	67	JN
13	007683-64-9	Squalene	18.23	63	NJ
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	160	JN

[2] EPA-designated Registry Number.

8/22/08

B1256

DO NOT REPORT

1D - FORM I SV-1 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K68RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.13RE

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0848

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	24	U
108-95-2	Phenol	24	U
111-44-4	Bis(2-chloroethyl)ether	24	U
95-57-8	2-Chlorophenol	24	U
95-48-7	2-Methylphenol	24	U
108-60-1	2,2'-Oxybis(1-chloropropane)	24	U
98-86-2	Acetophenone	1500	E
106-44-5	4-Methylphenol	24	U
621-64-7	N-Nitroso-di-n-propylamine	24	U
67-72-1	Hexachloroethane	24	U
98-95-3	Nitrobenzene	24	U
78-59-1	Isophorone	24	U
88-75-5	2-Nitrophenol	24	U
105-67-9	2,4-Dimethylphenol	24	U
111-91-1	Bis(2-chloroethoxy)methane	24	U
120-83-2	2,4-Dichlorophenol	24	U
91-20-3	Naphthalene	10000	EB
106-47-8	4-Chloroaniline	24	U
87-68-3	Hexachlorobutadiene	24	U
105-60-2	Caprolactam	24	U
59-50-7	4-Chloro-3-methylphenol	24	U
91-57-6	2-Methylnaphthalene	8300	E
77-47-4	Hexachlorocyclopentadiene	61	U
88-06-2	2,4,6-Trichlorophenol	24	U
95-95-4	2,4,5-Trichlorophenol	24	U
92-52-4	1,1'-Biphenyl	890	E
91-58-7	2-Chloronaphthalene	24	U
88-74-4	2-Nitroaniline	49	U
131-11-3	Dimethylphthalate	44	U
606-20-2	2,6-Dinitrotoluene	24	U
208-96-8	Acenaphthylene	460	E
99-09-2	3-Nitroaniline	49	U
83-32-9	Acenaphthene	540	
51-28-5	2,4-Dinitrophenol	120	U
100-02-7	4-Nitrophenol	49	U
132-64-9	Dibenzofuran	320	
121-14-2	2,4-Dinitrotoluene	24	U

8/22/08

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K68RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.13RE

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0848

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	24	U
86-73-7	Fluorene	1000	E
7005-72-3	4-Chlorophenyl-phenylether	24	U
100-01-6	4-Nitroaniline	49	U
534-52-1	4,6-Dinitro-2-methylphenol	49	U
86-30-6	N-Nitrosodiphenylamine 1	24	U
95-94-3	1,2,4,5-Tetrachlorobenzene	24	U
101-55-3	4-Bromophenyl-phenylether	24	U
118-74-1	Hexachlorobenzene	24	U
1912-24-9	Atrazine	24	U
87-86-5	Pentachlorophenol	24	U
85-01-8	Phenanthrene	1800	E
120-12-7	Anthracene	270	
86-74-8	Carbazole	620	E
84-74-2	Di-n-butylphthalate	24	U
206-44-0	Fluoranthene	1900	E
129-00-0	Pyrene	1100	E
85-68-7	Butylbenzylphthalate	24	U
91-94-1	3,3'-Dichlorobenzidine	24	U
56-55-3	Benzo(a)anthracene	540	E
218-01-9	Chrysene	1700	E
117-81-7	Bis(2-ethylhexyl)phthalate	24	U
117-84-0	Di-n-octylphthalate	24	U
205-99-2	Benzo(b)fluoranthene	890	E
207-08-9	Benzo(k)fluoranthene	490	E
50-32-8	Benzo(a)pyrene	2000	E
193-39-5	Indeno(1,2,3-cd)pyrene	880	E
53-70-3	Dibenzo(a,h)anthracene	290	
191-24-2	Benzo(g,h,i)perylene	1000	E
58-90-2	2,3,4,6-Tetrachlorophenol	24	U
92-87-5	Benzidine	24	U
95-50-1	1,2-Dichlorobenzene	24	U
106-46-7	1,4-Dichlorobenzene	24	U
541-73-1	1,3-Dichlorobenzene	24	U
62-75-9	N-Nitrosodimethylamine	24	U
95-63-6	1,2,4-Trimethylbenzene	2400	E
108-67-8	1,3,5-Trimethylbenzene	5500	E

1 Cannot be separated from Diphenylamine

8/22/08

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K68RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.13RE

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0848

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	016607-77-5	1,3,7-Octatrien-5-yne	3.87	88	NJ
02		Unknown-01	5.57	97	J
03	000095-13-6	Indene	6.41	120	NJ
04	010147-11-2	1-Propyne, 3-phenyl-	10.40	82	NJ
05		Unknown-02	10.62	320	J
06	001127-76-0	Naphthalene, 1-ethyl-	11.59	90	NJ
07		Unknown-03	11.74	220	J
08		Unknown-04	12.09	150	J
09	002131-42-2	Naphthalene, 1,4,6-trimethyl-	12.62	79	NJ
10		Unknown-05	12.91	76	J
11	002131-42-2	Naphthalene, 1,4,6-trimethyl-	13.12	120	NJ
12		Unknown-06	14.68	120	J
13		Unknown-07	14.93	83	J
14		Unknown-08	15.02	100	J
15		Unknown-09	15.13	230	J
16		Unknown-10	15.25	160	J
17		Unknown-11	15.29	85	J
18		Unknown-12	15.40	170	J
19	000084-65-1	9,10-Anthracenedione	15.45	120	NJ
20		Unknown-13	15.52	81	J
21		Unknown-14	15.57	130	J
22		Unknown-15	15.74	170	J
23		Unknown-16	15.82	98	J
24		Unknown-17	18.45	99	J
25		Unknown-18	19.25	97	J
26		Unknown-19	19.38	130	J
27		Unknown-20	20.14	110	J
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	280	J

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

01552

Report All PAH's

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K63

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.08

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0940

Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.3	U
91-57-6	2-Methylnaphthalene	1.3	U
208-96-8	Acenaphthylene	0.91	J Q
83-32-9	Acenaphthene	1.3	U
86-73-7	Fluorene	1.3	U
87-86-5	Pentachlorophenol	2.6	U
85-01-8	Phenanthrene	2.3	
120-12-7	Anthracene	0.86	J Q
206-44-0	Fluoranthene	4.9	
129-00-0	Pyrene	8.3	
56-55-3	Benzo(a)anthracene	3.5	
218-01-9	Chrysene	5.1	
205-99-2	Benzo(b)fluoranthene	1.5	
207-08-9	Benzo(k)fluoranthene	1.9	
50-32-8	Benzo(a)pyrene	3.3	
193-39-5	Indeno(1,2,3-cd)pyrene	1.6	
53-70-3	Dibenzo(a,h)anthracene	0.99	J Q
191-24-2	Benzo(g,h,i)perylene	2.0	

[1] Cannot be separated from Diphenylamine

8/22/08

BREMERTON-013041

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K64

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.09

Sample wt/vol: 5.700 (g/mL) G Lab File ID: B16355

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 21 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.1	U
74-87-3	Chloromethane	1.1	U
75-01-4	Vinyl chloride	1.1	U
74-83-9	Bromomethane	1.1	U
75-00-3	Chloroethane	1.1	U
75-69-4	Trichlorofluoromethane	0.88	J Q
75-35-4	1,1-Dichloroethene	1.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U
67-64-1	Acetone	27	
75-15-0	Carbon disulfide	1.1	U
79-20-9	Methyl acetate	1.1	U
75-09-2	Methylene chloride	1.1 ~~0.66~~	~~J~~ U
156-60-5	trans-1,2-Dichloroethene	1.1	U
1634-04-4	Methyl tert-butyl ether	1.1	U
75-34-3	1,1-Dichloroethane	1.1	U
156-59-2	cis-1,2-Dichloroethene	1.1	U
78-93-3	2-Butanone	5.6	U
74-97-5	Bromochloromethane	1.1	U
67-66-3	Chloroform	1.1	U
71-55-6	1,1,1-Trichloroethane	1.1	U
110-82-7	Cyclohexane	1.1	U
56-23-5	Carbon tetrachloride	1.1	U
71-43-2	Benzene	0.88	J Q
107-06-2	1,2-Dichloroethane	1.1	U
123-91-1	1,4-Dioxane	110	U
79-01-6	Trichloroethene	1.1	U
108-87-2	Methylcyclohexane	1.1	U
78-87-5	1,2-Dichloropropane	1.1	U
75-27-4	Bromodichloromethane	1.1	U
10061-01-5	cis-1,3-Dichloropropene	1.1	U
108-10-1	4-Methyl-2-pentanone	5.6	U
108-88-3	Toluene	0.60	J Q
10061-02-6	trans-1,3-Dichloropropene	1.1	U
79-00-5	1,1,2-Trichloroethane	1.1	U

8/22/08

BREMERTON-013042

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K64

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.09

Sample wt/vol: 5.700 (g/mL) G Lab File ID: B16355

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 21 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.1	U
591-78-6	2-Hexanone	5.6	UJ
124-48-1	Dibromochloromethane	1.1	U
106-93-4	1,2-Dibromoethane	1.1	U
108-90-7	Chlorobenzene	1.1	U
100-41-4	Ethylbenzene	1.1	U
95-47-6	o-Xylene	1.1	U
179601-23-1	m,p-Xylene	1.1	U
100-42-5	Styrene	1.1	U
75-25-2	Bromoform	1.1	U
98-82-8	Isopropylbenzene	1.1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
541-73-1	1,3-Dichlorobenzene	1.1	U
106-46-7	1,4-Dichlorobenzene	1.1	U
95-50-1	1,2-Dichlorobenzene	1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	1.1	U
120-82-1	1,2,4-Trichlorobenzene	5.6	U
87-61-6	1,2,3-Trichlorobenzene	5.6 ~~9.13~~	~~JB~~ U
87-68-3	Hexachlorobutadiene	1.1	U
67-72-1	Hexachloroethane	2.2	U
91-20-3	Naphthalene	1.1	U
630-20-6	1,1,1,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U

5/22/08

BREMERTON-013043

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K64

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.09

Sample wt/vol: 5.700 (g/mL) G Lab File ID: B16355

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 21 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.14	6.4	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A	5.5	JN

1 EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

Report All Except PAH's

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K64

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.09

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0869

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	25	U
108-95-2	Phenol	25	U
111-44-4	Bis(2-chloroethyl)ether	25	U
95-57-8	2-Chlorophenol	25	U
95-48-7	2-Methylphenol	25	U
108-60-1	2,2'-Oxybis(1-chloropropane)	25	U
98-86-2	Acetophenone	25	U
106-44-5	4-Methylphenol	25	U
621-64-7	N-Nitroso-di-n-propylamine	25	U
67-72-1	Hexachloroethane	25	U
98-95-3	Nitrobenzene	25	U
78-59-1	Isophorone	25	U
88-75-5	2-Nitrophenol	25	U
105-67-9	2,4-Dimethylphenol	25	U
111-91-1	Bis(2-chloroethoxy)methane	25	U
120-83-2	2,4-Dichlorophenol	25	U
91-20-3	Naphthalene	25	U
106-47-8	4-Chloroaniline	25	U
87-68-3	Hexachlorobutadiene	25	U
105-60-2	Caprolactam	25	U
59-50-7	4-Chloro-3-methylphenol	25	U
91-57-6	2-Methylnaphthalene	25	U
77-47-4	Hexachlorocyclopentadiene	63	UJ
88-06-2	2,4,6-Trichlorophenol	25	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	25	U
91-58-7	2-Chloronaphthalene	25	U
88-74-4	2-Nitroaniline	51	U
131-11-3	Dimethylphthalate	25	U
606-20-2	2,6-Dinitrotoluene	25	U
208-96-8	Acenaphthylene	25	U
99-09-2	3-Nitroaniline	51	U
83-32-9	Acenaphthene	25	U
51-28-5	2,4-Dinitrophenol	130	UJ
100-02-7	4-Nitrophenol	51	U
132-64-9	Dibenzofuran	25	U
121-14-2	2,4-Dinitrotoluene	25	U

8/22/08

SOM01.2 (6/2007)

1E - FORM I SV-2 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K64

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.09

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0869

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	25	U
86-73-7	Fluorene	25	U
7005-72-3	4-Chlorophenyl-phenylether	25	U
100-01-6	4-Nitroaniline	51	U
534-52-1	4,6-Dinitro-2-methylphenol	51	U
86-30-6	N-Nitrosodiphenylamine 1	25	U
95-94-3	1,2,4,5-Tetrachlorobenzene	25	U
101-55-3	4-Bromophenyl-phenylether	25	U
118-74-1	Hexachlorobenzene	25	U
1912-24-9	Atrazine	25	U
87-86-5	Pentachlorophenol	25	UJ
85-01-8	Phenanthrene	25	U
120-12-7	Anthracene	25	U
86-74-8	Carbazole	25	U
84-74-2	Di-n-butylphthalate	25	U
206-44-0	Fluoranthene	25	U
129-00-0	Pyrene	25	U
85-68-7	Butylbenzylphthalate	25	U
91-94-1	3,3'-Dichlorobenzidine	25	U
56-55-3	Benzo(a)anthracene	25	U
218-01-9	Chrysene	25	U
117-81-7	Bis(2-ethylhexyl)phthalate	110	
117-84-0	Di-n-octylphthalate	25	U
205-99-2	Benzo(b)fluoranthene	25	U
207-08-9	Benzo(k)fluoranthene	25	U
50-32-8	Benzo(a)pyrene	25	U
193-39-5	Indeno(1,2,3-cd)pyrene	25	U
53-70-3	Dibenzo(a,h)anthracene	25	U
191-24-2	Benzo(g,h,i)perylene	25	U
58-90-2	2,3,4,6-Tetrachlorophenol	25	U
92-87-5	Benzidine	25	U
95-50-1	1,2-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
541-73-1	1,3-Dichlorobenzene	25	U
62-75-9	N-Nitrosodimethylamine	25	U
95-63-6	1,2,4-Trimethylbenzene	25	U
108-67-8	1,3,5-Trimethylbenzene	25	U

1 Cannot be separated from Diphenylamine

8/22/08

BREMERTON-013046

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K64

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.09

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0869

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.28	83	JN
02		Unknown-02	2.31	49	J
03		Unknown-03	2.59	89	J
04		Unknown-04	3.09	180	J
05	1000154-28-6	Cyclopentene, 1,2,3,4,5-penta	4.21	51	NJ
06		Unknown-05	4.41	69	JN
07		Unknown-06	4.91	160	J
08		Unknown-07	8.13	57	J
09		Unknown-08	8.61	81	J
10		Unknown-09	10.16	100	J
11	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.28	270	NJ
12		Unknown-10	10.59	84	JN
13	000111-02-4	2,6,10,14,18,22-Tetracosahexa	18.23	47	NJ
14		Unknown-11	18.60	71	JN
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

8/22/08

Report All PAH's

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K64

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.09

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0941

Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	0.75	J Q
91-57-6	2-Methylnaphthalene	1.3	U
208-96-8	Acenaphthylene	1.3	U
83-32-9	Acenaphthene	1.3	U
86-73-7	Fluorene	0.70	J Q
87-86-5	Pentachlorophenol	2.5	U
85-01-8	Phenanthrene	1.3	U
120-12-7	Anthracene	1.3	U
206-44-0	Fluoranthene	1.3	U
129-00-0	Pyrene	1.3	U I
56-55-3	Benzo(a)anthracene	1.3	U
218-01-9	Chrysene	1.3	U
205-99-2	Benzo(b)fluoranthene	1.3	U
207-08-9	Benzo(k)fluoranthene	1.3	U
50-32-8	Benzo(a)pyrene	1.3	U I
193-39-5	Indeno(1,2,3-cd)pyrene	0.87	J Q
53-70-3	Dibenzo(a,h)anthracene	0.80	J Q
191-24-2	Benzo(g,h,i)perylene	1.3	I

1 Cannot be separated from Diphenylamine

8/22/08

SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K65

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.10

Sample wt/vol: 4.800 (g/mL) G Lab File ID: B16356

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 13 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.2	U
74-87-3	Chloromethane	1.2	U
75-01-4	Vinyl chloride	1.2	U
74-83-9	Bromomethane	1.2	U
75-00-3	Chloroethane	1.2	U
75-69-4	Trichlorofluoromethane	0.84	J Q
75-35-4	1,1-Dichloroethene	1.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U
67-64-1	Acetone	50	
75-15-0	Carbon disulfide	1.2	U
79-20-9	Methyl acetate	1.2	U
75-09-2	Methylene chloride	1.2 ~~0.96~~	~~J~~ U
156-60-5	trans-1,2-Dichloroethene	1.2	U
1634-04-4	Methyl tert-butyl ether	1.2	U
75-34-3	1,1-Dichloroethane	1.2	U
156-59-2	cis-1,2-Dichloroethene	1.2	U
78-93-3	2-Butanone	6.0	U
74-97-5	Bromochloromethane	1.2	U
67-66-3	Chloroform	1.2	U
71-55-6	1,1,1-Trichloroethane	1.2	U
110-82-7	Cyclohexane	1.2	U
56-23-5	Carbon tetrachloride	1.2	U
71-43-2	Benzene	0.69	J Q
107-06-2	1,2-Dichloroethane	1.2	U
123-91-1	1,4-Dioxane	120	U
79-01-6	Trichloroethene	1.2	U
108-87-2	Methylcyclohexane	1.2	U
78-87-5	1,2-Dichloropropane	1.2	U
75-27-4	Bromodichloromethane	1.2	U
10061-01-5	cis-1,3-Dichloropropene	1.2	U
108-10-1	4-Methyl-2-pentanone	6.0	U
108-88-3	Toluene	1.2	U
10061-02-6	trans-1,3-Dichloropropene	1.2	U
79-00-5	1,1,2-Trichloroethane	1.2	U

8/22/08

BREMERTON-013049

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K65

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.10

Sample wt/vol: 4.800 (g/mL) G Lab File ID: B16356

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 13 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.2	U
591-78-6	2-Hexanone	6.0	UJ
124-48-1	Dibromochloromethane	1.2	U
106-93-4	1,2-Dibromoethane	1.2	U
108-90-7	Chlorobenzene	1.2	U
100-41-4	Ethylbenzene	1.2	U
95-47-6	o-Xylene	1.2	U
179601-23-1	m,p-Xylene	1.2	U
100-42-5	Styrene	1.2	U
75-25-2	Bromoform	1.2	U
98-82-8	Isopropylbenzene	1.2	U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	U
541-73-1	1,3-Dichlorobenzene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.2	U
120-82-1	1,2,4-Trichlorobenzene	6.0	U
87-61-6	1,2,3-Trichlorobenzene	6.0	U
87-68-3	Hexachlorobutadiene	1.2	U
67-72-1	Hexachloroethane	2.4	U
91-20-3	Naphthalene	1.2	U
630-20-6	1,1,1,2-Tetrachloroethane	1.2	U
96-18-4	1,2,3-Trichloropropane	1.2	U

8/22/08

BREMERTON-013050

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K65

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.10

Sample wt/vol: 4.800 (g/mL) G Lab File ID: B16356

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 13 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.59	7.4	JN
02		Unknown-02	11.14	3.7	JN
03					
04					
05					
06					
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09					
10					
11					
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24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

33172

1D - FORM I SV-1 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K65

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.10

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0870

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	23	U
108-95-2	Phenol	23	U
111-44-4	Bis(2-chloroethyl)ether	23	U
95-57-8	2-Chlorophenol	23	U
95-48-7	2-Methylphenol	23	U
108-60-1	2,2'-Oxybis(1-chloropropane)	23	U
98-86-2	Acetophenone	23	U
106-44-5	4-Methylphenol	23	U
621-64-7	N-Nitroso-di-n-propylamine	23	U
67-72-1	Hexachloroethane	23	U
98-95-3	Nitrobenzene	23	U
78-59-1	Isophorone	23	U
88-75-5	2-Nitrophenol	23	U
105-67-9	2,4-Dimethylphenol	23	U
111-91-1	Bis(2-chloroethoxy)methane	23	U
120-83-2	2,4-Dichlorophenol	23	U
91-20-3	Naphthalene	23	U
106-47-8	4-Chloroaniline	23	U
87-68-3	Hexachlorobutadiene	23	U
105-60-2	Caprolactam	23	U
59-50-7	4-Chloro-3-methylphenol	23	U
91-57-6	2-Methylnaphthalene	23	U
77-47-4	Hexachlorocyclopentadiene	57	UJ
88-06-2	2,4,6-Trichlorophenol	23	U
95-95-4	2,4,5-Trichlorophenol	23	U
92-52-4	1,1'-Biphenyl	23	U
91-58-7	2-Chloronaphthalene	23	U
88-74-4	2-Nitroaniline	46	U
131-11-3	Dimethylphthalate	23	U
606-20-2	2,6-Dinitrotoluene	23	U
208-96-8	Acenaphthylene	23	U
99-09-2	3-Nitroaniline	46	U
83-32-9	Acenaphthene	23	U
51-28-5	2,4-Dinitrophenol	110	UJ
100-02-7	4-Nitrophenol	46	U
132-64-9	Dibenzofuran	23	U
121-14-2	2,4-Dinitrotoluene	23	U

8/22/08

BREMERTON-013052

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K65

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.10

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0870

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	23	U
86-73-7	Fluorene	23	U
7005-72-3	4-Chlorophenyl-phenylether	23	U
100-01-6	4-Nitroaniline	46	U
534-52-1	4,6-Dinitro-2-methylphenol	46	U
86-30-6	N-Nitrosodiphenylamine 1	23	U
95-94-3	1,2,4,5-Tetrachlorobenzene	23	U
101-55-3	4-Bromophenyl-phenylether	23	U
118-74-1	Hexachlorobenzene	23	U
1912-24-9	Atrazine	23	U
87-86-5	Pentachlorophenol	23	UJ
85-01-8	Phenanthrene	23	U
120-12-7	Anthracene	23	U
86-74-8	Carbazole	23	U
84-74-2	Di-n-butylphthalate	23	U
206-44-0	Fluoranthene	23	U
129-00-0	Pyrene	23	U
85-68-7	Butylbenzylphthalate	23	U
91-94-1	3,3'-Dichlorobenzidine	23	U
56-55-3	Benzo(a)anthracene	23	U
218-01-9	Chrysene	23	U
117-81-7	Bis(2-ethylhexyl)phthalate	200	
117-84-0	Di-n-octylphthalate	23	U
205-99-2	Benzo(b)fluoranthene	23	U
207-08-9	Benzo(k)fluoranthene	23	U
50-32-8	Benzo(a)pyrene	23	U
193-39-5	Indeno(1,2,3-cd)pyrene	23	U
53-70-3	Dibenzo(a,h)anthracene	23	U
191-24-2	Benzo(g,h,i)perylene	23	U
58-90-2	2,3,4,6-Tetrachlorophenol	23	U
92-87-5	Benzidine	23	U
95-50-1	1,2-Dichlorobenzene	23	U
106-46-7	1,4-Dichlorobenzene	23	U
541-73-1	1,3-Dichlorobenzene	23	U
62-75-9	N-Nitrosodimethylamine	23	U
95-63-6	1,2,4-Trimethylbenzene	23	U
108-67-8	1,3,5-Trimethylbenzene	23	U

1 Cannot be separated from Diphenylamine

8/22/08

BREMERTON-013053

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K65

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.10

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0870

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.58	96	JN
02		Unknown-02	3.09	160	J
03		Unknown-03	4.42	60	J
04		Unknown-04	4.91	150	J
05		Unknown-05	8.14	87	J
06		Unknown-06	8.61	83	J
07		Unknown-07	10.17	98	J
08	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.28	270	NJ
09		Unknown-08	10.59	120	JN
10		Unknown-09	18.23	75	JN
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

01315

BREMERTON-013054

Report All PAH's

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K65

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.10

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0957

Extraction: (Type) SONC

% Moisture: 13 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	2.8	
91-57-6	2-Methylnaphthalene	1.1	U
208-96-8	Acenaphthylene	1.1	U
83-32-9	Acenaphthene	1.1	U
86-73-7	Fluorene	1.1	U
87-86-5	Pentachlorophenol	2.3	U
85-01-8	Phenanthrene	1.1	U
120-12-7	Anthracene	1.1	U
206-44-0	Fluoranthene	1.1	U
129-00-0	Pyrene	1.1	U
56-55-3	Benzo(a)anthracene	1.1	U
218-01-9	Chrysene	1.1	U
205-99-2	Benzo(b)fluoranthene	1.1	U
207-08-9	Benzo(k)fluoranthene	1.1	U
50-32-8	Benzo(a)pyrene	3.4	
193-39-5	Indeno(1,2,3-cd)pyrene	1.1	U
53-70-3	Dibenzo(a,h)anthracene	1.1	U
191-24-2	Benzo(g,h,i)perylene	1.1	U

[1] Cannot be separated from Diphenylamine

8/22/08

SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K66

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.11

Sample wt/vol: 3.200 (g/mL) G Lab File ID: B16357

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 17 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.9	U
74-87-3	Chloromethane	1.9	U
75-01-4	Vinyl chloride	1.9	UJ
74-83-9	Bromomethane	1.9	U
75-00-3	Chloroethane	1.9	U
75-69-4	Trichlorofluoromethane	1.9	U
75-35-4	1,1-Dichloroethene	1.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.9	U
67-64-1	Acetone	28	
75-15-0	Carbon disulfide	1.9	U
79-20-9	Methyl acetate	1.9	U
75-09-2	Methylene chloride	1.9 ~~1.4~~	~~J~~U
156-60-5	trans-1,2-Dichloroethene	1.9	U
1634-04-4	Methyl tert-butyl ether	1.9	U
75-34-3	1,1-Dichloroethane	1.9	U
156-59-2	cis-1,2-Dichloroethene	1.9	U
78-93-3	2-Butanone	9.4	U
74-97-5	Bromochloromethane	1.9	U
67-66-3	Chloroform	1.9	U
71-55-6	1,1,1-Trichloroethane	1.9	U
110-82-7	Cyclohexane	1.9	U
56-23-5	Carbon tetrachloride	1.9	U
71-43-2	Benzene	1.9	U
107-06-2	1,2-Dichloroethane	1.9	U
123-91-1	1,4-Dioxane	190	U
79-01-6	Trichloroethene	1.9	U
108-87-2	Methylcyclohexane	1.9	U
78-87-5	1,2-Dichloropropane	1.9	U
75-27-4	Bromodichloromethane	1.9	U
10061-01-5	cis-1,3-Dichloropropene	1.9	U
108-10-1	4-Methyl-2-pentanone	9.4	U
108-88-3	Toluene	1.9	U
10061-02-6	trans-1,3-Dichloropropene	1.9	U
79-00-5	1,1,2-Trichloroethane	1.9	U

8/22/08

BREMERTON-013056

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K66

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.11

Sample wt/vol: 3.200 (g/mL) G Lab File ID: B16357

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 17 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.9	U
591-78-6	2-Hexanone	9.4	UJ
124-48-1	Dibromochloromethane	1.9	U
106-93-4	1,2-Dibromoethane	1.9	U
108-90-7	Chlorobenzene	1.9	U
100-41-4	Ethylbenzene	1.9	U
95-47-6	o-Xylene	1.9	U
179601-23-1	m,p-Xylene	1.9	U
100-42-5	Styrene	1.9	U
75-25-2	Bromoform	1.9	U
98-82-8	Isopropylbenzene	1.9	U
79-34-5	1,1,2,2-Tetrachloroethane	1.9	U
541-73-1	1,3-Dichlorobenzene	1.9	U
106-46-7	1,4-Dichlorobenzene	1.9	U
95-50-1	1,2-Dichlorobenzene	1.9	U
96-12-8	1,2-Dibromo-3-chloropropane	1.9	U
120-82-1	1,2,4-Trichlorobenzene	9.4	U
87-61-6	1,2,3-Trichlorobenzene	9.4	U
87-68-3	Hexachlorobutadiene	1.9	U
67-72-1	Hexachloroethane	3.8	U
91-20-3	Naphthalene	1.9	U
630-20-6	1,1,1,2-Tetrachloroethane	1.9	U
96-18-4	1,2,3-Trichloropropane	1.9	U

8/22/08

BREMERTON-013057

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K66

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.11

Sample wt/vol: 3.200 (g/mL) G Lab File ID: B16357

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 17 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.14	11	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	9.5	JN

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

BREMERTON-013058

Repeat All except PAH's

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K66

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.11

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G0871

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	24	U
108-95-2	Phenol	24	U
111-44-4	Bis(2-chloroethyl)ether	24	U
95-57-8	2-Chlorophenol	24	U
95-48-7	2-Methylphenol	24	U
108-60-1	2,2'-Oxybis(1-chloropropane)	24	U
98-86-2	Acetophenone	24	U
106-44-5	4-Methylphenol	24	U
621-64-7	N-Nitroso-di-n-propylamine	24	U
67-72-1	Hexachloroethane	24	U
98-95-3	Nitrobenzene	24	U
78-59-1	Isophorone	24	U
88-75-5	2-Nitrophenol	24	U
105-67-9	2,4-Dimethylphenol	24	U
111-91-1	Bis(2-chloroethoxy)methane	24	U
120-83-2	2,4-Dichlorophenol	24	U
91-20-3	Naphthalene	24	U
106-47-8	4-Chloroaniline	24	U
87-68-3	Hexachlorobutadiene	24	U
105-60-2	Caprolactam	24	U
59-50-7	4-Chloro-3-methylphenol	24	U
91-57-6	2-Methylnaphthalene	24	U
77-47-4	Hexachlorocyclopentadiene	60	UJ
88-06-2	2,4,6-Trichlorophenol	24	U
95-95-4	2,4,5-Trichlorophenol	24	U
92-52-4	1,1'-Biphenyl	24	U
91-58-7	2-Chloronaphthalene	24	U
88-74-4	2-Nitroaniline	48	U
131-11-3	Dimethylphthalate	24	U
606-20-2	2,6-Dinitrotoluene	24	U
208-96-8	Acenaphthylene	24	U
99-09-2	3-Nitroaniline	48	U
83-32-9	Acenaphthene	24	U
51-28-5	2,4-Dinitrophenol	120	UJ
100-02-7	4-Nitrophenol	48	U
132-64-9	Dibenzofuran	24	U
121-14-2	2,4-Dinitrotoluene	24	U

8/22/08

SOM01.2 (6/2007)

1E - FORM I SV-2 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K66

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.11

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G0871

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	24	U
86-73-7	Fluorene	24	U
7005-72-3	4-Chlorophenyl-phenylether	24	U
100-01-6	4-Nitroaniline	48	U
534-52-1	4,6-Dinitro-2-methylphenol	48	U
86-30-6	N-Nitrosodiphenylamine 1	24	U
95-94-3	1,2,4,5-Tetrachlorobenzene	24	U
101-55-3	4-Bromophenyl-phenylether	24	U
118-74-1	Hexachlorobenzene	24	U
1912-24-9	Atrazine	24	U
87-86-5	Pentachlorophenol	24	UJ
85-01-8	Phenanthrene	24	U
120-12-7	Anthracene	24	U
86-74-8	Carbazole	24	U
84-74-2	Di-n-butylphthalate	24	U
206-44-0	Fluoranthene	24	U
129-00-0	Pyrene	24	U
85-68-7	Butylbenzylphthalate	24	U
91-94-1	3,3'-Dichlorobenzidine	24	U
56-55-3	Benzo(a)anthracene	24	U
218-01-9	Chrysene	24	U
117-81-7	Bis(2-ethylhexyl)phthalate	240	
117-84-0	Di-n-octylphthalate	24	U
205-99-2	Benzo(b)fluoranthene	24	U
207-08-9	Benzo(k)fluoranthene	24	U
50-32-8	Benzo(a)pyrene	24	U
193-39-5	Indeno(1,2,3-cd)pyrene	24	U
53-70-3	Dibenzo(a,h)anthracene	24	U
191-24-2	Benzo(g,h,i)perylene	24	U
58-90-2	2,3,4,6-Tetrachlorophenol	24	U
92-87-5	Benzidine	24	U
95-50-1	1,2-Dichlorobenzene	24	U
106-46-7	1,4-Dichlorobenzene	24	U
541-73-1	1,3-Dichlorobenzene	24	U
62-75-9	N-Nitrosodimethylamine	24	U
95-63-6	1,2,4-Trimethylbenzene	24	U
108-67-8	1,3,5-Trimethylbenzene	24	U

1 Cannot be separated from Diphenylamine

8/22/08

BREMERTON-013060

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K66

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.11

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G0871

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.28	59	JN
02		Unknown-02	2.59	93	J
03		Unknown-03	3.09	150	J
04		Unknown-04	4.21	53	J
05		Unknown-05	4.41	62	J
06		Unknown-06	4.91	150	J
07		Unknown-07	8.16	110	J
08		Unknown-08	8.61	96	J
09		Unknown-09	10.17	77	J
10	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.28	430	NJ
11		Unknown-10	10.59	160	JN
12		Unknown-11	18.24	66	J
13		Unknown-12	18.34	50	J
14					
15					
16					
17					
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19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

01349

Report All PAH's

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K66

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.11

Sample wt/vol: 100.4 (g/mL) G Lab File ID: G0958

Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.7	
91-57-6	2-Methylnaphthalene	1.2	U
208-96-8	Acenaphthylene	1.2	U
83-32-9	Acenaphthene	1.2	U
86-73-7	Fluorene	1.2	U
87-86-5	Pentachlorophenol	2.4	U
85-01-8	Phenanthrene	1.2	U
120-12-7	Anthracene	1.2	U
206-44-0	Fluoranthene	1.2	U
129-00-0	Pyrene	1.2	U
56-55-3	Benzo(a)anthracene	1.2	U
218-01-9	Chrysene	1.2	U
205-99-2	Benzo(b)fluoranthene	1.2	U
207-08-9	Benzo(k)fluoranthene	1.2	U
50-32-8	Benzo(a)pyrene	1.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.2	U
53-70-3	Dibenzo(a,h)anthracene	1.2	U
191-24-2	Benzo(g,h,i)perylene	1.2	U

[1] Cannot be separated from Diphenylamine

8/22/08

SOM01.2 (6/2007)

Report All but Benzene, Toluene & m,p-Xylene

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K68

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.13

Sample wt/vol: 2.900 (g/mL) G Lab File ID: B16411

Level: (TRACE/LOW/MED) MED Date Received: 05/17/2008

% Moisture: not dec. 18 Date Analyzed: 05/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100 (uL)

Purge Volume: 5.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	120	U
74-87-3	Chloromethane	120	U
75-01-4	Vinyl chloride	120	U
74-83-9	Bromomethane	120	U
75-00-3	Chloroethane	120	U
75-69-4	Trichlorofluoromethane	120	U
75-35-4	1,1-Dichloroethene	120	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	120	U
67-64-1	Acetone	580	U
75-15-0	Carbon disulfide	120	U
79-20-9	Methyl acetate	120	U
75-09-2	Methylene chloride	220	ZU
156-60-5	trans-1,2-Dichloroethene	120	U
1634-04-4	Methyl tert-butyl ether	120	U
75-34-3	1,1-Dichloroethane	120	U
156-59-2	cis-1,2-Dichloroethene	120	U
78-93-3	2-Butanone	580	U
74-97-5	Bromochloromethane	120	U
67-66-3	Chloroform	120	U
71-55-6	1,1,1-Trichloroethane	120	U
110-82-7	Cyclohexane	120	U
56-23-5	Carbon tetrachloride	120	U
71-43-2	Benzene	4700	E → Report from J8K68 DL
107-06-2	1,2-Dichloroethane	120	U
123-91-1	1,4-Dioxane	12000	U
79-01-6	Trichloroethene	120	U
108-87-2	Methylcyclohexane	120	U
78-87-5	1,2-Dichloropropane	120	U
75-27-4	Bromodichloromethane	120	U
10061-01-5	cis-1,3-Dichloropropene	120	U
108-10-1	4-Methyl-2-pentanone	580	U
108-88-3	Toluene	7500	E → "
10061-02-6	trans-1,3-Dichloropropene	120	U
79-00-5	1,1,2-Trichloroethane	120	U

8/22/08

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K68

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.13

Sample wt/vol: 2.900 (g/mL) G Lab File ID: B16411

Level: (TRACE/LOW/MED) MED Date Received: 05/17/2008

% Moisture: not dec. 18 Date Analyzed: 05/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100 (uL)

Purge Volume: 5.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	120	U
591-78-6	2-Hexanone	580	U
124-48-1	Dibromochloromethane	120	U
106-93-4	1,2-Dibromoethane	120	U
108-90-7	Chlorobenzene	120	U
100-41-4	Ethylbenzene	3600	
95-47-6	o-Xylene	3400	
179601-23-1	m,p-Xylene	5700	E → Report from J8K68DL
100-42-5	Styrene	70	J
75-25-2	Bromoform	120	U
98-82-8	Isopropylbenzene	130	
79-34-5	1,1,2,2-Tetrachloroethane	120	U
541-73-1	1,3-Dichlorobenzene	120	U
106-46-7	1,4-Dichlorobenzene	120	U
95-50-1	1,2-Dichlorobenzene	120	U
96-12-8	1,2-Dibromo-3-chloropropane	120	U
120-82-1	1,2,4-Trichlorobenzene	580	U
87-61-6	1,2,3-Trichlorobenzene	580	U
87-68-3	Hexachlorobutadiene	120	U
67-72-1	Hexachloroethane	230	U
91-20-3	Naphthalene	1200	E
630-20-6	1,1,1,2-Tetrachloroethane	120	U
96-18-4	1,2,3-Trichloropropane	120	U

8/22/08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K68

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.13

Sample wt/vol: 2.900 (g/mL) G Lab File ID: B16411

Level: (TRACE or LOW/MED) MED Date Received: 05/17/2008

% Moisture: not dec. 18 Date Analyzed: 05/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.52	540	JBN
02		Unknown-02	11.14	490	JN
03		Unknown-03	14.14	440	JN
04	006783-92-2	Cyclohexane, 1,1,2,3-tetramet	14.80	310	NJ
05	000103-65-1	Benzene, propyl-	15.26	420	NJ
06	000611-14-3	Benzene, 1-ethyl-2-methyl-	15.45	1900	NJ
07		Unknown-04	15.96	790	JN
08		Unknown-05	15.99	630	JN
09	000526-73-8	Benzene, 1,2,3-trimethyl-	16.31	1200	NJ
10	071186-27-1	1-Ethyl-2,2,6-trimethylcycloh	16.88	430	NJ
11		Unknown-06	17.09	380	JN
12		Unknown-07	17.59	460	JL
13		Unknown-08	17.79	330	JL
14	1000152-47-3	trans-Decalin, 2-methyl-	18.32	400	NJ
15	002958-76-1	Naphthalene, decahydro-2-meth	18.70	440	NJ
16					
17					
18					
19					
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22					
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26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	2400	JN

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

5/22/08

Report Only Benzene, Toluene & m,p-Xylene

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K68DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.13DL

Sample wt/vol: 2.900 (g/mL) G Lab File ID: B16413

Level: (TRACE/LOW/MED) MED Date Received: 05/17/2008

% Moisture: not dec. 18 Date Analyzed: 05/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 40 (uL)

Purge Volume: 5.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
75-71-8	Dichlorodifluoromethane	290	U	
74-87-3	Chloromethane	290	U	
75-01-4	Vinyl chloride	290	U	
74-83-9	Bromomethane	290	U	
75-00-3	Chloroethane	290	U	
75-69-4	Trichlorofluoromethane	290	U	
75-35-4	1,1-Dichloroethene	290	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	290	U	
67-64-1	Acetone	1500	U	
75-15-0	Carbon disulfide	290	U	
79-20-9	Methyl acetate	290	U	
75-09-2	Methylene chloride	420	DB	
156-60-5	trans-1,2-Dichloroethene	290	U	
1634-04-4	Methyl tert-butyl ether	290	U	
75-34-3	1,1-Dichloroethane	290	U	
156-59-2	cis-1,2-Dichloroethene	290	U	
78-93-3	2-Butanone	1500	U	
74-97-5	Bromochloromethane	290	U	
67-66-3	Chloroform	290	U	
71-55-6	1,1,1-Trichloroethane	290	U	
110-82-7	Cyclohexane	290	U	
56-23-5	Carbon tetrachloride	290	U	
71-43-2	Benzene	4800	J	→ Report
107-06-2	1,2-Dichloroethane	290	U	
123-91-1	1,4-Dioxane	29000	U	
79-01-6	Trichloroethene	290	U	
108-87-2	Methylcyclohexane	290	U	
78-87-5	1,2-Dichloropropane	290	U	
75-27-4	Bromodichloromethane	290	U	
10061-01-5	cis-1,3-Dichloropropene	290	U	
108-10-1	4-Methyl-2-pentanone	1500	U	
108-88-3	Toluene	7700	J	→ Report
10061-02-6	trans-1,3-Dichloropropene	290	U	
79-00-5	1,1,2-Trichloroethane	290	U	

5/22/08

SOM01.3 (3/2007)

08236

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K68DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.13DL

Sample wt/vol: 2.900 (g/mL) G Lab File ID: B16413

Level: (TRACE/LOW/MED) MED Date Received: 05/17/2008

% Moisture: not dec. 18 Date Analyzed: 05/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 40 (uL)

Purge Volume: 5.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	290	U
591-78-6	2-Hexanone	1500	U
124-48-1	Dibromochloromethane	290	U
106-93-4	1,2-Dibromoethane	290	U
108-90-7	Chlorobenzene	290	U
100-41-4	Ethylbenzene	3600	D
95-47-6	o-Xylene	3300	D
179601-23-1	m,p-Xylene	5700	D → Report
100-42-5	Styrene	290	U
75-25-2	Bromoform	290	U
98-82-8	Isopropylbenzene	150	DJ
79-34-5	1,1,2,2-Tetrachloroethane	290	U
541-73-1	1,3-Dichlorobenzene	290	U
106-46-7	1,4-Dichlorobenzene	290	U
95-50-1	1,2-Dichlorobenzene	290	U
96-12-8	1,2-Dibromo-3-chloropropane	290	U
120-82-1	1,2,4-Trichlorobenzene	1500	U
87-61-6	1,2,3-Trichlorobenzene	1500	U
87-68-3	Hexachlorobutadiene	290	U
67-72-1	Hexachloroethane	580	U
91-20-3	Naphthalene	1100	DB
630-20-6	1,1,1,2-Tetrachloroethane	290	U
96-18-4	1,2,3-Trichloropropane	290	U

8/22/08

BREMERTON-013067

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K63DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.13DL

Sample wt/vol: 2.900 (g/mL) G Lab File ID: B16413

Level: (TRACE or LOW/MED) MED Date Received: 05/17/2008

% Moisture: not dec. 18 Date Analyzed: 05/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 40 (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.14	1500	DJ
02		Unknown-02	12.13	940	DJ
03		Unknown-03	14.73	570	DJ
04	000103-65-1	Benzene, propyl-	15.28	470	DNJ
05	000611-14-3	Benzene, 1-ethyl-2-methyl-	15.46	2300	DNJ
06		Unknown-04	15.97	1200	DJ
07		Unknown-05	15.99	820	DJ
08	000526-73-8	Benzene, 1,2,3-trimethyl-	16.32	1500	DNJ
09	081983-71-3	Cyclohexane, 1,1-dimethyl-2-p	16.88	470	DNJ
10		Unknown-06	17.08	470	DJ
11		Unknown-07	17.59	670	DJ
12		Unknown-08	17.87	660	DJ
13	002958-76-1	Naphthalene, decahydro-2-meth	18.32	480	DNJ
14		Unknown-09	18.64	530	DJ
15	002958-75-0	1-Methyldecahydronaphthalene	18.70	550	DNJ
16		Unknown-10	19.58	460	DJ
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	2900	DJ

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

Report All except otherwise indicated (* from DL or DL2 reruns)

1D - FORM I SV-1 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K68

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.13

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0846

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	24	U
108-95-2	Phenol	24	U
111-44-4	Bis(2-chloroethyl)ether	24	U
95-57-8	2-Chlorophenol	24	U
95-48-7	2-Methylphenol	24	UJ
108-60-1	2,2'-Oxybis(1-chloropropane)	24	U
98-86-2	Acetophenone	1500	E → Report from J8K68DL
106-44-5	4-Methylphenol	24	UJ
621-64-7	N-Nitroso-di-n-propylamine	24	U
67-72-1	Hexachloroethane	24	U
98-95-3	Nitrobenzene	24	U
78-59-1	Isophorone	24	UJ
88-75-5	2-Nitrophenol	24	U
105-67-9	2,4-Dimethylphenol	24	U
111-91-1	Bis(2-chloroethoxy)methane	24	U
120-83-2	2,4-Dichlorophenol	24	UJ
91-20-3	Naphthalene	8700	EB → Report from J8K68DL
106-47-8	4-Chloroaniline	24	UJ
87-68-3	Hexachlorobutadiene	24	U
105-60-2	Caprolactam	24	U
59-50-7	4-Chloro-3-methylphenol	24	U
91-57-6	2-Methylnapnthalene	6600	E → "
77-47-4	Hexachlorocyclopentadiene	61	UJ
88-06-2	2,4,6-Trichlorophenol	24	U
95-95-4	2,4,5-Trichlorophenol	24	U
92-52-4	1,1'-Biphenyl	980	E → Report from J8K68DL
91-58-7	2-Chloronaphthalene	24	UJ
88-74-4	2-Nitroaniline	49	U
131-11-3	Dimethylphthalate	24	U
606-20-2	2,6-Dinitrotoluene	24	U
208-96-8	Acenaphthylene	570	E → "
99-09-2	3-Nitroaniline	49	UJ
83-32-9	Acenaphthene	460	J
51-28-5	2,4-Dinitrophenol	120	UJ
100-02-7	4-Nitrophenol	49	UJ
132-64-9	Dibenzofuran	370	J
121-14-2	2,4-Dinitrotoluene	24	U

8/22/08

SOM01.2 (6/2007)

1E - FORM I SV-2 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K68

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.13

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0846

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
84-66-2	Diethylphthalate	24	UJ	
86-73-7	Fluorene	1100	E	→ Report from J8K68
7005-72-3	4-Chlorophenyl-phenylether	24	UJ	
100-01-6	4-Nitroaniline	49	UJ	
534-52-1	4,6-Dinitro-2-methylphenol	49	U	
86-30-6	N-Nitrosodiphenylamine 1	24	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	24	UJ	
101-55-3	4-Bromophenyl-phenylether	24	UJ	
118-74-1	Hexachlorobenzene	24	U	
1912-24-9	Atrazine	24	U	
87-86-5	Pentachlorophenol	24	UJ	
85-01-8	Phenanthrene	1600	E	→ Report from J8K68DL
120-12-7	Anthracene	320	J	
86-74-8	Carbazole	490	E	→ Report from J8K68DL
84-74-2	Di-n-butylphthalate	24	UJ	
206-44-0	Fluoranthene	1600	E	→ "
129-00-0	Pyrene	910	E	→ "
85-68-7	Butylbenzylphthalate	24	UJ	
91-94-1	3,3'-Dichlorobenzidine	24	UJ	
56-55-3	Benzo(a)anthracene	450	E	→ "
218-01-9	Chrysene	1400	E	→ "
117-81-7	Bis(2-ethylhexyl)phthalate	24	UJ	
117-84-0	Di-n-octylphthalate	24	UJ	
205-99-2	Benzo(b)fluoranthene	1300	E	→ "
207-08-9	Benzo(k)fluoranthene	710	E	→ "
50-32-8	Benzo(a)pyrene	2700	E	→ "
193-39-5	Indeno(1,2,3-cd)pyrene	1200	E	→ "
53-70-3	Dibenzo(a,h)anthracene	400	E	→ "
191-24-2	Benzo(g,h,i)perylene	1700	E	→ "
58-90-2	2,3,4,6-Tetrachlorophenol	24	UJ	
92-87-5	Benzidine	24	U	
95-50-1	1,2-Dichlorobenzene	24	U	
106-46-7	1,4-Dichlorobenzene	24	U	
541-73-1	1,3-Dichlorobenzene	24	U	
62-75-9	N-Nitrosodimethylamine	24	U	
95-63-6	1,2,4-Trimethylbenzene	2500	E	→ Report from J8K68
108-67-8	1,3,5-Trimethylbenzene	5500	E	→ Report from J8K68DL

1 Cannot be separated from Diphenylamine

5/22/08

BREMERTON-013070

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K68

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.13

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0846

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	016607-77-5	1,3,7-Octatrien-5-yne	3.85	2400	NJ
02		Unknown-01	4.39	120	JN
03	000611-14-3	Benzene, 1-ethyl-2-methyl-	4.92	230	NJ
04		Unknown-02	5.54	2400	JN
05	000526-73-8	Benzene, 1,2,3-trimethyl-	5.94	360	NJ
06	000496-11-7	Indane	5.99	200	NJ
07		Unknown-03	6.17	150	JN
08	000095-13-6	Indene	6.37	3600	NJ
09		Unknown-04	7.04	140	JN
10	002039-93-2	Benzene, (1-methylenepropyl)-	7.18	200	NJ
11		Unknown-05	10.56	310	JN
12		Unknown-06	11.70	230	J
13		Unknown-07	11.86	180	J
14	002131-41-1	Naphthalene, 1,4,5-trimethyl-	12.78	130	NJ
15	002131-42-2	Naphthalene, 1,4,6-trimethyl-	12.97	120	NJ
16		Unknown-08	15.11	210	JN
17		Unknown-09	15.38	160	J
18		Unknown-10	15.56	210	J
19		Unknown-11	15.71	150	J
20		Unknown-12	15.80	120	J
21		Unknown-13	18.42	210	J
22	000198-55-0	Perylene	19.06	140	NJ
23		Unknown-14	19.33	140	JN
24	000601-58-1	Stigmastane	19.89	110	NJ
25		Unknown-15	20.08	110	JN
26					
27					
28					
29					
30					
	E366796[2]	Total Alkanes	N/A	430	JN

[2] EPA-designated Registry Number.

8/22/08

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K68DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.13DL

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0852

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 20.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	490	U
108-95-2	Phenol	490	U
111-44-4	Bis(2-chloroethyl)ether	490	U
95-57-8	2-Chlorophenol	490	U
95-48-7	2-Methylphenol	490	U
108-60-1	2,2'-Oxybis(1-chloropropane)	490	U
98-86-2	Acetophenone	1800	~~D~~ → Report
106-44-5	4-Methylphenol	490	U
621-64-7	N-Nitroso-di-n-propylamine	490	U
67-72-1	Hexachloroethane	490	U
98-95-3	Nitrobenzene	490	U
78-59-1	Isophorone	490	U
88-75-5	2-Nitrophenol	490	U
105-67-9	2,4-Dimethylphenol	490	U
111-91-1	Bis(2-chloroethoxy)methane	490	U
120-83-2	2,4-Dichlorophenol	490	U
91-20-3	Naphthalene	73000	DEB
106-47-8	4-Chloroaniline	490	U
87-68-3	Hexachlorobutadiene	490	U
105-60-2	Caprolactam	490	U
59-50-7	4-Chloro-3-methylphenol	490	U
91-57-6	2-Methylnaphthalene	55000	DE
77-47-4	Hexachlorocyclopentadiene	1200	U
88-06-2	2,4,6-Trichlorophenol	490	U
95-95-4	2,4,5-Trichlorophenol	490	U
92-52-4	1,1'-Biphenyl	3200	~~D~~ → Report
91-58-7	2-Chloronaphthalene	490	U
88-74-4	2-Nitroaniline	970	U
131-11-3	Dimethylphthalate	490	U
606-20-2	2,6-Dinitrotoluene	490	U
208-96-8	Acenaphthylene	1400	~~D~~ → Report
99-09-2	3-Nitroaniline	970	U
83-32-9	Acenaphthene	910	D
51-28-5	2,4-Dinitrophenol	2400	U
100-02-7	4-Nitrophenol	970	U
132-64-9	Dibenzofuran	660	~~D~~
121-14-2	2,4-Dinitrotoluene	490	U

8/22/08

SOM01.2 (6/2007) 91416

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K68DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.13DL

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0852

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 20.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	490	U
86-73-7	Fluorene	4600	~~D~~ → Report
7005-72-3	4-Chlorophenyl-phenylether	490	U
100-01-6	4-Nitroaniline	970	U
534-52-1	4,6-Dinitro-2-methylphenol	970	U
86-30-6	N-Nitrosodiphenylamine 1	490	U
95-94-3	1,2,4,5-Tetrachlorobenzene	490	U
101-55-3	4-Bromophenyl-phenylether	490	U
118-74-1	Hexachlorobenzene	490	U
1912-24-9	Atrazine	490	U
87-86-5	Pentachlorophenol	490	U
85-01-8	Phenanthrene	18000	DE
120-12-7	Anthracene	2400	D
86-74-8	Carbazole	560	~~D~~ → Report
84-74-2	Di-n-butylphthalate	490	U
206-44-0	Fluoranthene	12000	~~DEJ~~ → "
129-00-0	Pyrene	12000	~~DEJ~~ → "
85-68-7	Butylbenzylphthalate	490	U
91-94-1	3,3'-Dichlorobenzidine	490	U
56-55-3	Benzo(a)anthracene	3600	~~D~~ → "
218-01-9	Chrysene	3900	~~D~~ → "
117-81-7	Bis(2-ethylhexyl)phthalate	490	U
117-84-0	Di-n-octylphthalate	490	U
205-99-2	Benzo(b)fluoranthene	1800	~~D~~ → "
207-08-9	Benzo(k)fluoranthene	2200	~~D~~ → "
50-32-8	Benzo(a)pyrene	2500	~~D~~ → "
193-39-5	Indeno(1,2,3-cd)pyrene	2000	~~D~~ → "
53-70-3	Dibenzo(a,h)anthracene	780	~~D~~ → "
191-24-2	Benzo(g,h,i)perylene	2400	~~D~~ → "
58-90-2	2,3,4,6-Tetrachlorophenol	490	U
92-87-5	Benzidine	490	U
95-50-1	1,2-Dichlorobenzene	490	U
106-46-7	1,4-Dichlorobenzene	490	U
541-73-1	1,3-Dichlorobenzene	490	U
62-75-9	N-Nitrosodimethylamine	490	U
95-63-6	1,2,4-Trimethylbenzene	2600	D
108-67-8	1,3,5-Trimethylbenzene	8600	DE

1 Cannot be separated from Diphenylamine

8/22/08

BREMERTON-013073

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K68DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.13DL

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0852

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 20.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000622-96-8	Benzene, 1-ethyl-4-methyl-	4.92	3100	DNJB
02		Unknown-01	5.53	5600	DJ
03	000526-73-8	Benzene, 1,2,3-trimethyl-	5.94	3500	DNJ
04	000095-13-6	Indene	6.33	11000	DNJ
05	000581-42-0	Naphthalene, 2,6-dimethyl-	11.65	3400	DNJ
06	000575-41-7	Naphthalene, 1,3-dimethyl-	11.81	2700	DNJ
07	000575-37-1	Naphthalene, 1,7-dimethyl-	11.85	1700	DNJ
08		Unknown-02	14.62	2800	DJ
09		Unknown-03	14.87	1700	DJ
10		Unknown-04	14.95	1900	DJ
11		Unknown-05	15.06	3200	DJ
12		Unknown-06	15.33	2200	DJ
13	000781-92-0	Anthracene, 1,4-dimethyl-	15.48	2200	DNJ
14	002789-88-0	di-p-Tolylacetylene	15.60	1700	DNJ
15		Unknown-07	15.65	2200	DJ
16		Unknown-08	15.88	1600	DJ
17	002381-21-7	Pyrene, 1-methyl-	16.33	2200	DNJ
18	000092-06-8	m-Terphenyl	16.88	1700	DNJ
19	000112-04-9	Silane, trichlorooctadecyl-	17.00	2600	DNJ
20	000082-05-3	7H-Benz[de]anthracen-7-one	17.42	1900	DNJ
21		Unknown-09	17.86	2200	DJ
22		Unknown-10	18.37	1900	DJ
23		Unknown-11	18.70	2100	DJ
24	031541-97-6	Nickel, bis(1,1,1,5,5,5-hexaf	18.86	1700	DNJ
25		Unknown-12	19.28	1800	DJ
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	1900	DJ

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

SLAB

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K68DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.13DL2

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0853

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1000.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	24000	U
108-95-2	Phenol	24000	U
111-44-4	Bis(2-chloroethyl)ether	24000	U
95-57-8	2-Chlorophenol	24000	U
95-48-7	2-Methylphenol	24000	U
108-60-1	2,2'-Oxybis(1-chloropropane)	24000	U
98-86-2	Acetophenone	24000	U
106-44-5	4-Methylphenol	24000	U
621-64-7	N-Nitroso-di-n-propylamine	24000	U
67-72-1	Hexachloroethane	24000	U
98-95-3	Nitrobenzene	24000	U
78-59-1	Isophorone	24000	U
88-75-5	2-Nitrophenol	24000	U
105-67-9	2,4-Dimethylphenol	24000	U
111-91-1	Bis(2-chloroethoxy)methane	24000	U
120-83-2	2,4-Dichlorophenol	24000	U
91-20-3	Naphthalene	290000	~~DB~~ → Report
106-47-8	4-Chloroaniline	24000	U
87-68-3	Hexachlorobutadiene	24000	U
105-60-2	Caprolactam	24000	U
59-50-7	4-Chloro-3-methylphenol	24000	U
91-57-6	2-Methylnaphthalene	100000	~~D~~ → Report
77-47-4	Hexachlorocyclopentadiene	61000	U
88-06-2	2,4,6-Trichlorophenol	24000	U
95-95-4	2,4,5-Trichlorophenol	24000	U
92-52-4	1,1'-Biphenyl	6600	DJ
91-58-7	2-Chloronaphthalene	24000	U
88-74-4	2-Nitroaniline	49000	U
131-11-3	Dimethylphthalate	24000	U
606-20-2	2,6-Dinitrotoluene	24000	U
208-96-8	Acenaphthylene	24000	U
99-09-2	3-Nitroaniline	49000	U
83-32-9	Acenaphthene	24000	U
51-28-5	2,4-Dinitrophenol	120000	U
100-02-7	4-Nitrophenol	49000	U
132-64-9	Dibenzofuran	24000	U
121-14-2	2,4-Dinitrotoluene	24000	U

8/22/08

SOM01.2 (6/2007)

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K68DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.13DL2

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0853

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1000.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	24000	U
86-73-7	Fluorene	10000	DJ
7005-72-3	4-Chlorophenyl-phenylether	24000	U
100-01-6	4-Nitroaniline	49000	U
534-52-1	4,6-Dinitro-2-methylphenol	49000	U
86-30-6	N-Nitrosodiphenylamine 1	24000	U
95-94-3	1,2,4,5-Tetrachlorobenzene	24000	U
101-55-3	4-Bromophenyl-phenylether	24000	U
118-74-1	Hexachlorobenzene	24000	U
1912-24-9	Atrazine	24000	U
87-86-5	Pentachlorophenol	24000	U
85-01-8	Phenanthrene	40000	✓ → Report
120-12-7	Anthracene	24000	U
86-74-8	Carbazole	24000	U
84-74-2	Di-n-butylphthalate	24000	U
206-44-0	Fluoranthene	19000	DJ
129-00-0	Pyrene	17000	DJ
85-68-7	Butylbenzylphthalate	24000	U
91-94-1	3,3'-Dichlorobenzidine	24000	U
56-55-3	Benzo(a)anthracene	11000	DJ
218-01-9	Chrysene	13000	DJ
117-81-7	Bis(2-ethylhexyl)phthalate	24000	U
117-84-0	Di-n-octylphthalate	24000	U
205-99-2	Benzo(b)fluoranthene	9200	DJ
207-08-9	Benzo(k)fluoranthene	12000	DJ
50-32-8	Benzo(a)pyrene	10000	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	24000	U
53-70-3	Dibenzo(a,h)anthracene	24000	U
191-24-2	Benzo(g,h,i)perylene	24000	U
58-90-2	2,3,4,6-Tetrachlorophenol	24000	U
92-87-5	Benzidine	24000	U
95-50-1	1,2-Dichlorobenzene	24000	U
106-46-7	1,4-Dichlorobenzene	24000	U
541-73-1	1,3-Dichlorobenzene	24000	U
62-75-9	N-Nitrosodimethylamine	24000	U
95-63-6	1,2,4-Trimethylbenzene	24000	U
108-67-8	1,3,5-Trimethylbenzene	17000	DJ

1 Cannot be separated from Diphenylamine

8/22/08

BREMERTON-013076

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K68DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.13DL2

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0853

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1000.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000090-12-0	Naphthalene, 1-methyl-	10.44	74000	DNJ
02		Unknown-01	17.68	68000	DJ
03		Unknown-02	18.06	140000	DJ
04		Unknown-03	18.65	130000	DJ
05	000556-71-8	Cyclononasiloxane, octadecame	19.37	200000	DNJ
06		Unknown-04	20.25	100000	DJ
07	014113-80-5	Cyclodecacyclododecene, 1,2,3	21.22	67000	DNJ
08		Unknown-05	21.35	68000	DJ
09		Unknown-06	22.78	69000	DJ
10					
11					
12					
13					
14					
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19					
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27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (7/2007)

8/22/08

01513

Do NOT REPORT

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K68

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.13

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0975

Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1000.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1200	U
91-57-6	2-Methylnaphthalene	1200	U
208-96-8	Acenaphthylene	1300	
83-32-9	Acenaphthene	1200	U
86-73-7	Fluorene	1200	U
87-86-5	Pentachlorophenol	2400	U
85-01-8	Phenanthrene	5500	
120-12-7	Anthracene	3400	
206-44-0	Fluoranthene	37000	E
129-00-0	Pyrene	41000	E
56-55-3	Benzo(a)anthracene	11000	
218-01-9	Chrysene	20000	E
205-99-2	Benzo(b)fluoranthene	6900	
207-08-9	Benzo(k)fluoranthene	10000	
50-32-8	Benzo(a)pyrene	15000	E
193-39-5	Indeno(1,2,3-cd)pyrene	5100	
53-70-3	Dibenzo(a,h)anthracene	1400	
191-24-2	Benzo(g,h,i)perylene	5700	

1 Cannot be separated from Diphenylamine

8/22/08

SOM01.2 (6/2007)

BREMERTON-013078

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K69

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.14

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0847

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 35 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	31	UJ
108-95-2	Phenol	31	U
111-44-4	Bis(2-chloroethyl)ether	31	U
95-57-8	2-Chlorophenol	31	U
95-48-7	2-Methylphenol	31	U ~~UJ~~ RW 8/25/08
108-60-1	2,2'-Oxybis(1-chloropropane)	31	UJ
98-86-2	Acetophenone	30	J Q
106-44-5	4-Methylphenol	31	U
621-64-7	N-Nitroso-di-n-propylamine	31	UJ
67-72-1	Hexachloroethane	31	U
98-95-3	Nitrobenzene	31	U
78-59-1	Isophorone	31	U
88-75-5	2-Nitrophenol	31	U
105-67-9	2,4-Dimethylphenol	31	U
111-91-1	Bis(2-chloroethoxy)methane	31	UJ
120-83-2	2,4-Dichlorophenol	31	UJ
91-20-3	Naphthalene	670	EB → Report from J8K69
106-47-8	4-Chloroaniline	31	U
87-68-3	Hexachlorobutadiene	31	UJ
105-60-2	Caprolactam	31	U
59-50-7	4-Chloro-3-methylphenol	31	U
91-57-6	2-Methylnaphthalene	200	
77-47-4	Hexachlorocyclopentadiene	77	UJ
88-06-2	2,4,6-Trichlorophenol	31	U
95-95-4	2,4,5-Trichlorophenol	31	U
92-52-4	1,1'-Biphenyl	65	
91-58-7	2-Chloronaphthalene	31	U
88-74-4	2-Nitroaniline	61	U
131-11-3	Dimethylphthalate	31	UJ
606-20-2	2,6-Dinitrotoluene	31	UJ
208-96-8	Acenaphthylene	1400	E → "
99-09-2	3-Nitroaniline	61	U
83-32-9	Acenaphthene	53	
51-28-5	2,4-Dinitrophenol	150	UJ
100-02-7	4-Nitrophenol	61	U
132-64-9	Dibenzofuran	63	J
121-14-2	2,4-Dinitrotoluene	31	UJ

RW 8/22/08

SOM01.2 (6/2007)

Report All but m,p-Xylene & Naphthalene They report from J8K690L

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K69

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.14

Sample wt/vol: 3.400 (g/mL) G Lab File ID: B16404

Level: (TRACE/LOW/MED) MED Date Received: 05/17/2008

% Moisture: not dec. 35 Date Analyzed: 05/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 10 (uL)

Purge Volume: 5.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1400	U
74-87-3	Chloromethane	1400	U
75-01-4	Vinyl chloride	1400	U
74-83-9	Bromomethane	1400	U
75-00-3	Chloroethane	1400	U
75-69-4	Trichlorofluoromethane	1400	U
75-35-4	1,1-Dichloroethene	1400	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1400	U
67-64-1	Acetone	7000	U
75-15-0	Carbon disulfide	1400	U
79-20-9	Methyl acetate	160	J Q
75-09-2	Methylene chloride	1400 ~~1300~~	~~JB~~ U
156-60-5	trans-1,2-Dichloroethene	1400	U
1634-04-4	Methyl tert-butyl ether	1400	U
75-34-3	1,1-Dichloroethane	1400	U
156-59-2	cis-1,2-Dichloroethene	1400	U
78-93-3	2-Butanone	2400	J Q
74-97-5	Bromochloromethane	1400	U
67-66-3	Chloroform	1400	U
71-55-6	1,1,1-Trichloroethane	1400	U
110-82-7	Cyclohexane	1400	U
56-23-5	Carbon tetrachloride	1400	U
71-43-2	Benzene	12000	
107-06-2	1,2-Dichloroethane	1400	U
123-91-1	1,4-Dioxane	140000	U
79-01-6	Trichloroethene	1400	U
108-87-2	Methylcyclohexane	1400	U
78-87-5	1,2-Dichloropropane	1400	U
75-27-4	Bromodichloromethane	1400	U
10061-01-5	cis-1,3-Dichloropropene	930	J Q
108-10-1	4-Methyl-2-pentanone	7000	U
108-88-3	Toluene	3300	J
10061-02-6	trans-1,3-Dichloropropene	930	J Q
79-00-5	1,1,2-Trichloroethane	1400	U

8/22/08

SOM01.2 (6/2007)

9827

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K69

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.14

Sample wt/vol: 3.400 (g/mL) G Lab File ID: B16404

Level: (TRACE/LOW/MED) MED Date Received: 05/17/2008

% Moisture: not dec. 35 Date Analyzed: 05/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 10 (uL)

Purge Volume: 5.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1400	U
591-78-6	2-Hexanone	7000	U
124-48-1	Dibromochloromethane	1400	U
106-93-4	1,2-Dibromoethane	1400	U
108-90-7	Chlorobenzene	1400	U
100-41-4	Ethylbenzene	24000	
95-47-6	o-Xylene	55000	
179601-23-1	m,p-Xylene	57000	E → Repeat from J8K69DL
100-42-5	Styrene	1400	U
75-25-2	Bromoform	1400	U
98-82-8	Isopropylbenzene	1600	
79-34-5	1,1,2,2-Tetrachloroethane	1400	U
541-73-1	1,3-Dichlorobenzene	1400	U
106-46-7	1,4-Dichlorobenzene	1400	U
95-50-1	1,2-Dichlorobenzene	1400	U
96-12-8	1,2-Dibromo-3-chloropropane	1400	U
120-82-1	1,2,4-Trichlorobenzene	7000	U
87-61-6	1,2,3-Trichlorobenzene	7000	U
87-68-3	Hexachlorobutadiene	1400	U
67-72-1	Hexachloroethane	2800	U
91-20-3	Napnthalene	620000	E → "
630-20-6	1,1,1,2-Tetrachloroethane	1400	U
96-18-4	1,2,3-Trichloropropane	1400	U

8/22/08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K69

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.14

Sample wt/vol: 3.400 (g/mL) G Lab File ID: B16404

Level: (TRACE or LOW/MED) MED Date Received: 05/17/2008

% Moisture: not dec. 35 Date Analyzed: 05/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 10 (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.14	9400	JBN
02	000611-14-3	Benzene, 1-ethyl-2-methyl-	15.46	34000	NJ
03	000611-14-3	Benzene, 1-ethyl-2-methyl-	15.99	11000	NJ
04	000526-73-8	Benzene, 1,2,3-trimethyl-	16.32	68000	NJ
05	000526-73-8	Benzene, 1,2,3-trimethyl-	17.09	28000	NJ
06	000496-11-7	Indane	17.30	18000	NJ
07	000095-15-8	Benzo[b]thiophene	21.33	10000	NJ
08	000090-12-0	Naphthalene, 1-methyl-	23.25	72000	NJ
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A		

1 EPA-designated Registry Number.

SOM01.2 (6/2007)

5/22/08

39273

Report Only m,p-Xylene & Naphthalene

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K69DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.14DL

Sample wt/vol: 3.400 (g/mL) G Lab File ID: B16400

Level: (TRACE/LOW/MED) MED Date Received: 05/17/2008

% Moisture: not dec. 35 Date Analyzed: 05/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 1 (uL)

Purge Volume: 5.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	14000	U
74-87-3	Chloromethane	14000	U
75-01-4	Vinyl chloride	14000	U
74-83-9	Bromomethane	14000	U
75-00-3	Chloroethane	14000	U
75-69-4	Trichlorofluoromethane	14000	U
75-35-4	1,1-Dichloroethene	14000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14000	U
67-64-1	Acetone	70000	U
75-15-0	Carbon disulfide	14000	U
79-20-9	Methyl acetate	14000	U
75-09-2	Methylene chloride	12000	DJB
156-60-5	trans-1,2-Dichloroethene	14000	U
1634-04-4	Methyl tert-butyl ether	14000	U
75-34-3	1,1-Dichloroethane	14000	U
156-59-2	cis-1,2-Dichloroethene	14000	U
78-93-3	2-Butanone	70000	U
74-97-5	Bromochloromethane	14000	U
67-66-3	Chloroform	14000	U
71-55-6	1,1,1-Trichloroethane	14000	U
110-82-7	Cyclohexane	14000	U
56-23-5	Carbon tetrachloride	14000	U
71-43-2	Benzene	15000	D
107-06-2	1,2-Dichloroethane	14000	U
123-91-1	1,4-Dioxane	1400000	U
79-01-6	Trichloroethene	14000	U
108-87-2	Methylcyclohexane	14000	U
78-87-5	1,2-Dichloropropane	14000	U
75-27-4	Bromodichloromethane	14000	U
10061-01-5	cis-1,3-Dichloropropene	14000	U
108-10-1	4-Methyl-2-pentanone	70000	U
108-88-3	Toluene	7400	DJB
10061-02-6	trans-1,3-Dichloropropene	14000	U
79-00-5	1,1,2-Trichloroethane	14000	U

8/22/08

SOM01.2 (6/2007)

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K69DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.14DL

Sample wt/vol: 3.400 (g/mL) G Lab File ID: B16400

Level: (TRACE/LOW/MED) MED Date Received: 05/17/2008

% Moisture: not dec. 35 Date Analyzed: 05/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 1 (uL)

Purge Volume: 5.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
127-18-4	Tetrachloroethene	14000	U	
591-78-6	2-Hexanone	70000	U	
124-48-1	Dibromochloromethane	14000	U	
106-93-4	1,2-Dibromoethane	14000	U	
108-90-7	Chlorobenzene	14000	U	
100-41-4	Ethylbenzene	24000	D	
95-47-6	o-Xylene	51000	D	
179601-23-1	m,p-Xylene	55000	~~D~~	→ Report
100-42-5	Styrene	14000	U	
75-25-2	Bromoform	14000	U	
98-82-8	Isopropylbenzene	14000	U	
79-34-5	1,1,2,2-Tetrachloroethane	14000	U	
541-73-1	1,3-Dichlorobenzene	14000	U	
106-46-7	1,4-Dichlorobenzene	14000	U	
95-50-1	1,2-Dichlorobenzene	14000	U	
96-12-8	1,2-Dibromo-3-chloropropane	14000	U	
120-82-1	1,2,4-Trichlorobenzene	70000	U	
87-61-6	1,2,3-Trichlorobenzene	70000	U	
87-68-3	Hexachlorobutadiene	14000	U	
67-72-1	Hexachloroethane	28000	U	
91-20-3	Naphthalene	680000	~~DE~~ J	→ Report
630-20-6	1,1,1,2-Tetrachloroethane	14000	U	
96-18-4	1,2,3-Trichloropropane	14000	U	

8/22/08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K69DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.14DL

Sample wt/vol: 3.400 (g/mL) G Lab File ID: B16400

Level: (TRACE or LOW/MED) MED Date Received: 05/17/2008

% Moisture: not dec. 35 Date Analyzed: 05/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.14	110000	DJB
02	000611-14-3	Benzene, 1-ethyl-2-methyl-	15.46	38000	DNJ
03	000526-73-8	Benzene, 1,2,3-trimethyl-	15.65	31000	DNJ
04		Unknown-02	16.33	79000	DJ
05	000622-96-8	Benzene, 1-ethyl-4-methyl-	17.09	37000	DNJ
06	000496-11-7	Indane	17.30	21000	DNJ
07	000090-12-0	Naphthalene, 1-methyl-	23.54	39000	DNJ
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	60000	DJ

[1] EPA-designated Registry Number.

8/22/08

BREMERTON-013085

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K69

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.14

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0847

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 35 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
84-66-2	Diethylphthalate	31	UJ	
86-73-7	Fluorene	450	J	
7005-72-3	4-Chlorophenyl-phenylether	31	UJ	
100-01-6	4-Nitroaniline	61	U	
534-52-1	4,6-Dinitro-2-methylphenol	61	U	
86-30-6	N-Nitrosodiphenylamine 1	31	UJ	
95-94-3	1,2,4,5-Tetrachlorobenzene	31	U	
101-55-3	4-Bromophenyl-phenylether	31	U	
118-74-1	Hexachlorobenzene	31	U	
1912-24-9	Atrazine	31	U	
87-86-5	Pentachlorophenol	31	U	
85-01-8	Phenanthrene	1400	E	Report from J8K69DL
120-12-7	Anthracene	700	E	"
86-74-8	Carbazole	120	J	
84-74-2	Di-n-butylphthalate	31	UJ	
206-44-0	Fluoranthene	3900	E	"
129-00-0	Pyrene	21000	E	"
85-68-7	Butylbenzylphthalate	31	UJ	
91-94-1	3,3'-Dichlorobenzidine	31	U	
56-55-3	Benzo(a)anthracene	12000	E	"
218-01-9	Chrysene	36000	E	"
117-81-7	Bis(2-ethylhexyl)phthalate	31	UJ	
117-84-0	Di-n-octylphthalate	31	UJ	
205-99-2	Benzo(b)fluoranthene	27000	E	"
207-08-9	Benzo(k)fluoranthene	7200	E	"
50-32-8	Benzo(a)pyrene	30000	E	Report from J8K69DL
193-39-5	Indeno(1,2,3-cd)pyrene	25000	E	"
53-70-3	Dibenzo(a,h)anthracene	13000	E	Report from J8K69DL
191-24-2	Benzo(g,h,i)perylene	25000	E	Report from J8K69DL2
58-90-2	2,3,4,6-Tetrachlorophenol	31	U	
92-87-5	Benzidine	31	U	
95-50-1	1,2-Dichlorobenzene	31	U	
106-46-7	1,4-Dichlorobenzene	31	U	
541-73-1	1,3-Dichlorobenzene	31	U	
62-75-9	N-Nitrosodimethylamine	31	U	
95-63-6	1,2,4-Trimethylbenzene	31	U	
108-67-8	1,3,5-Trimethylbenzene	31	U	

1 Cannot be separated from Diphenylamine

8/28/08

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K69

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.14

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0847

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 35 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000694-87-1	Bicyclo[4.2.0]octa-1,3,5-trie	3.82	240	NJ
02	000766-90-5	cis-.beta.-Methylstyrene	5.47	170	NJ
03		Unknown-01	5.53	150	JN
04	013125-70-7	(1-(Methylthio)ethyl)benzene	7.62	260	NJ
05	000271-17-0	Cyclopenta[b]thiapyran	8.69	110	NJ
06		Unknown-02	9.14	150	JN
07		Unknown-03	9.22	110	J
08		Unknown-04	10.10	110	J
09	000090-12-0	Naphthalene, 1-methyl-	10.43	150	NJ
10	000575-41-7	Naphthalene, 1,3-dimethyl-	11.79	110	NJ
11	000829-26-5	Naphthalene, 2,3,6-trimethyl-	12.92	150	NJ
12		Unknown-05	13.08	230	JN
13	000086-73-7	Fluorene	13.36	230	NJ
14		Unknown-06	15.84	630	JN
15		Unknown-07	16.14	690	J
16		Unknown-08	16.40	190	J
17		Unknown-09	16.50	110	J
18	002381-21-7	Pyrene, 1-methyl-	16.62	200	NJ
19	064401-21-4	Pyrene, 1,3-dimethyl-	16.81	140	NJ
20	000479-79-8	11H-Benzo[a]fluoren-11-one	16.91	140	NJ
21		Unknown-10	17.50	190	JN
22	000239-01-0	11H-Benzo[a]carbazole	17.57	170	NJ
23	001705-85-7	Chrysene, 6-methyl-	17.75	140	NJ
24		Unknown-11	17.92	220	JN
25	000612-73-2	2,2'-Binaphthalene	17.93	190	NJ
26		Unknown-12	18.20	120	JN
27		Unknown-13	19.33	210	J
28		Unknown-14	19.44	130	J
29		Unknown-15	21.67	280	J
30	000191-26-4	Dibenzo[def,mno]chrysene	22.41	230	NJ
	E9667962	Total Alkanes	N/A		

2 EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

01631

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K69DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.14DL

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0850

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 35 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 20.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	610	U
108-95-2	Phenol	610	U
111-44-4	Bis(2-chloroethyl)ether	610	U
95-57-8	2-Chlorophenol	610	U
95-48-7	2-Methylphenol	610	U
108-60-1	2,2'-Oxybis(1-chloropropane)	610	U
98-86-2	Acetophenone	610	U
106-44-5	4-Methylphenol	610	U
621-64-7	N-Nitroso-di-n-propylamine	610	U
67-72-1	Hexachloroethane	610	U
98-95-3	Nitrobenzene	610	U
78-59-1	Isophorone	610	U
88-75-5	2-Nitrophenol	610	U
105-67-9	2,4-Dimethylphenol	610	U
111-91-1	Bis(2-chloroethoxy)methane	610	U
120-83-2	2,4-Dichlorophenol	610	U
91-20-3	Naphthalene	860	~~D~~ → Report
106-47-8	4-Chloroaniline	610	U
87-68-3	Hexachlorobutadiene	610	U
105-60-2	Caprolactam	610	U
59-50-7	4-Chloro-3-methylphenol	610	U
91-57-6	2-Methylnaphthalene	610	U
77-47-4	Hexachlorocyclopentadiene	1500	U
88-06-2	2,4,6-Trichlorophenol	610	U
95-95-4	2,4,5-Trichlorophenol	610	U
92-52-4	1,1'-Biphenyl	610	U
91-58-7	2-Chloronaphthalene	610	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	610	U
606-20-2	2,6-Dinitrotoluene	610	U
208-96-8	Acenaphthylene	2400	~~U~~ → Report
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	610	U
51-28-5	2,4-Dinitrophenol	3100	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	610	U
121-14-2	2,4-Dinitrotoluene	610	U

8/22/08

BREMERTON-013088

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K69DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.14DL

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0850

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 35 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 20.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	610	U
86-73-7	Fluorene	550	DJ
7005-72-3	4-Chlorophenyl-phenylether	610	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine 1	610	U
95-94-3	1,2,4,5-Tetrachlorobenzene	610	U
101-55-3	4-Bromophenyl-phenylether	610	U
118-74-1	Hexachlorobenzene	610	U
1912-24-9	Atrazine	610	U
87-86-5	Pentachlorophenol	610	U
85-01-8	Phenanthrene	8300	~~D~~ → Report
120-12-7	Anthracene	2800	~~D~~ → "
86-74-8	Carbazole	320	DJ
84-74-2	Di-n-butylphthalate	610	U
206-44-0	Fluoranthene	35000	~~DE~~ J → "
129-00-0	Pyrene	22000	~~DE~~ J → "
85-68-7	Butylbenzylphthalate	610	U
91-94-1	3,3'-Dichlorobenzidine	610	U
56-55-3	Benzo(a)anthracene	14000	~~DE~~ J → "
218-01-9	Chrysene	16000	~~DE~~ J → "
117-81-7	Bis(2-ethylhexyl)phthalate	610	U
117-84-0	Di-n-octylphthalate	610	U
205-99-2	Benzo(b)fluoranthene	15000	~~DE~~ J → "
207-08-9	Benzo(k)fluoranthene	13000	~~DE~~ J → "
50-32-8	Benzo(a)pyrene	23000	DE
193-39-5	Indeno(1,2,3-cd)pyrene	15000	DE
53-70-3	Dibenzo(a,h)anthracene	4500	~~D~~ → Report
191-24-2	Benzo(g,h,i)perylene	13000	DE
58-90-2	2,3,4,6-Tetrachlorophenol	610	U
92-87-5	Benzidine	610	U
95-50-1	1,2-Dichlorobenzene	610	U
106-46-7	1,4-Dichlorobenzene	610	U
541-73-1	1,3-Dichlorobenzene	610	U
62-75-9	N-Nitrosodimethylamine	610	U
95-63-6	1,2,4-Trimethylbenzene	610	U
108-67-8	1,3,5-Trimethylbenzene	610	U

1 Cannot be separated from Diphenylamine

8/22/08

BREMERTON-013089

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: J8K69DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.14DL

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0850

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 35 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 20.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	18.26	6000	DJ
02	000192-97-2	Benzo[e]pyrene	18.73	5900	DNJ
03	000198-55-0	Perylene	19.00	6900	DNJ
04		Unknown-02	19.42	5100	DJ
05		Unknown-03	19.51	5300	DJ
06		Unknown-04	19.59	8900	DJ
07		Unknown-05	19.84	6900	DJ
08		Unknown-06	19.97	4400	DJ
09		Unknown-07	20.03	5500	DJ
10		Unknown-08	20.23	4600	DJ
11		Unknown-09	20.42	7100	DJ
12		Unknown-10	20.84	4900	DJ
13		Unknown-11	21.08	9600	DJ
14		Unknown-12	21.66	8400	DJ
15		Unknown-13	22.30	7600	DJ
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966756[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

8/22/08

31498

BREMERTON-013090

1D - FORM I SV-1 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K69DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.14DL2

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0851

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 35 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1000.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	31000	U
108-95-2	Phenol	31000	U
111-44-4	Bis(2-chloroethyl)ether	31000	U
95-57-8	2-Chlorophenol	31000	U
95-48-7	2-Methylphenol	31000	U
108-60-1	2,2'-Oxybis(1-chloropropane)	31000	U
98-86-2	Acetophenone	31000	U
106-44-5	4-Methylphenol	31000	U
621-64-7	N-Nitroso-di-n-propylamine	31000	U
67-72-1	Hexachloroethane	31000	U
98-95-3	Nitrobenzene	31000	U
78-59-1	Isophorone	31000	U
88-75-5	2-Nitrophenol	31000	U
105-67-9	2,4-Dimethylphenol	31000	U
111-91-1	Bis(2-chloroethoxy)methane	31000	U
120-83-2	2,4-Dichlorophenol	31000	U
91-20-3	Naphthalene	31000	U
106-47-8	4-Chloroaniline	31000	U
87-68-3	Hexachlorobutadiene	31000	U
105-60-2	Caprolactam	31000	U
59-50-7	4-Chloro-3-methylphenol	31000	U
91-57-6	2-Methylnaphthalene	31000	U
77-47-4	Hexachlorocyclopentadiene	77000	U
88-06-2	2,4,6-Trichlorophenol	31000	U
95-95-4	2,4,5-Trichlorophenol	31000	U
92-52-4	1,1'-Biphenyl	31000	U
91-58-7	2-Chloronaphthalene	31000	U
88-74-4	2-Nitroaniline	61000	U
131-11-3	Dimethylphthalate	31000	U
606-20-2	2,6-Dinitrotoluene	31000	U
208-96-8	Acenaphthylene	31000	U
99-09-2	3-Nitroaniline	61000	U
83-32-9	Acenaphthene	31000	U
51-28-5	2,4-Dinitrophenol	150000	U
100-02-7	4-Nitrophenol	61000	U
132-64-9	Dibenzofuran	31000	U
121-14-2	2,4-Dinitrotoluene	31000	U

8/22/08

BREMERTON-013091

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K69DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.14DL2

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0851

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 35 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1000.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	31000	U
86-73-7	Fluorene	31000	U
7005-72-3	4-Chlorophenyl-phenylether	31000	U
100-01-6	4-Nitroaniline	61000	U
534-52-1	4,6-Dinitro-2-methylphenol	61000	U
86-30-6	N-Nitrosodiphenylamine 1	31000	U
95-94-3	1,2,4,5-Tetrachlorobenzene	31000	U
101-55-3	4-Bromophenyl-phenylether	31000	U
118-74-1	Hexachlorobenzene	31000	U
1912-24-9	Atrazine	31000	U
87-86-5	Pentachlorophenol	31000	U
85-01-8	Phenanthrene	31000	U
120-12-7	Anthracene	31000	U
86-74-8	Carbazole	31000	U
84-74-2	Di-n-butylphthalate	31000	U
206-44-0	Fluoranthene	18000	DJ
129-00-0	Pyrene	21000	DJ
85-68-7	Butylbenzylphthalate	31000	U
91-94-1	3,3'-Dichlorobenzidine	31000	U
56-55-3	Benzo(a)anthracene	31000	U
218-01-9	Chrysene	31000	U
117-81-7	Bis(2-ethylhexyl)phthalate	31000	U
117-84-0	Di-n-octylphthalate	31000	U
205-99-2	Benzo(b)fluoranthene	16000	DJ
207-08-9	Benzo(k)fluoranthene	22000	DJ
50-32-8	Benzo(a)pyrene	36000	J → Report
193-39-5	Indeno(1,2,3-cd)pyrene	67000	J → "
53-70-3	Dibenzo(a,h)anthracene	31000	U
191-24-2	Benzo(g,h,i)perylene	33000	J → "
58-90-2	2,3,4,6-Tetrachlorophenol	31000	U
92-87-5	Benzidine	31000	U
95-50-1	1,2-Dichlorobenzene	31000	U
106-46-7	1,4-Dichlorobenzene	31000	U
541-73-1	1,3-Dichlorobenzene	31000	U
62-75-9	N-Nitrosodimethylamine	31000	U
95-63-6	1,2,4-Trimethylbenzene	31000	U
108-67-8	1,3,5-Trimethylbenzene	31000	U

1 Cannot be separated from Diphenylamine

8/22/08

BREMERTON-013092

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K69DL2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.14DL2

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0851

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 35 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1000.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	16.61	280000	DJ
02		Unknown-02	18.27	210000	DJ
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

8/22/08

01745

DO NOT REKEY

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K69RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.14RE

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0849

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 35 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	31	U
108-95-2	Phenol	31	U
111-44-4	Bis(2-chloroethyl)ether	31	U
95-57-8	2-Chlorophenol	31	U
95-48-7	2-Methylphenol	31	U
108-60-1	2,2'-Oxybis(1-chloropropane)	31	U
98-86-2	Acetophenone	41	
106-44-5	4-Methylphenol	31	U
621-64-7	N-Nitroso-di-n-propylamine	31	U
67-72-1	Hexachloroethane	31	U
98-95-3	Nitrobenzene	31	U
78-59-1	Isophorone	31	U
88-75-5	2-Nitrophenol	31	U
105-67-9	2,4-Dimethylphenol	31	U
111-91-1	Bis(2-chloroethoxy)methane	31	U
120-83-2	2,4-Dichlorophenol	31	U
91-20-3	Naphthalene	700	EB
106-47-8	4-Chloroaniline	31	U
87-68-3	Hexachlorobutadiene	31	U
105-60-2	Caprolactam	31	U
59-50-7	4-Chloro-3-methylphenol	31	U
91-57-6	2-Methylnaphthalene	220	
77-47-4	Hexachlorocyclopentadiene	77	U
88-06-2	2,4,6-Trichlorophenol	31	U
95-95-4	2,4,5-Trichlorophenol	31	U
92-52-4	1,1'-Biphenyl	63	
91-58-7	2-Chloronaphthalene	31	U
88-74-4	2-Nitroaniline	61	U
131-11-3	Dimethylphthalate	31	U
606-20-2	2,6-Dinitrotoluene	31	U
208-96-8	Acenaphthylene	1600	E
99-09-2	3-Nitroaniline	61	U
83-32-9	Acenaphthene	55	
51-28-5	2,4-Dinitrophenol	150	U
100-02-7	4-Nitrophenol	61	U
132-64-9	Dibenzofuran	63	
121-14-2	2,4-Dinitrotoluene	31	U

8/22/08

1E - FORM I SV-2 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K69RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.14RE

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0849

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 35 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	31	U
86-73-7	Fluorene	540	E
7005-72-3	4-Chlorophenyl-phenylether	31	U
100-01-6	4-Nitroaniline	61	U
534-52-1	4,6-Dinitro-2-methylphenol	61	U
86-30-6	N-Nitrosodiphenylamine 1	31	U
95-94-3	1,2,4,5-Tetrachlorobenzene	31	U
101-55-3	4-Bromophenyl-phenylether	31	U
118-74-1	Hexachlorobenzene	31	U
1912-24-9	Atrazine	31	U
87-86-5	Pentachlorophenol	31	U
85-01-8	Phenanthrene	1500	E
120-12-7	Anthracene	760	E
86-74-8	Carbazole	120	
84-74-2	Di-n-butylphthalate	31	U
206-44-0	Fluoranthene	4200	E
129-00-0	Pyrene	31000	E
85-68-7	Butylbenzylphthalate	31	U
91-94-1	3,3'-Dichlorobenzidine	31	U
56-55-3	Benzo(a)anthracene	16000	E
218-01-9	Chrysene	52000	E
117-81-7	Bis(2-ethylhexyl)phthalate	31	U
117-84-0	Di-n-octylphthalate	31	U
205-99-2	Benzo(b)fluoranthene	54000	E
207-08-9	Benzo(k)fluoranthene	12000	E
50-32-8	Benzo(a)pyrene	62000	E
193-39-5	Indeno(1,2,3-cd)pyrene	57000	E
53-70-3	Dibenzo(a,h)anthracene	22000	E
191-24-2	Benzo(g,h,i)perylene	49000	E
58-90-2	2,3,4,6-Tetrachlorophenol	31	U
92-87-5	Benzidine	31	U
95-50-1	1,2-Dichlorobenzene	31	U
106-46-7	1,4-Dichlorobenzene	31	U
541-73-1	1,3-Dichlorobenzene	31	U
62-75-9	N-Nitrosodimethylamine	31	U
95-63-6	1,2,4-Trimethylbenzene	31	U
108-67-8	1,3,5-Trimethylbenzene	31	U

1 Cannot be separated from Diphenylamine

8/22/08

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K69RE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.14RE

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0849

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 35 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000694-87-1	Bicyclo[4.2.0]octa-1,3,5-trie	3.83	330	NJ
02	000100-80-1	Benzene, 1-ethenyl-3-methyl-	5.48	210	NJ
03		Unknown-01	5.53	230	J
04	000673-32-5	Benzene, 1-propynyl-	6.33	150	NJ
05		Unknown-02	7.63	400	J
06	000271-17-0	Cyclopenta[b]thiapyran	8.71	120	NJ
07		Unknown-03	9.15	190	J
08		Unknown-04	9.23	140	J
09		Unknown-05	9.30	110	J
10		Unknown-06	10.11	130	J
11	000264-09-5	Benzocycloheptatriene	10.45	160	NJ
12	000582-16-1	Naphthalene, 2,7-dimethyl-	11.64	110	NJ
13	000575-41-7	Naphthalene, 1,3-dimethyl-	11.81	120	NJ
14	002131-42-2	Naphthalene, 1,4,6-trimethyl-	12.94	150	NJ
15	000203-80-5	1H-Phenalene	13.09	230	NJ
16	000086-73-7	Fluorene	13.38	240	NJ
17		Unknown-07	16.16	660	J
18		Unknown-08	16.42	150	J
19	064401-21-4	Pyrene, 1,3-dimethyl-	16.83	130	NJ
20	000479-79-8	11H-Benzo[a]fluoren-11-one	16.93	130	NJ
21		Unknown-09	17.40	880	J
22	000082-05-3	7H-Benz[de]anthracen-7-one	17.53	180	NJ
23	034777-33-8	Benzo(c)carbazole	17.59	160	NJ
24	003351-28-8	Chrysene, 1-methyl-	17.78	140	NJ
25		Unknown-10	17.94	220	J
26	000612-78-2	2,2'-Binaphthalene	18.01	170	NJ
27		Unknown-11	18.23	110	J
28		Unknown-12	19.32	400	J
29		Unknown-13	19.50	110	J
30	000191-26-4	Dibenzo[def, mno]chrysene	22.51	210	NJ
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

01769

DO NOT REPORT

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K69

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.14

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0976

Extraction: (Type) SONC

% Moisture: 35 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2008

GPC Cleanup: (Y/N) Y pH: 5.1 Dilution Factor: 1000.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	190000	E
91-57-6	2-Methylnaphthalene	63000	E
208-96-8	Acenaphthylene	1500	U
83-32-9	Acenaphthene	1500	U
86-73-7	Fluorene	6900	
87-86-5	Pentachlorophenol	3100	U
85-01-8	Phenanthrene	29000	E
120-12-7	Anthracene	8900	
206-44-0	Fluoranthene	22000	E
129-00-0	Pyrene	27000	E
56-55-3	Benzo(a)anthracene	7500	
218-01-9	Chrysene	13000	
205-99-2	Benzo(b)fluoranthene	3600	
207-08-9	Benzo(k)fluoranthene	6200	
50-32-8	Benzo(a)pyrene	6700	
193-39-5	Indeno(1,2,3-cd)pyrene	2600	
53-70-3	Dibenzo(a,h)anthracene	1500	U
191-24-2	Benzo(g,h,i)perylene	3200	

[1] Cannot be separated from Diphenylamine

8/22/08

SOM01.2 (6/2007)

925A2

Report All but Naphthalene (F report from J8K70ME)

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K70

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.15

Sample wt/vol: 5.000 (g/mL) G Lab File ID: B16358

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.3	U
74-87-3	Chloromethane	1.3	U
75-01-4	Vinyl chloride	1.3	U
74-83-9	Bromomethane	1.3	U
75-00-3	Chloroethane	1.3	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	1.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	U
67-64-1	Acetone	47	
75-15-0	Carbon disulfide	1.3	U
79-20-9	Methyl acetate	1.3	U
75-09-2	Methylene chloride	1.3 ~~0.82~~	~~J~~ U
156-60-5	trans-1,2-Dichloroethene	1.3	U
1634-04-4	Methyl tert-butyl ether	1.3	U
75-34-3	1,1-Dichloroethane	1.3	U
156-59-2	cis-1,2-Dichloroethene	1.3	U
78-93-3	2-Butanone	6.4	U
74-97-5	Bromochloromethane	1.3	U
67-66-3	Chloroform	1.3	U
71-55-6	1,1,1-Trichloroethane	1.3	U
110-82-7	Cyclohexane	1.3	U
56-23-5	Carbon tetrachloride	1.3	U
71-43-2	Benzene	1.6	
107-06-2	1,2-Dichloroethane	1.3	U
123-91-1	1,4-Dioxane	130	U
79-01-6	Trichloroethene	1.3	U
108-87-2	Methylcyclohexane	1.3	U
78-87-5	1,2-Dichloropropane	1.3	U
75-27-4	Bromodichloromethane	1.3	U
10061-01-5	cis-1,3-Dichloropropene	1.3	U
108-10-1	4-Methyl-2-pentanone	6.4	U
108-88-3	Toluene	0.98	J Q
10061-02-6	trans-1,3-Dichloropropene	1.3	U
79-00-5	1,1,2-Trichloroethane	1.3	U

8/22/08

SOM01.2 (6/2007)

00123

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K70

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.15

Sample wt/vol: 5.000 (g/mL) G Lab File ID: B16358

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.3	U
591-78-6	2-Hexanone	6.4	UJ
124-48-1	Dibromochloromethane	1.3	U
106-93-4	1,2-Dibromoethane	1.3	U
108-90-7	Chlorobenzene	1.3	U
100-41-4	Ethylbenzene	10	
95-47-6	o-Xylene	14	
179601-23-1	m,p-Xylene	14	
100-42-5	Styrene	1.5	
75-25-2	Bromoform	1.3	U
98-82-8	Isopropylbenzene	0.94	JQ
79-34-5	1,1,2,2-Tetrachloroethane	1.3	U
541-73-1	1,3-Dichlorobenzene	1.3	U
106-46-7	1,4-Dichlorobenzene	1.3	U
95-50-1	1,2-Dichlorobenzene	1.3	U
96-12-8	1,2-Dibromo-3-chloropropane	1.3	U
120-82-1	1,2,4-Trichlorobenzene	6.4	U
87-61-6	1,2,3-Trichlorobenzene	6.4	U
87-68-3	Hexachlorobutadiene	1.3	U
67-72-1	Hexachloroethane	2.6	U
91-20-3	Naphthalene	800	E → Report from J8K70ME
630-20-6	1,1,1,2-Tetrachloroethane	1.3	U
96-18-4	1,2,3-Trichloropropane	1.3	U

5/22/08

BREMERTON-013099

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K70

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.15

Sample wt/vol: 5.000 (g/mL) G Lab File ID: B16358

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/24/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000611-14-3	Benzene, 1-ethyl-2-methyl-	15.46	45	NJ
02	000526-73-8	Benzene, 1,2,3-trimethyl-	15.65	32	NJ
03	000098-83-9	.alpha.-Methylstyrene	16.08	23	NJ
04	000526-73-8	Benzene, 1,2,3-trimethyl-	16.32	130	NJ
05	000526-73-8	Benzene, 1,2,3-trimethyl-	17.09	63	NJ
06	000637-50-3	Benzene, 1-propenyl-	17.29	130	NJ
07	000535-77-3	Benzene, 1-methyl-3-(1-methyl	17.54	31	NJ
08	000095-13-6	Indene	17.87	300	NJ
09	000874-41-9	Benzene, 1-ethyl-2,4-dimethyl	18.09	47	NJ
10		Unknown-01	18.22	50	JN
11		Unknown-02	18.22	25	JN
12	000527-53-7	Benzene, 1,2,3,5-tetramethyl-	18.98	41	NJ
13	000527-53-7	Benzene, 1,2,3,5-tetramethyl-	19.07	63	NJ
14		Unknown-03	19.42	39	JN
15	000824-22-6	1H-Indene, 2,3-dihydro-4-meth	19.76	38	NJ
16	000535-77-3	Benzene, 1-methyl-3-(1-methyl	19.83	83	NJ
17	000767-59-9	1H-Indene, 1-methyl-	19.97	37	NJ
18	002177-47-1	2-Methylindene	20.02	97	NJ
19	065051-83-4	Benzene, (1-methyl-2-cyclopro	20.19	22	NJ
20	065051-83-4	Benzene, (1-methyl-2-cyclopro	20.28	95	NJ
21	002177-47-1	2-Methylindene	20.32	49	NJ
22	056253-64-6	Benzene, (2-methyl-1-butenyl)	20.48	36	NJ
23	017057-82-8	1H-Indene, 2,3-dihydro-1,2-di	20.64	26	NJ
24		Unknown-04	21.02	29	JN
25	000095-15-8	Benzo[b]thiophene	21.32	44	NJ
26	006682-71-9	1H-Indene, 2,3-dihydro-4,7-di	21.94	23	NJ
27	000091-57-6	Naphthalene, 2-methyl-	23.24	230	NJ
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	49	JN

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

BREMERTON-013100

Report Only Naphthalene

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K70ME

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.15ME

Sample wt/vol: 5.100 (g/mL) G Lab File ID: B16414

Level: (TRACE/LOW/MED) MED Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 25 (uL)

Purge Volume: 5.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	310	U
74-87-3	Chloromethane	310	U
75-01-4	Vinyl chloride	310	U
74-83-9	Bromomethane	310	U
75-00-3	Chloroethane	310	U
75-69-4	Trichlorofluoromethane	310	U
75-35-4	1,1-Dichloroethene	310	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	310	U
67-64-1	Acetone	1500	U
75-15-0	Carbon disulfide	310	U
79-20-9	Methyl acetate	310	U
75-09-2	Methylene chloride	430	BU
156-60-5	trans-1,2-Dichloroethene	310	U
1634-04-4	Methyl tert-butyl ether	310	U
75-34-3	1,1-Dichloroethane	310	U
156-59-2	cis-1,2-Dichloroethene	310	U
78-93-3	2-Butanone	1500	U
74-97-5	Bromochloromethane	310	U
67-66-3	Chloroform	310	U
71-55-6	1,1,1-Trichloroethane	310	U
110-82-7	Cyclohexane	310	U
56-23-5	Carbon tetrachloride	310	U
71-43-2	Benzene	310	U
107-06-2	1,2-Dichloroethane	310	U
123-91-1	1,4-Dioxane	31000	U
79-01-6	Trichloroethene	310	U
108-87-2	Methylcyclohexane	310	U
78-87-5	1,2-Dichloropropane	310	U
75-27-4	Bromodichloromethane	310	U
10061-01-5	cis-1,3-Dichloropropene	310	U
108-10-1	4-Methyl-2-pentanone	1500	U
108-88-3	Toluene	310	U
10061-02-6	trans-1,3-Dichloropropene	310	U
79-00-5	1,1,2-Trichloroethane	310	U

8/22/08

SOM01.2 (6/2007)

38369

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K70ME

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.15ME

Sample wt/vol: 5.100 (g/mL) G Lab File ID: B16414

Level: (TRACE/LOW/MED) MED Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 25 (uL)

Purge Volume: 5.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	310	U
591-78-6	2-Hexanone	1500	U
124-48-1	Dibromochloromethane	310	U
106-93-4	1,2-Dibromoethane	310	U
108-90-7	Chlorobenzene	310	U
100-41-4	Ethylbenzene	310	U
95-47-6	o-Xylene	310	U
179601-23-1	m,p-Xylene	310	U
100-42-5	Styrene	310	U
75-25-2	Bromoform	310	U
98-82-8	Isopropylbenzene	310	U
79-34-5	1,1,2,2-Tetrachloroethane	310	U
541-73-1	1,3-Dichlorobenzene	310	U
106-46-7	1,4-Dichlorobenzene	310	U
95-50-1	1,2-Dichlorobenzene	310	U
96-12-8	1,2-Dibromo-3-chloropropane	310	U
120-82-1	1,2,4-Trichlorobenzene	1500	U
87-61-6	1,2,3-Trichlorobenzene	1500	U
87-68-3	Hexachlorobutadiene	310	U
67-72-1	Hexachloroethane	620	U
91-20-3	Naphthalene	9500	~~U~~ → Report
630-20-6	1,1,1,2-Tetrachloroethane	310	U
96-18-4	1,2,3-Trichloropropane	310	U

8/22/08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K70ME

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.15ME

Sample wt/vol: 5.100 (g/mL) G Lab File ID: B16414

Level: (TRACE or LOW/MED) MED Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/26/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: 25 (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.61	630	J
02		Unknown-02	11.14	2200	J
03	000526-73-8	Benzene, 1,2,3-trimethyl-	16.33	570	NJ
04	000673-32-5	Benzene, 1-propynyl-	17.88	790	NJ
05	000933-98-2	Benzene, 1-ethyl-2,3-dimethyl	19.83	470	NJ
06	000767-59-9	1H-Indene, 1-methyl-	20.01	430	NJ
07	000090-12-0	Naphthalene, 1-methyl-	23.54	1200	NJ
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A	1000	J

1 EPA-designated Registry Number.

8/22/08

99371

BREMERTON-013103

Report All But Naphthalene, Acenaphthene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene & Benzo(g,h,i)perylene & Pentachlorophenol

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K70

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.15

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0872

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	26	U
108-95-2	Phenol	23	J Q
111-44-4	Bis(2-chloroethyl)ether	26	U
95-57-8	2-Chlorophenol	26	U
95-48-7	2-Methylphenol	26	U
108-60-1	2,2'-Oxybis(1-chloropropane)	26	U
98-86-2	Acetophenone	26	U
106-44-5	4-Methylphenol	26	U
621-64-7	N-Nitroso-di-n-propylamine	26	U
67-72-1	Hexachloroethane	26	U
98-95-3	Nitrobenzene	26	U
78-59-1	Isophorone	26	U
88-75-5	2-Nitrophenol	26	U
105-67-9	2,4-Dimethylphenol	31	
111-91-1	Bis(2-chloroethoxy)methane	26	U
120-83-2	2,4-Dichlorophenol	26	U
91-20-3	Naphthalene	1300	EB → Report from J8K70DL
106-47-8	4-Chloroaniline	26	U
87-68-3	Hexachlorobutadiene	26	U
105-60-2	Caprolactam	26	U
59-50-7	4-Chloro-3-methylphenol	26	U
91-57-6	2-Methylnaphthalene	350	
77-47-4	Hexachlorocyclopentadiene	64	UJ
88-06-2	2,4,6-Trichlorophenol	26	U
95-95-4	2,4,5-Trichlorophenol	26	U
92-52-4	1,1'-Biphenyl	39	
91-58-7	2-Chloronaphthalene	26	U
88-74-4	2-Nitroaniline	51	U
131-11-3	Dimethylphthalate	26	U
606-20-2	2,6-Dinitrotoluene	26	U
208-96-8	Acenaphthylene	110	
99-09-2	3-Nitroaniline	51	U
83-32-9	Acenaphthene	26	U
51-28-5	2,4-Dinitrophenol	130	UJ
100-02-7	4-Nitrophenol	51	U
132-64-9	Dibenzofuran	17	J Q
121-14-2	2,4-Dinitrotoluene	26	U

8/22/08

1E - FORM I SV-2 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K70

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.15

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0872

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	26	U
86-73-7	Fluorene	72	
7005-72-3	4-Chlorophenyl-phenylether	26	U
100-01-6	4-Nitroaniline	51	U
534-52-1	4,6-Dinitro-2-methylphenol	51	U
86-30-6	N-Nitrosodiphenylamine 1	26	U
95-94-3	1,2,4,5-Tetrachlorobenzene	26	U
101-55-3	4-Bromophenyl-phenylether	26	U
118-74-1	Hexachlorobenzene	26	U
1912-24-9	Atrazine	26	U
87-86-5	Pentachlorophenol	26	UJ
85-01-8	Phenanthrene	160	
120-12-7	Anthracene	18	JQ
86-74-8	Carbazole	26	
84-74-2	Di-n-butylphthalate	26	U
206-44-0	Fluoranthene	61	
129-00-0	Pyrene	78	
85-68-7	Butylbenzylphthalate	26	U
91-94-1	3,3'-Dichlorobenzidine	26	U
56-55-3	Benzo(a)anthracene	19	JQ
218-01-9	Chrysene	21	JQ
117-81-7	Bis(2-ethylhexyl)phthalate	100	
117-84-0	Di-n-octylphthalate	26	U
205-99-2	Benzo(b)fluoranthene	16	JQ
207-08-9	Benzo(k)fluoranthene	16	JQ
50-32-8	Benzo(a)pyrene	20	JQ
193-39-5	Indeno(1,2,3-cd)pyrene	15	JQ
53-70-3	Dibenzo(a,h)anthracene	26	U
191-24-2	Benzo(g,h,i)perylene	21	JQ
58-90-2	2,3,4,6-Tetrachlorophenol	26	U
92-87-5	Benzidine	26	U
95-50-1	1,2-Dichlorobenzene	26	U
106-46-7	1,4-Dichlorobenzene	26	U
541-73-1	1,3-Dichlorobenzene	26	U
62-75-9	N-Nitrosodimethylamine	26	U
95-63-6	1,2,4-Trimethylbenzene	14	JQ
108-67-8	1,3,5-Trimethylbenzene	41	

1 Cannot be separated from Diphenylamine

8/22/08

BREMERTON-013105

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K70

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.15

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0872

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.78	160	JN
02		Unknown-02	3.09	160	J
03		Unknown-03	3.39	95	J
04		Unknown-04	4.42	76	J
05		Unknown-05	4.91	150	J
06	000673-32-5	Benzene, 1-propynyl-	6.31	170	NJ
07		Unknown-06	8.14	110	JN
08		Unknown-07	8.61	99	JN
09	000270-82-6	2-Benzothiophene #	8.68	71	NJ
10	000091-22-5	Quinoline	9.69	120	NJ
11	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.28	380	NJ
12	000090-12-0	Naphthalene, 1-methyl-	10.42	330	NJ
13		Unknown-08	10.59	99	JN
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

#1837

Report Only Naphthalene

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K70DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.15DL

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0903

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/14/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 10.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	260	U
108-95-2	Phenol	260	U
111-44-4	Bis(2-chloroethyl)ether	260	U
95-57-8	2-Chlorophenol	260	U
95-48-7	2-Methylphenol	260	U
108-60-1	2,2'-Oxybis(1-chloropropane)	260	U
98-86-2	Acetophenone	260	U
106-44-5	4-Methylphenol	260	U
621-64-7	N-Nitroso-di-n-propylamine	260	U
67-72-1	Hexachloroethane	260	U
98-95-3	Nitrobenzene	260	U
78-59-1	Isophorone	260	U
88-75-5	2-Nitrophenol	260	U
105-67-9	2,4-Dimethylphenol	260	U
111-91-1	Bis(2-chloroethoxy)methane	260	U
120-83-2	2,4-Dichlorophenol	260	U
91-20-3	Naphthalene	1100	~~DB~~ → Report
106-47-8	4-Chloroaniline	260	U
87-68-3	Hexachlorobutadiene	260	U
105-60-2	Caprolactam	260	U
59-50-7	4-Chloro-3-methylphenol	260	U
91-57-6	2-Methylnaphthalene	330	D
77-47-4	Hexachlorocyclopentadiene	640	U
88-06-2	2,4,6-Trichlorophenol	260	U
95-95-4	2,4,5-Trichlorophenol	260	U
92-52-4	1,1'-Biphenyl	260	U
91-58-7	2-Chloronaphthalene	260	U
88-74-4	2-Nitroaniline	510	U
131-11-3	Dimethylphthalate	260	U
606-20-2	2,6-Dinitrotoluene	260	U
208-96-8	Acenaphthylene	260	U
99-09-2	3-Nitroaniline	510	U
83-32-9	Acenaphthene	260	U
51-28-5	2,4-Dinitrophenol	1300	U
100-02-7	4-Nitrophenol	510	U
132-64-9	Dibenzofuran	260	U
121-14-2	2,4-Dinitrotoluene	260	U

8/22/08

BREMERTON-013107

1E - FORM I SV-2 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K70DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.15DL

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0903

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/14/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 10.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	260	U
86-73-7	Fluorene	260	U
7005-72-3	4-Chlorophenyl-phenylether	260	U
100-01-6	4-Nitroaniline	510	U
534-52-1	4,6-Dinitro-2-methylphenol	510	U
86-30-6	N-Nitrosodiphenylamine 1	260	U
95-94-3	1,2,4,5-Tetrachlorobenzene	260	U
101-55-3	4-Bromophenyl-phenylether	260	U
118-74-1	Hexachlorobenzene	260	U
1912-24-9	Atrazine	260	U
87-86-5	Pentachlorophenol	260	U
85-01-8	Phenanthrene	160	DJ
120-12-7	Anthracene	260	U
86-74-8	Carbazole	260	U
84-74-2	Di-n-butylphthalate	260	U
206-44-0	Fluoranthene	260	U
129-00-0	Pyrene	260	U
85-68-7	Butylbenzylphthalate	260	U
91-94-1	3,3'-Dichlorobenzidine	260	U
56-55-3	Benzo(a)anthracene	260	U
218-01-9	Chrysene	260	U
117-81-7	Bis(2-ethylhexyl)phthalate	130	DJ
117-84-0	Di-n-octylphthalate	260	U
205-99-2	Benzo(b)fluoranthene	260	U
207-08-9	Benzo(k)fluoranthene	260	U
50-32-8	Benzo(a)pyrene	260	U
193-39-5	Indeno(1,2,3-cd)pyrene	260	U
53-70-3	Dibenzo(a,h)anthracene	260	U
191-24-2	Benzo(g,h,i)perylene	260	U
58-90-2	2,3,4,6-Tetrachlorophenol	260	U
92-87-5	Benzidine	260	U
95-50-1	1,2-Dichlorobenzene	260	U
106-46-7	1,4-Dichlorobenzene	260	U
541-73-1	1,3-Dichlorobenzene	260	U
62-75-9	N-Nitrosodimethylamine	260	U
95-63-6	1,2,4-Trimethylbenzene	260	U
108-67-8	1,3,5-Trimethylbenzene	260	U

1 Cannot be separated from Diphenylamine

8/22/08

BREMERTON-013108

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K70DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.15DL

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0903

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/14/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 10.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.27	370	DJ
02		Unknown-02	17.39	510	DJ
03		Unknown-03	17.65	760	DJ
04		Unknown-04	17.89	800	DJ
05		Unknown-05	18.05	740	DJ
06		Unknown-06	18.63	490	DJ
07		Unknown-07	19.33	650	DJ
08		Unknown-08	20.21	370	DJ
09		Unknown-09	21.00	390	DJ
10					
11					
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30					
	E9667962	Total Alkanes	N/A		

2 EPA-designated Registry Number.

8/22/08

11382

Repat Only Acenaphthene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene & Benzo(g,h,i)perylene & Pentachlorophenol

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K70

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.15

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0942

Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1200	E
91-57-6	2-Methylnaphthalene	380	E
208-96-8	Acenaphthylene	130	E
83-32-9	Acenaphthene	12	
86-73-7	Fluorene	64	E
87-86-5	Pentachlorophenol	2.6	U
85-01-8	Phenanthrene	170	E
120-12-7	Anthracene	24	E
206-44-0	Fluoranthene	71	E
129-00-0	Pyrene	89	E
56-55-3	Benzo(a)anthracene	26	E
218-01-9	Chrysene	37	E
205-99-2	Benzo(b)fluoranthene	15	E
207-08-9	Benzo(k)fluoranthene	16	E
50-32-8	Benzo(a)pyrene	25	E
193-39-5	Indeno(1,2,3-cd)pyrene	9.8	
53-70-3	Dibenzo(a,h)anthracene	2.8	J
191-24-2	Benzo(g,h,i)perylene	13	

[1] Cannot be separated from Diphenylamine

8/22/08

Report Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene
Benzo(a)pyrene

1F - FORM I SV-SIM

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K70DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.15DL

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0970

Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 5.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1500	DE
91-57-6	2-Methylnaphthalene	460	DE
208-96-8	Acenaphthylene	160	DE
83-32-9	Acenaphthene	15	D
86-73-7	Fluorene	85	DE
87-86-5	Pentachlorophenol	13	U
85-01-8	Phenanthrene	200	DE
120-12-7	Anthracene	230	DE
206-44-0	Fluoranthene	84	DE
129-00-0	Pyrene	110	DE
56-55-3	Benzo(a)anthracene	30	~~D~~
218-01-9	Chrysene	48	~~D~~
205-99-2	Benzo(b)fluoranthene	18	~~D~~
207-08-9	Benzo(k)fluoranthene	22	~~D~~
50-32-8	Benzo(a)pyrene	32	~~D~~
193-39-5	Indeno(1,2,3-cd)pyrene	12	D
53-70-3	Dibenzo(a,h)anthracene	6.4	U
191-24-2	Benzo(g,h,i)perylene	15	D

Report

[1] Cannot be separated from Diphenylamine

8/22/08

Repeat All but Naphthalene (re see J8K71DL)

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K71

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.16

Sample wt/vol: 5.100 (g/mL) G Lab File ID: B16426

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 21 Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.2	UJ
74-87-3	Chloromethane	1.2	U
75-01-4	Vinyl chloride	1.2	U
74-83-9	Bromomethane	1.2	U
75-00-3	Chloroethane	1.2	U
75-69-4	Trichlorofluoromethane	1.2	U
75-35-4	1,1-Dichloroethene	1.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U
67-64-1	Acetone	24	
75-15-0	Carbon disulfide	1.2	U
79-20-9	Methyl acetate	1.2	UJ
75-09-2	Methylene chloride	2.0	BU
156-60-5	trans-1,2-Dichloroethene	1.2	UJ
1634-04-4	Methyl tert-butyl ether	1.2	U
75-34-3	1,1-Dichloroethane	1.2	U
156-59-2	cis-1,2-Dichloroethene	1.2	U
78-93-3	2-Butanone	6.2	U
74-97-5	Bromochloromethane	1.2	U
67-66-3	Chloroform	1.2	U
71-55-6	1,1,1-Trichloroethane	1.2	U
110-82-7	Cyclohexane	1.2	U
56-23-5	Carbon tetrachloride	1.2	U
71-43-2	Benzene	6.4	
107-06-2	1,2-Dichloroethane	1.2	U
123-91-1	1,4-Dioxane	120	U
79-01-6	Trichloroethene	1.2	U
108-87-2	Methylcyclohexane	1.2	U
78-87-5	1,2-Dichloropropane	1.2	U
75-27-4	Bromodichloromethane	1.2	U
10061-01-5	cis-1,3-Dichloropropene	1.2	U
108-10-1	4-Methyl-2-pentanone	6.2	U
108-88-3	Toluene	1.0	J
10061-02-6	trans-1,3-Dichloropropene	1.2	U
79-00-5	1,1,2-Trichloroethane	1.2	U

8/22/08

SOM01.2 (6/2007)

59331

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K71

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.16

Sample wt/vol: 5.100 (g/mL) G Lab File ID: B16426

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 21 Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.2	UJ
591-78-6	2-Hexanone	6.2	U
124-48-1	Dibromochloromethane	1.2	U
106-93-4	1,2-Dibromoethane	1.2	U
108-90-7	Chlorobenzene	1.2	U
100-41-4	Ethylbenzene	6.1	
95-47-6	o-Xylene	6.5	
179601-23-1	m,p-Xylene	8.0	
100-42-5	Styrene	3.0	
75-25-2	Bromoform	1.2	U
98-82-8	Isopropylbenzene	1.2	U
79-34-5	1,1,2,2-Tetrachloroethane	1.2	U
541-73-1	1,3-Dichlorobenzene	1.2	U
106-46-7	1,4-Dichlorobenzene	1.2	U
95-50-1	1,2-Dichlorobenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.2	U
120-82-1	1,2,4-Trichlorobenzene	6.2	U
87-61-6	1,2,3-Trichlorobenzene	6.2	U
87-68-3	Hexachlorobutadiene	1.2	U
67-72-1	Hexachloroethane	2.5	UJ
91-20-3	Naphthalene	850	E → Repeat from J8K71DL
630-20-6	1,1,1,2-Tetrachloroethane	1.2	UJ
96-18-4	1,2,3-Trichloropropane	1.2	UJ

8/22/08

BREMERTON-013113

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K71

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.16

Sample wt/vol: 5.100 (g/mL) G Lab File ID: B16426

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 21 Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.77	4.0	JN
02		Unknown-02	4.21	4.6	J
03		Unknown-03	4.54	8.8	J
04		Unknown-04	9.79	4.2	J
05		Unknown-05	11.13	7.1	J
06	000611-14-3	Benzene, 1-ethyl-2-methyl-	15.47	9.1	NJ
07	000526-73-8	Benzene, 1,2,3-trimethyl-	15.64	6.8	NJ
08	000611-14-3	Benzene, 1-ethyl-2-methyl-	15.99	6.9	NJ
09	000620-14-4	Benzene, 1-ethyl-3-methyl-	17.08	31	NJ
10	000496-11-7	Indane	17.29	29	NJ
11	000095-13-6	Indene	17.87	170	NJ
12	000874-41-9	Benzene, 1-ethyl-2,4-dimethyl	18.08	4.6	NJ
13	000099-87-6	Benzene, 1-methyl-4-(1-methyl	18.21	3.9	NJ
14	000095-93-2	Benzene, 1,2,4,5-tetramethyl-	19.06	4.0	NJ
15	000527-84-4	Benzene, 1-methyl-2-(1-methyl	19.83	4.3	NJ
16	000270-82-6	2-Benzothiophene #	21.33	14	NJ
17	000090-12-0	Naphthalene, 1-methyl-	23.53	12	NJ
18					
19					
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25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

8/22/08

Repeat Only Naphthalene

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K71DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.16DL

Sample wt/vol: 0.5000 (g/mL) G Lab File ID: B16431

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 21 Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U
67-64-1	Acetone	63	U
75-15-0	Carbon disulfide	13	U
79-20-9	Methyl acetate	13	U
75-09-2	Methylene chloride	15	DB
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl tert-butyl ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-Butanone	63	U
74-97-5	Bromochloromethane	13	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	13	U
56-23-5	Carbon tetrachloride	13	U
71-43-2	Benzene	13	U
107-06-2	1,2-Dichloroethane	13	U
123-91-1	1,4-Dioxane	1300	U
79-01-6	Trichloroethene	13	U
108-87-2	Methylcyclohexane	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	63	U
108-88-3	Toluene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U

8/22/08

SOM01.2 (6/2007)

39427

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K71DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.16DL

Sample wt/vol: 0.5000 (g/mL) G Lab File ID: B16431

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 21 Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	63	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
95-47-6	o-Xylene	13	U
179601-23-1	m,p-Xylene	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	63	U
87-61-6	1,2,3-Trichlorobenzene	63	U
87-68-3	Hexachlorobutadiene	13	U
67-72-1	Hexachloroethane	25	U
91-20-3	Naphthalene	96	~~J~~ → Repeat
630-20-6	1,1,1,2-Tetrachloroethane	13	U
96-18-4	1,2,3-Trichloropropane	13	U

8/22/08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K71DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.16DL

Sample wt/vol: 0.5000 (g/mL) G Lab File ID: B16431

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 21 Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.38	72	DJ
02		Unknown-02	11.13	72	DJ
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOMO1.2 (6/2007)

8/22/08

Report All but Naphthalene

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K71

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.16

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0879

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	25	U
108-95-2	Phenol	39	
111-44-4	Bis(2-chloroethyl)ether	25	U
95-57-8	2-Chlorophenol	25	U
95-48-7	2-Methylphenol	25	U
108-60-1	2,2'-Oxybis(1-chloropropane)	25	U
98-86-2	Acetophenone	25	U
106-44-5	4-Methylphenol	25	U
621-64-7	N-Nitroso-di-n-propylamine	25	U
67-72-1	Hexachloroethane	25	U
98-95-3	Nitrobenzene	25	U
78-59-1	Isophorone	25	U
88-75-5	2-Nitrophenol	25	U
105-67-9	2,4-Dimethylphenol	25	U
111-91-1	Bis(2-chloroethoxy)methane	25	U
120-83-2	2,4-Dichlorophenol	25	U
91-20-3	Naphthalene	1300	EB → Report from J8K71DL
106-47-8	4-Chloroaniline	25	U
87-68-3	Hexachlorobutadiene	25	U
105-60-2	Caprolactam	25	U
59-50-7	4-Chloro-3-methylphenol	25	U
91-57-6	2-Methylnaphthalene	160	
77-47-4	Hexachlorocyclopentadiene	63	UJ
88-06-2	2,4,6-Trichlorophenol	25	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	14	J Q
91-58-7	2-Chloronaphthalene	25	U
88-74-4	2-Nitroaniline	51	U
131-11-3	Dimethylphthalate	25	U
606-20-2	2,6-Dinitrotoluene	25	U
208-96-8	Acenaphthylene	25	U
99-09-2	3-Nitroaniline	51	U
83-32-9	Acenaphthene	25	U
51-28-5	2,4-Dinitrophenol	130	UJ
100-02-7	4-Nitrophenol	51	U
132-64-9	Dibenzofuran	25	U
121-14-2	2,4-Dinitrotoluene	25	U

8/22/08

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K71

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.16

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0879

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	25	U
86-73-7	Fluorene	25	U
7005-72-3	4-Chlorophenyl-phenylether	25	U
100-01-6	4-Nitroaniline	51	U
534-52-1	4,6-Dinitro-2-methylphenol	51	U
86-30-6	N-Nitrosodiphenylamine 1	25	U
95-94-3	1,2,4,5-Tetrachlorobenzene	25	U
101-55-3	4-Bromophenyl-phenylether	25	U
118-74-1	Hexachlorobenzene	25	U
1912-24-9	Atrazine	25	U
87-86-5	Pentachlorophenol	25	UJ
85-01-8	Phenanthrene	25	U
120-12-7	Anthracene	25	U
86-74-8	Carbazole	25	U
84-74-2	Di-n-butylphthalate	25	U
206-44-0	Fluoranthene	25	U
129-00-0	Pyrene	25	U
85-68-7	Butylbenzylphthalate	25	U
91-94-1	3,3'-Dichlorobenzidine	25	U
56-55-3	Benzo(a)anthracene	25	U
218-01-9	Chrysene	25	U
117-81-7	Bis(2-ethylhexyl)phthalate	110	
117-84-0	Di-n-octylphthalate	25	U
205-99-2	Benzo(b)fluoranthene	25	U
207-08-9	Benzo(k)fluoranthene	25	U
50-32-8	Benzo(a)pyrene	25	U
193-39-5	Indeno(1,2,3-cd)pyrene	25	U
53-70-3	Dibenzo(a,h)anthracene	25	U
191-24-2	Benzo(g,h,i)perylene	25	U
58-90-2	2,3,4,6-Tetrachlorophenol	25	U
92-87-5	Benzidine	25	U
95-50-1	1,2-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
541-73-1	1,3-Dichlorobenzene	25	U
62-75-9	N-Nitrosodimethylamine	25	U
95-63-6	1,2,4-Trimethylbenzene	25	U
108-67-8	1,3,5-Trimethylbenzene	26	

1 Cannot be separated from Diphenylamine

8/22/08

BREMERTON-013119

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K71

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.16

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0879

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.27	62	JN
02		Unknown-02	2.31	77	J
03		Unknown-03	2.58	56	J
04		Unknown-04	3.09	200	J
05		Unknown-05	4.20	57	J
06		Unknown-06	4.41	84	J
07		Unknown-07	4.91	150	J
08	000673-32-5	Benzene, 1-propynyl-	6.30	110	NJ
09		Unknown-08	10.58	120	JN
10		Unknown-09	12.91	70	JN
11	000491-30-5	1(2H)-Isoquinolinone	13.94	65	NJ
12		Unknown-10	14.69	53	JN
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	54	JN

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

21388

Report Only Naphthalene

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K71DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.16DL

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0904

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/14/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 10.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	250	U
108-95-2	Phenol	250	U
111-44-4	Bis(2-chloroethyl)ether	250	U
95-57-8	2-Chlorophenol	250	U
95-48-7	2-Methylphenol	250	U
108-60-1	2,2'-Oxybis(1-chloropropane)	250	U
98-86-2	Acetophenone	250	U
106-44-5	4-Methylphenol	250	U
621-64-7	N-Nitroso-di-n-propylamine	250	U
67-72-1	Hexachloroethane	250	U
98-95-3	Nitrobenzene	250	U
78-59-1	Isophorone	250	U
88-75-5	2-Nitrophenol	250	U
105-67-9	2,4-Dimethylphenol	250	U
111-91-1	Bis(2-chloroethoxy)methane	250	U
120-83-2	2,4-Dichlorophenol	250	U
91-20-3	Naphthalene	1200	~~DB~~ → Report
106-47-8	4-Chloroaniline	250	U
87-68-3	Hexachlorobutadiene	250	U
105-60-2	Caprolactam	250	U
59-50-7	4-Chloro-3-methylphenol	250	U
91-57-6	2-Methylnaphthalene	180	DJ
77-47-4	Hexachlorocyclopentadiene	630	U
88-06-2	2,4,6-Trichlorophenol	250	U
95-95-4	2,4,5-Trichlorophenol	250	U
92-52-4	1,1'-Biphenyl	250	U
91-58-7	2-Chloronaphthalene	250	U
88-74-4	2-Nitroaniline	510	U
131-11-3	Dimethylphthalate	250	U
606-20-2	2,6-Dinitrotoluene	250	U
208-96-8	Acenaphthylene	250	U
99-09-2	3-Nitroaniline	510	U
83-32-9	Acenaphthene	250	U
51-28-5	2,4-Dinitrophenol	1300	U
100-02-7	4-Nitrophenol	510	U
132-64-9	Dibenzofuran	250	U
121-14-2	2,4-Dinitrotoluene	250	U

8/22/08

BREMERTON-013121

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K71DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.16DL

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0904

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/14/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 10.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	250	U
86-73-7	Fluorene	250	U
7005-72-3	4-Chlorophenyl-phenylether	250	U
100-01-6	4-Nitroaniline	510	U
534-52-1	4,6-Dinitro-2-methylphenol	510	U
86-30-6	N-Nitrosodiphenylamine [1]	250	U
95-94-3	1,2,4,5-Tetrachlorobenzene	250	U
101-55-3	4-Bromophenyl-phenylether	250	U
118-74-1	Hexachlorobenzene	250	U
1912-24-9	Atrazine	250	U
87-86-5	Pentachlorophenol	250	U
85-01-8	Phenanthrene	250	U
120-12-7	Anthracene	250	U
86-74-8	Carbazole	250	U
84-74-2	Di-n-butylphthalate	250	U
206-44-0	Fluoranthene	250	U
129-00-0	Pyrene	250	U
85-68-7	Butylbenzylphthalate	250	U
91-94-1	3,3'-Dichlorobenzidine	250	U
56-55-3	Benzo(a)anthracene	250	U
218-01-9	Chrysene	250	U
117-81-7	Bis(2-ethylhexyl)phthalate	250	U
117-84-0	Di-n-octylphthalate	250	U
205-99-2	Benzo(b)fluoranthene	250	U
207-08-9	Benzo(k)fluoranthene	250	U
50-32-8	Benzo(a)pyrene	250	U
193-39-5	Indeno(1,2,3-cd)pyrene	250	U
53-70-3	Dibenzo(a,h)anthracene	250	U
191-24-2	Benzo(g,h,i)perylene	250	U
58-90-2	2,3,4,6-Tetrachlorophenol	250	U
92-87-5	Benzidine	250	U
95-50-1	1,2-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
541-73-1	1,3-Dichlorobenzene	250	U
62-75-9	N-Nitrosodimethylamine	250	U
95-63-6	1,2,4-Trimethylbenzene	250	U
108-67-8	1,3,5-Trimethylbenzene	250	U

[1] Cannot be separated from Diphenylamine

8/22/08

BREMERTON-013122

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K71DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.16DL

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0904

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/14/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 10.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.27	390	DJ
02	003061-75-4	Behenic amide	18.07	290	DNJ
03		Unknown-02	18.50	390	DJ
04		Unknown-03	18.63	380	DJ
05		Unknown-04	19.34	390	DJ
06		Unknown-05	21.16	400	DJ
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

8/22/08

BREMERTON-013123

Report All PAH's except Naphthalene & 2-Methylnaphthalene

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K71

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.16

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0968

Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1200	E
91-57-6	2-Methylnaphthalene	170	E
208-96-8	Acenaphthylene	1.3	U
83-32-9	Acenaphthene	1.3	U
86-73-7	Fluorene	4.0	
87-86-5	Pentachlorophenol	2.5	U
85-01-8	Phenanthrene	12	
120-12-7	Anthracene	2.1	
206-44-0	Fluoranthene	7.1	
129-00-0	Pyrene	9.7	
56-55-3	Benzo(a)anthracene	3.0	
218-01-9	Chrysene	4.8	
205-99-2	Benzo(b)fluoranthene	2.5	
207-08-9	Benzo(k)fluoranthene	2.8	
50-32-8	Benzo(a)pyrene	3.5	
193-39-5	Indeno(1,2,3-cd)pyrene	1.6	
53-70-3	Dibenzo(a,h)anthracene	1.3	U
191-24-2	Benzo(g,h,i)perylene	2.3	

1 Cannot be separated from Diphenylamine

8/22/08

02573

BREMERTON-013124

DO NOT REPORT

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K71DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.16DL

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0971

Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2008

GPC Cleanup: (Y/N) Y pH: 5.9 Dilution Factor: 5.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1300	DE
91-57-6	2-Methylnaphthalene	190	DE
208-96-8	Acenaphthylene	8.9	~~U~~ J
83-32-9	Acenaphthene	6.3	U
86-73-7	Fluorene	8.3	D
87-86-5	Pentachlorophenol	13	U
85-01-8	Phenanthrene	23	D
120-12-7	Anthracene	6.3	U
206-44-0	Fluoranthene	11	D
129-00-0	Pyrene	15	D
56-55-3	Benzo(a)anthracene	6.3	U
218-01-9	Chrysene	7.5	D
205-99-2	Benzo(b)fluoranthene	6.3	U
207-08-9	Benzo(k)fluoranthene	6.3	U
50-32-8	Benzo(a)pyrene	6.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	6.3	U
53-70-3	Dibenzo(a,h)anthracene	6.3	U
191-24-2	Benzo(g,h,i)perylene	6.3	U

1 Cannot be separated from Diphenylamine

8/22/08

SOM01.2 (6/2007)

02534

Report All but Benzene

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K72

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.17

Sample wt/vol: 4.000 (g/mL) G Lab File ID: B16383

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 21 Date Analyzed: 05/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.6	U
74-87-3	Chloromethane	1.6	U
75-01-4	Vinyl chloride	1.6	U
74-83-9	Bromomethane	1.6	U
75-00-3	Chloroethane	1.6	U
75-69-4	Trichlorofluoromethane	1.9	J
75-35-4	1,1-Dichloroethene	1.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.6	U
67-64-1	Acetone	64	
75-15-0	Carbon disulfide	5.9	
79-20-9	Methyl acetate	1.6	U
75-09-2	Methylene chloride	3.6	
156-60-5	trans-1,2-Dichloroethene	1.6	U
1634-04-4	Methyl tert-butyl ether	1.6	U
75-34-3	1,1-Dichloroethane	1.6	U
156-59-2	cis-1,2-Dichloroethene	1.6	U
78-93-3	2-Butanone	15	
74-97-5	Bromochloromethane	1.6	U
67-66-3	Chloroform	1.6	U
71-55-6	1,1,1-Trichloroethane	1.6	U
110-82-7	Cyclohexane	1.6	U
56-23-5	Carbon tetrachloride	1.6	U
71-43-2	Benzene	230	E → Report from J8K72PL
107-06-2	1,2-Dichloroethane	1.6	U
123-91-1	1,4-Dioxane	160	U
79-01-6	Trichloroethene	1.6	J
108-87-2	Methylcyclohexane	1.6	U
78-87-5	1,2-Dichloropropane	1.6	U
75-27-4	Bromodichloromethane	1.6	U
10061-01-5	cis-1,3-Dichloropropene	1.6	U
108-10-1	4-Methyl-2-pentanone	7.9	U
108-88-3	Toluene	2.1	
10061-02-6	trans-1,3-Dichloropropene	1.6	U
79-00-5	1,1,2-Trichloroethane	1.6	U

8/22/08

BREMERTON-013126

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K72

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.17

Sample wt/vol: 4.000 (g/mL) G Lab File ID: B16383

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 21 Date Analyzed: 05/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.6	U
591-78-6	2-Hexanone	7.9	U
124-48-1	Dibromochloromethane	1.6	U
106-93-4	1,2-Dibromoethane	1.6	U
108-90-7	Chlorobenzene	1.6	U
100-41-4	Ethylbenzene	1.6	U
95-47-6	o-Xylene	1.6	U
179601-23-1	m,p-Xylene	1.6	U
100-42-5	Styrene	1.6	U
75-25-2	Bromoform	1.6	U
98-82-8	Isopropylbenzene	1.6	U
79-34-5	1,1,2,2-Tetrachloroethane	1.6	U
541-73-1	1,3-Dichlorobenzene	1.6	U
106-46-7	1,4-Dichlorobenzene	1.6	U
95-50-1	1,2-Dichlorobenzene	1.6	U
96-12-8	1,2-Dibromo-3-chloropropane	1.6	U
120-82-1	1,2,4-Trichlorobenzene	7.9	U
87-61-6	1,2,3-Trichlorobenzene	~~7.9~~ ~~0.17~~	~~JB~~ U
87-68-3	Hexachlorobutadiene	1.6	U
67-72-1	Hexachloroethane	3.2	U
91-20-3	Naphthalene	1.6 ~~1.2~~	~~JB~~ U
630-20-6	1,1,1,2-Tetrachloroethane	1.6	U
96-18-4	1,2,3-Trichloropropane	1.6	U

8/22/08

BREMERTON-013127

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K72

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.17

Sample wt/vol: 4.000 (g/mL) G Lab File ID: B16383

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 21 Date Analyzed: 05/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000110-02-1	Thiophene	7.67	11	NJ
02		Unknown-01	11.14	7.1	JN
03		Unknown-02	16.17	2.7	JN
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A	9.3	JN

1 EPA-designated Registry Number.

8/22/08

BREMERTON-013128

Report Only Benzene

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K72DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.17DL

Sample wt/vol: 0.5000 (g/mL) G Lab File ID: B16385

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 21 Date Analyzed: 05/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U
67-64-1	Acetone	69	D
75-15-0	Carbon disulfide	13	U
79-20-9	Methyl acetate	13	U
75-09-2	Methylene chloride	5.9	DJ
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl tert-butyl ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-Butanone	63	U
74-97-5	Bromochloromethane	13	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	13	U
56-23-5	Carbon tetrachloride	13	U
71-43-2	Benzene	180	D → Report
107-06-2	1,2-Dichloroethane	13	U
123-91-1	1,4-Dioxane	1300	U
79-01-6	Trichloroethene	13	U
108-87-2	Methylcyclohexane	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	63	U
108-88-3	Toluene	4.4	DJ
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U

8/22/08

SOM01.2 (6/2007)

13485

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K72DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.17DL

Sample wt/vol: 0.5000 (g/mL) G Lab File ID: B16385

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 21 Date Analyzed: 05/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	63	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
95-47-6	o-Xylene	13	U
179601-23-1	m,p-Xylene	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	63	U
87-61-6	1,2,3-Trichlorobenzene	63	U
87-68-3	Hexachlorobutadiene	13	U
67-72-1	Hexachloroethane	25	U
91-20-3	Naphthalene	5.9	DJB
630-20-6	1,1,1,2-Tetrachloroethane	13	U
96-18-4	1,2,3-Trichloropropane	13	U

8/22/08

BREMERTON-013130

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K72DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.17DL

Sample wt/vol: 0.5000 (g/mL) G Lab File ID: B16385

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 21 Date Analyzed: 05/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000075-09-2	Methylene Chloride	4.12	43	DNJ
02		Unknown-01	4.65	62	DJ
03		Unknown-02	11.14	71	DJ
04					
05					
06					
07					
08					
09					
10					
11					
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26					
27					
28					
29					
30					
	E966796'	Total Alkanes	N/A		

' EPA-designated Registry Number.

SOM01.2 6/2007

8/22/08

Repeat All except PAH's

1D - FORM I SV-1 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K72

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.17

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0880

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	25	U
108-95-2	Phenol	81	
111-44-4	Bis(2-chloroethyl)ether	25	U
95-57-8	2-Chlorophenol	25	U
95-48-7	2-Methylphenol	25	U
108-60-1	2,2'-Oxybis(1-chloropropane)	25	U
98-86-2	Acetophenone	25	U
106-44-5	4-Methylphenol	25	U
621-64-7	N-Nitroso-di-n-propylamine	25	U
67-72-1	Hexachloroethane	25	U
98-95-3	Nitrobenzene	25	U
78-59-1	Isophorone	25	U
88-75-5	2-Nitrophenol	25	U
105-67-9	2,4-Dimethylphenol	25	U
111-91-1	Bis(2-chloroethoxy)methane	25	U
120-83-2	2,4-Dichlorophenol	25	U
91-20-3	Naphthalene	25	U
106-47-8	4-Chloroaniline	25	U
87-68-3	Hexachlorobutadiene	25	U
105-60-2	Caprolactam	25	U
59-50-7	4-Chloro-3-methylphenol	25	U
91-57-6	2-Methylnaphthalene	25	U
77-47-4	Hexachlorocyclopentadiene	63	UJ
88-06-2	2,4,6-Trichlorophenol	25	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	25	U
91-58-7	2-Chloronaphthalene	25	U
88-74-4	2-Nitroaniline	51	U
131-11-3	Dimethylphthalate	25	U
606-20-2	2,6-Dinitrotoluene	25	U
208-96-8	Acenaphthylene	25	U
99-09-2	3-Nitroaniline	51	U
83-32-9	Acenaphthene	25	U
51-28-5	2,4-Dinitrophenol	130	UJ
100-02-7	4-Nitrophenol	51	U
132-64-9	Dibenzofuran	25	U
121-14-2	2,4-Dinitrotoluene	25	U

8/22/08

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K72

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.17

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0880

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	25	U
86-73-7	Fluorene	25	U
7005-72-3	4-Chlorophenyl-phenylether	25	U
100-01-6	4-Nitroaniline	51	U
534-52-1	4,6-Dinitro-2-methylphenol	51	U
86-30-6	N-Nitrosodiphenylamine 1	25	U
95-94-3	1,2,4,5-Tetrachlorobenzene	25	U
101-55-3	4-Bromophenyl-phenylether	25	U
118-74-1	Hexachlorobenzene	25	U
1912-24-9	Atrazine	25	U
87-86-5	Pentachlorophenol	25	UJ
85-01-8	Phenanthrene	25	U
120-12-7	Anthracene	25	U
86-74-8	Carbazole	25	U
84-74-2	Di-n-butylphthalate	25	U
206-44-0	Fluoranthene	25	U
129-00-0	Pyrene	25	U
85-68-7	Butylbenzylphthalate	25	U
91-94-1	3,3'-Dichlorobenzidine	25	U
56-55-3	Benzo(a)anthracene	25	U
218-01-9	Chrysene	25	U
117-81-7	Bis(2-ethylhexyl)phthalate	140	
117-84-0	Di-n-octylphthalate	25	U
205-99-2	Benzo(b)fluoranthene	25	U
207-08-9	Benzo(k)fluoranthene	25	U
50-32-8	Benzo(a)pyrene	25	U
193-39-5	Indeno(1,2,3-cd)pyrene	25	U
53-70-3	Dibenzo(a,h)anthracene	25	U
191-24-2	Benzo(g,h,i)perylene	25	U
58-90-2	2,3,4,6-Tetrachlorophenol	25	U
92-87-5	Benzidine	25	U
95-50-1	1,2-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
541-73-1	1,3-Dichlorobenzene	25	U
62-75-9	N-Nitrosodimethylamine	25	U
95-63-6	1,2,4-Trimethylbenzene	25	U
108-67-8	1,3,5-Trimethylbenzene	25	U

1 Cannot be separated from Diphenylamine

8/22/08

BREMERTON-013133

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K72

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.17

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0880

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.27	69	JN
02		Unknown-02	2.31	92	J
03		Unknown-03	2.47	50	J
04		Unknown-04	2.58	62	J
05		Unknown-05	3.09	220	J
06		Unknown-06	4.20	65	J
07		Unknown-07	4.41	92	J
08		Unknown-08	4.91	150	J
09		Unknown-09	8.12	66	J
10		Unknown-10	8.60	110	J
11		Unknown-11	10.12	130	J
12	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.27	390	NJ
13		Unknown-12	10.58	120	JN
14		Unknown-13	18.63	57	J
15		Unknown-14	19.34	59	J
16		Unknown-15	19.75	51	J
17	~~000556-71-8~~	~~Cyclononasiloxane, octadecame~~	~~20.22~~	~~52~~	~~NJ~~
18		Unknown-16	21.32	74	JN
19		Unknown-17	22.73	60	J
20		Unknown-18	24.53	50	J
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

6/22/08

REPORT ALL PAH's

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K72

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.17

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0977

Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2008

GPC Cleanup: (Y/N) Y pH: 5.8 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	7.9	
91-57-6	2-Methylnaphthalene	2.2	
208-96-8	Acenaphthylene	1.3	U
83-32-9	Acenaphthene	1.3	U
86-73-7	Fluorene	1.3	U
87-86-5	Pentachlorophenol	2.5	U
85-01-8	Phenanthrene	2.4	
120-12-7	Anthracene	1.3	U
206-44-0	Fluoranthene	3.0	
129-00-0	Pyrene	4.3	
56-55-3	Benzo(a)anthracene	1.3	U
218-01-9	Chrysene	2.3	
205-99-2	Benzo(b)fluoranthene	1.3	U
207-08-9	Benzo(k)fluoranthene	1.3	U
50-32-8	Benzo(a)pyrene	15	Z I
193-39-5	Indeno(1,2,3-cd)pyrene	1.3	U
53-70-3	Dibenzo(a,h)anthracene	1.3	U
191-24-2	Benzo(g,h,i)perylene	1.3	U

[1] Cannot be separated from Diphenylamine

8/22/08

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K73

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.18

Sample wt/vol: 3.500 (g/mL) G Lab File ID: B16387

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.8	U
74-87-3	Chloromethane	1.8	U
75-01-4	Vinyl chloride	1.8	U
74-83-9	Bromomethane	1.8	U
75-00-3	Chloroethane	1.8	U
75-69-4	Trichlorofluoromethane	2.4	J
75-35-4	1,1-Dichloroethene	1.8	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.8	U
67-64-1	Acetone	47	
75-15-0	Carbon disulfide	4.3	
79-20-9	Methyl acetate	1.8	U
75-09-2	Methylene chloride	2.3	U
156-60-5	trans-1,2-Dichloroethene	1.8	U
1634-04-4	Methyl tert-butyl ether	1.8	U
75-34-3	1,1-Dichloroethane	1.8	U
156-59-2	cis-1,2-Dichloroethene	1.8	U
78-93-3	2-Butanone	9.2	U
74-97-5	Bromochloromethane	1.8	U
67-66-3	Chloroform	1.8 ~~2.4~~	~~J~~ U
71-55-6	1,1,1-Trichloroethane	1.8	U
110-82-7	Cyclohexane	1.8	U
56-23-5	Carbon tetrachloride	1.8	U
71-43-2	Benzene	44	
107-06-2	1,2-Dichloroethane	1.8	U
123-91-1	1,4-Dioxane	180	U
79-01-6	Trichloroethene	0.44	J Q
108-87-2	Methylcyclohexane	0.37	J Q
78-87-5	1,2-Dichloropropane	1.3	U
75-27-4	Bromodichloromethane	1.8	U
10061-01-5	cis-1,3-Dichloropropene	0.63	J Q
108-10-1	4-Methyl-2-pentanone	9.2	U
108-88-3	Toluene	2.1	
10061-02-6	trans-1,3-Dichloropropene	0.63	J Q
79-00-5	1,1,2-Trichloroethane	1.8	U

8/22/08

SOM01.2 (6/2007)

58430

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K73

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.18

Sample wt/vol: 3.500 (g/mL) G Lab File ID: B16387

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	0.45	J Q
591-78-6	2-Hexanone	9.2	U
124-48-1	Dibromochloromethane	1.8	U
106-93-4	1,2-Dibromoethane	1.8	U
108-90-7	Chlorobenzene	1.8	U
100-41-4	Ethylbenzene	0.73	J Q
95-47-6	o-Xylene	0.49	J Q
179601-23-1	m,p-Xylene	0.52	J Q
100-42-5	Styrene	1.8	U
75-25-2	Bromoform	1.8	U
98-82-8	Isopropylbenzene	1.8	U
79-34-5	1,1,2,2-Tetrachloroethane	1.8	U
541-73-1	1,3-Dichlorobenzene	1.8	U
106-46-7	1,4-Dichlorobenzene	0.37	J Q
95-50-1	1,2-Dichlorobenzene	1.8	U
96-12-8	1,2-Dibromo-3-chloropropane	1.8	U
120-82-1	1,2,4-Trichlorobenzene	9.2	U
87-61-6	1,2,3-Trichlorobenzene	9.2 ~~0.17~~	~~J~~ U
87-68-3	Hexachlorobutadiene	1.8	U
67-72-1	Hexachloroethane	3.7	U
91-20-3	Naphthalene	2.5	~~J~~ U
630-20-6	1,1,1,2-Tetrachloroethane	1.8	U
96-18-4	1,2,3-Trichloropropane	1.8	U

8/22/08

BREMERTON-013137

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K73

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.18

Sample wt/vol: 3.500 (g/mL) G Lab File ID: B16387

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.47	9.8	JN
02		Unknown-02	4.91	6.1	J
03		Unknown-03	5.36	6.5	J
04		Unknown-04	7.23	5.8	J
05		Unknown-05	9.67	6.6	J
06		Unknown-06	11.13	7.8	J
07	000100-41-4	Ethylbenzene	13.00	5.5	NJ
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	18	JN

[1] EPA-designated Registry Number.

SOM01.2 6/2007

8/22/08

Repeat All except PAH's

1D - FORM I SV-1 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K73

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.18

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0881

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	26	U
108-95-2	Phenol	26	U
111-44-4	Bis(2-chloroethyl)ether	26	U
95-57-8	2-Chlorophenol	26	U
95-48-7	2-Methylphenol	26	U
108-60-1	2,2'-Oxybis(1-chloropropane)	26	U
98-86-2	Acetophenone	26	U
106-44-5	4-Methylphenol	26	U
621-64-7	N-Nitroso-di-n-propylamine	26	U
67-72-1	Hexachloroethane	26	U
98-95-3	Nitrobenzene	26	U
78-59-1	Isophorone	26	U
88-75-5	2-Nitrophenol	26	U
105-67-9	2,4-Dimethylphenol	26	U
111-91-1	Bis(2-chloroethoxy)methane	26	U
120-83-2	2,4-Dichlorophenol	26	U
91-20-3	Naphthalene	26	U
106-47-8	4-Chloroaniline	26	U
87-68-3	Hexachlorobutadiene	26	U
105-60-2	Caprolactam	26	U
59-50-7	4-Chloro-3-methylphenol	26	U
91-57-6	2-Methylnaphthalene	26	U
77-47-4	Hexachlorocyclopentadiene	64	UJ
88-06-2	2,4,6-Trichlorophenol	26	U
95-95-4	2,4,5-Trichlorophenol	26	U
92-52-4	1,1'-Biphenyl	26	U
91-58-7	2-Chloronaphthalene	26	U
88-74-4	2-Nitroaniline	51	U
131-11-3	Dimethylphthalate	26	U
606-20-2	2,6-Dinitrotoluene	26	U
208-96-8	Acenaphthylene	26	U
99-09-2	3-Nitroaniline	51	U
83-32-9	Acenaphthene	26	U
51-28-5	2,4-Dinitrophenol	130	UJ
100-02-7	4-Nitrophenol	51	U
132-64-9	Dibenzofuran	26	U
121-14-2	2,4-Dinitrotoluene	26	U

8/22/08

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K73

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.18

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0881

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	26	U
86-73-7	Fluorene	26	U
7005-72-3	4-Chlorophenyl-phenylether	26	U
100-01-6	4-Nitroaniline	51	U
534-52-1	4,6-Dinitro-2-methylphenol	51	U
86-30-6	N-Nitrosodiphenylamine 1	26	U
95-94-3	1,2,4,5-Tetrachlorobenzene	26	U
101-55-3	4-Bromophenyl-phenylether	26	U
118-74-1	Hexachlorobenzene	26	U
1912-24-9	Atrazine	26	U
87-86-5	Pentachlorophenol	26	UJ
85-01-8	Phenanthrene	26	U
120-12-7	Anthracene	26	U
86-74-8	Carbazole	26	U
84-74-2	Di-n-butylphthalate	26	U
206-44-0	Fluoranthene	26	U
129-00-0	Pyrene	26	U
85-68-7	Butylbenzylphthalate	26	U
91-94-1	3,3'-Dichlorobenzidine	26	U
56-55-3	Benzo(a)anthracene	26	U
218-01-9	Chrysene	26	U
117-81-7	Bis(2-ethylhexyl)phthalate	150	
117-84-0	Di-n-octylphthalate	26	U
205-99-2	Benzo(b)fluoranthene	26	U
207-08-9	Benzo(k)fluoranthene	26	U
50-32-8	Benzo(a)pyrene	26	U
193-39-5	Indeno(1,2,3-cd)pyrene	26	U
53-70-3	Dibenzo(a,h)anthracene	26	U
191-24-2	Benzo(g,h,i)perylene	26	U
58-90-2	2,3,4,6-Tetrachlorophenol	26	U
92-87-5	Benzidine	26	U
95-50-1	1,2-Dichlorobenzene	26	U
106-46-7	1,4-Dichlorobenzene	26	U
541-73-1	1,3-Dichlorobenzene	26	U
62-75-9	N-Nitrosodimethylamine	26	U
95-63-6	1,2,4-Trimethylbenzene	26	U
108-67-8	1,3,5-Trimethylbenzene	26	U

1 Cannot be separated from Diphenylamine

8/22/08

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K73

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.18

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0881

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.28	97	JN
02		Unknown-02	2.58	110	J
03		Unknown-03	3.09	210	J
04		Unknown-04	4.20	59	J
05		Unknown-05	4.41	85	J
06		Unknown-06	4.91	200	J
07		Unknown-07	8.13	69	J
08		Unknown-08	8.60	89	J
09		Unknown-09	10.17	130	J
10	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.28	290	NJ
11		Unknown-10	10.59	130	JN
12	000112-84-5	13-Docosenamide, (Z)-	18.07	64	NJ
13		Unknown-11	19.34	69	JN
14	000556-71-8	Cyclononasiloxane, octadecame	20.22	78	NJ
15		Unknown-12	21.05	63	JN
16		Unknown-13	21.32	78	J
17		Unknown-14	22.73	79	J
18	000556-71-8	Cyclononasiloxane, octadecame	24.53	65	NJ
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

1581

Report All PAHs from this run

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K73

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.18

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0978

Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2008

GPC Cleanup: (Y/N) Y pH: 5.3 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	
91-57-6	2-Methylnaphthalene	3.4	
208-96-8	Acenaphthylene	1.3	U
83-32-9	Acenaphthene	1.3	U
86-73-7	Fluorene	1.3	U
87-86-5	Pentachlorophenol	2.6	U
85-01-8	Phenanthrene	1.3	U
120-12-7	Anthracene	1.3	U
206-44-0	Fluoranthene	1.3	UJ
129-00-0	Pyrene	9.5	
56-55-3	Benzo(a)anthracene	2.6	
218-01-9	Chrysene	4.3	
205-99-2	Benzo(b)fluoranthene	2.3	
207-08-9	Benzo(k)fluoranthene	2.7	
50-32-8	Benzo(a)pyrene	13	ZJ
193-39-5	Indeno(1,2,3-cd)pyrene	1.6	
53-70-3	Dibenzo(a,h)anthracene	1.3	U
191-24-2	Benzo(g,h,i)perylene	2.3	

Cannot be separated from Diphenylamine

8/22/08

Repeat All but Benzene

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K79

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.19

Sample wt/vol: 4.500 (g/mL) G Lab File ID: B16423

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 24 Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.5	U
74-87-3	Chloromethane	1.5	U
75-01-4	Vinyl chloride	1.5	U
74-83-9	Bromomethane	1.5	U
75-00-3	Chloroethane	1.5	U
75-69-4	Trichlorofluoromethane	7.8	~~J~~ AV
75-35-4	1,1-Dichloroethene	1.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.5	U
67-64-1	Acetone	33	
75-15-0	Carbon disulfide	7.5	
79-20-9	Methyl acetate	1.5	U
75-09-2	Methylene chloride	1.5 ~~8.9~~	~~JB~~ U
156-60-5	trans-1,2-Dichloroethene	1.5	U
1634-04-4	Methyl tert-butyl ether	1.5	U
75-34-3	1,1-Dichloroethane	1.5	U
156-59-2	cis-1,2-Dichloroethene	1.5	U
78-93-3	2-Butanone	7.3	U
74-97-5	Bromochloromethane	1.5	U
67-66-3	Chloroform	1.5	U
71-55-6	1,1,1-Trichloroethane	1.5	U
110-82-7	Cyclohexane	1.5	U
56-23-5	Carbon tetrachloride	1.5	U
71-43-2	Benzene	380	E → Repeat from J8K79DL
107-06-2	1,2-Dichloroethane	1.5	U
123-91-1	1,4-Dioxane	150	U
79-01-6	Trichloroethene	1.5	U
108-87-2	Methylcyclohexane	1.5	U
78-87-5	1,2-Dichloropropane	1.5	U
75-27-4	Bromodichloromethane	1.5	U
10061-01-5	cis-1,3-Dichloropropene	1.5	U
108-10-1	4-Methyl-2-pentanone	7.3	U
108-88-3	Toluene	1.2	J Q
10061-02-6	trans-1,3-Dichloropropene	1.5	U
79-00-5	1,1,2-Trichloroethane	1.5	U

8/22/08

SOM01.2 (6/2007)

00557

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K79

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.19

Sample wt/vol: 4.500 (g/mL) G Lab File ID: B16423

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 24 Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.5	U
591-78-6	2-Hexanone	7.3	U
124-48-1	Dibromochloromethane	1.5	U
106-93-4	1,2-Dibromoethane	1.5	U
108-90-7	Chlorobenzene	1.5	U
100-41-4	Ethylbenzene	1.5	U
95-47-6	o-Xylene	1.5	U
179601-23-1	m,p-Xylene	2.3	
100-42-5	Styrene	1.5	U
75-25-2	Bromoform	1.5	U
98-82-8	Isopropylbenzene	1.5	U
79-34-5	1,1,2,2-Tetrachloroethane	1.5	U
541-73-1	1,3-Dichlorobenzene	1.5	U
106-46-7	1,4-Dichlorobenzene	1.5	U
95-50-1	1,2-Dichlorobenzene	1.5	U
96-12-8	1,2-Dibromo-3-chloropropane	1.5	U
120-82-1	1,2,4-Trichlorobenzene	7.3	U
87-61-6	1,2,3-Trichlorobenzene	7.3	U
87-68-3	Hexachlorobutadiene	1.5	U
67-72-1	Hexachloroethane	2.9	U
91-20-3	Naphthalene	1.2	JQ
630-20-6	1,1,1,2-Tetrachloroethane	1.5	U
96-18-4	1,2,3-Trichloropropane	1.5	U

8/22/08

BREMERTON-013144

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K79

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.19

Sample wt/vol: 4.500 (g/mL) G Lab File ID: B16423

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 24 Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000110-02-1	Thiophene	7.64	14	NJ
02		Unknown-01	11.11	8.0	JN
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	24	JN

[1] EPA-designated Registry Number.

SOM01.2 (5/2007)

8/22/08

Report Only Benzene

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K79DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.19DL

Sample wt/vol: 0.5000 (g/mL) G Lab File ID: B16386

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 24 Date Analyzed: 05/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U
67-64-1	Acetone	66	U
75-15-0	Carbon disulfide	13	U
79-20-9	Methyl acetate	13	U
75-09-2	Methylene chloride	7.6	DJ
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl tert-butyl ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-Butanone	66	U
74-97-5	Bromochloromethane	13	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	13	U
56-23-5	Carbon tetrachloride	13	U
71-43-2	Benzene	150	J → Report
107-06-2	1,2-Dichloroethane	13	U
123-91-1	1,4-Dioxane	1300	U
79-01-6	Trichloroethene	13	U
108-87-2	Methylcyclohexane	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	66	U
108-88-3	Toluene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U

8/22/08

SOM01.2 (6/2007)

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K79DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.19DL

Sample wt/vol: 0.5000 (g/mL) G Lab File ID: B16386

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 24 Date Analyzed: 05/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	66	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
95-47-6	o-Xylene	13	U
179601-23-1	m,p-Xylene	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	66	U
87-61-6	1,2,3-Trichlorobenzene	66	U
87-68-3	Hexachlorobutadiene	13	U
67-72-1	Hexachloroethane	26	U
91-20-3	Naphthalene	13	U
630-20-6	1,1,1,2-Tetrachloroethane	13	U
96-18-4	1,2,3-Trichloropropane	13	U

8/22/08

BREMERTON-013147

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K79DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.19DL

Sample wt/vol: 0.5000 (g/mL) G Lab File ID: B16386

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 24 Date Analyzed: 05/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.14	79	DJ
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	59	DJ

[1] EPA-designated Registry Number.

SOM01.2 6/2007

8/22/08

Report All except PAH's

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K79

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.19

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0882

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	26	UJ
108-95-2	Phenol	62	
111-44-4	Bis(2-chloroethyl)ether	26	U
95-57-8	2-Chlorophenol	26	U
95-48-7	2-Methylphenol	26	U
108-60-1	2,2'-Oxybis(1-chloropropane)	26	U
98-86-2	Acetophenone	26	U
106-44-5	4-Methylphenol	26	U
621-64-7	N-Nitroso-di-n-propylamine	26	U
67-72-1	Hexachloroethane	26	U
98-95-3	Nitrobenzene	26	U
78-59-1	Isophorone	26	U
88-75-5	2-Nitrophenol	26	U
105-67-9	2,4-Dimethylphenol	26	U
111-91-1	Bis(2-chloroethoxy)methane	26	U
120-83-2	2,4-Dichlorophenol	26	U
91-20-3	Naphthalene	26 ~~19~~	~~JB~~U
106-47-8	4-Chloroaniline	26	UJ
87-68-3	Hexachlorobutadiene	26	U
105-60-2	Caprolactam	26	U
59-50-7	4-Chloro-3-methylphenol	26	U
91-57-6	2-Methylnaphthalene	26	U
77-47-4	Hexachlorocyclopentadiene	66	U
88-06-2	2,4,6-Trichlorophenol	26	U
95-95-4	2,4,5-Trichlorophenol	26	U
92-52-4	1,1'-Biphenyl	26	U
91-58-7	2-Chloronaphthalene	26	U
88-74-4	2-Nitroaniline	53	U
131-11-3	Dimethylphthalate	26	U
606-20-2	2,6-Dinitrotoluene	26	U
208-96-8	Acenaphthylene	26	U
99-09-2	3-Nitroaniline	53	U
83-32-9	Acenaphthene	26	U
51-28-5	2,4-Dinitrophenol	130	U
100-02-7	4-Nitrophenol	53	U
132-64-9	Dibenzofuran	26	U
121-14-2	2,4-Dinitrotoluene	26	U

8/22/08

SOM01.2 (6/2007) [illegible]

1E - FORM I SV-2 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K79

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.19

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0882

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	26	U J
86-73-7	Fluorene	26	U
7005-72-3	4-Chlorophenyl-phenylether	26	U
100-01-6	4-Nitroaniline	53	U
534-52-1	4,6-Dinitro-2-methylphenol	53	U
86-30-6	N-Nitrosodiphenylamine 1	26	U
95-94-3	1,2,4,5-Tetrachlorobenzene	26	U
101-55-3	4-Bromophenyl-phenylether	26	U
118-74-1	Hexachlorobenzene	26	U
1912-24-9	Atrazine	26	U
87-86-5	Pentachlorophenol	26	U
85-01-8	Phenanthrene	26	U
120-12-7	Anthracene	26	U
86-74-8	Carbazole	26	U
84-74-2	Di-n-butylphthalate	26	U
206-44-0	Fluoranthene	26	U
129-00-0	Pyrene	26	U
85-68-7	Butylbenzylphthalate	26	U
91-94-1	3,3'-Dichlorobenzidine	26	U
56-55-3	Benzo(a)anthracene	26	U
218-01-9	Chrysene	26	U
117-81-7	Bis(2-ethylhexyl)phthalate	100	
117-84-0	Di-n-octylphthalate	26	U
205-99-2	Benzo(b)fluoranthene	26	U
207-08-9	Benzo(k)fluoranthene	26	U
50-32-8	Benzo(a)pyrene	26	U
193-39-5	Indeno(1,2,3-cd)pyrene	26	U
53-70-3	Dibenzo(a,h)anthracene	26	U
191-24-2	Benzo(g,h,i)perylene	26	U
58-90-2	2,3,4,6-Tetrachlorophenol	26	U J
92-87-5	Benzidine	26	U
95-50-1	1,2-Dichlorobenzene	26	U
106-46-7	1,4-Dichlorobenzene	26	U
541-73-1	1,3-Dichlorobenzene	26	U
62-75-9	N-Nitrosodimethylamine	26	U
95-63-6	1,2,4-Trimethylbenzene	26	U
108-67-8	1,3,5-Trimethylbenzene	26	U

1 Cannot be separated from Diphenylamine

8/22/08

BREMERTON-013150

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K79

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.19

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0882

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.27	67	JBN
02		Unknown-02	2.58	68	J
03		Unknown-03	3.09	230	J
04		Unknown-04	4.20	77	J
05		Unknown-05	4.41	120	J
06		Unknown-06	4.91	200	J
07		Unknown-07	8.12	67	J
08		Unknown-08	8.60	83	J
09		Unknown-09	10.13	140	J
10		Unknown-10	10.16	66	J
11		Unknown-11	10.27	270	J
12		Unknown-12	10.58	77	J
13	000556-71-8	Cyclononasiloxane, octadecame	17.94	150	NJ
14	000112-84-5	13-Docosenamide, (Z)-	18.07	74	NJ
15	000111-02-4	2,6,10,14,18,22-Tetracosahexa	18.23	66	NJ
16		Unknown-13	18.60	87	JN
17		Unknown-14	21.04	260	J
18		Unknown-15	24.96	90	J
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SDMO1.2 (6/2007)

8/22/08

3283.1

Report All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K79

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.19

Sample wt/vol: 100.2 (g/mL) G Lab File ID: G0979

Extraction: (Type) SONC

% Moisture: 24 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2008

GPC Cleanup: (Y/N) Y pH: 6.1 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	18	ZJ
91-57-6	2-Methylnaphthalene	5.9	
208-96-8	Acenaphthylene	1.3	U
83-32-9	Acenaphthene	1.3	U
86-73-7	Fluorene	1.3	U
87-86-5	Pentachlorophenol	2.6	U
85-01-8	Phenanthrene	4.1	
120-12-7	Anthracene	1.3	U
206-44-0	Fluoranthene	8.6	
129-00-0	Pyrene	11	
56-55-3	Benzo(a)anthracene	3.2	
218-01-9	Chrysene	4.9	
205-99-2	Benzo(b)fluoranthene	2.7	
207-08-9	Benzo(k)fluoranthene	2.9	
50-32-8	Benzo(a)pyrene	10	
193-39-5	Indeno(1,2,3-cd)pyrene	1.8	
53-70-3	Dibenzo(a,h)anthracene	1.3	U
191-24-2	Benzo(g,h,i)perylene	2.5	

1 Cannot be separated from Diphenylamine

8/22/08

SOM01.2 (6/2007)

82822

Report All but Benzene (R from J8K80DL)

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K80

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.20

Sample wt/vol: 3.400 (g/mL) G Lab File ID: B16389

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1.9	U
74-87-3	Chloromethane	1.9	U
75-01-4	Vinyl chloride	1.9	U
74-83-9	Bromomethane	1.9	U
75-00-3	Chloroethane	1.9	U
75-69-4	Trichlorofluoromethane	4.5	~~J~~ U
75-35-4	1,1-Dichloroethene	1.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.9	U
67-64-1	Acetone	56	
75-15-0	Carbon disulfide	5.6	
79-20-9	Methyl acetate	1.9	U
75-09-2	Methylene chloride	2.4	U
156-60-5	trans-1,2-Dichloroethene	1.9	U
1634-04-4	Methyl tert-butyl ether	1.9	U
75-34-3	1,1-Dichloroethane	1.9	U
156-59-2	cis-1,2-Dichloroethene	1.9	U
78-93-3	2-Butanone	9.4	U
74-97-5	Bromochloromethane	1.9	U
67-66-3	Chloroform	1.9 ~~0.56~~	~~U~~ U
71-55-6	1,1,1-Trichloroethane	1.9	U
110-82-7	Cyclohexane	1.9	U
56-23-5	Carbon tetrachloride	1.9	U
71-43-2	Benzene	170	E → Report from J8K80DL
107-06-2	1,2-Dichloroethane	1.9	U
123-91-1	1,4-Dioxane	190	U
79-01-6	Trichloroethene	0.44	JQ
108-87-2	Methylcyclohexane	0.39	JQ
78-87-5	1,2-Dichloropropane	1.9	U
75-27-4	Bromodichloromethane	1.9	U
10061-01-5	cis-1,3-Dichloropropene	0.64	JQ
108-10-1	4-Methyl-2-pentanone	9.4	U
108-88-3	Toluene	2.9	
10061-02-6	trans-1,3-Dichloropropene	0.64	JQ
79-00-5	1,1,2-Trichloroethane	1.9	U

8/22/08

SOM01.2 (6/2007)

09542

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K80

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.20

Sample wt/vol: 3.400 (g/mL) G Lab File ID: B16389

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	0.44	J Q
591-78-6	2-Hexanone	9.4	U
124-48-1	Dibromochloromethane	1.9	U
106-93-4	1,2-Dibromoethane	1.9	U
108-90-7	Chlorobenzene	1.9	U
100-41-4	Ethylbenzene	1.1	J Q
95-47-6	o-Xylene	0.90	J Q
179601-23-1	m,p-Xylene	0.66	J Q
100-42-5	Styrene	1.9	U
75-25-2	Bromoform	1.9	U
98-82-8	Isopropylbenzene	1.9	U
79-34-5	1,1,2,2-Tetrachloroethane	1.9	U
541-73-1	1,3-Dichlorobenzene	1.9	U
106-46-7	1,4-Dichlorobenzene	1.9	U
95-50-1	1,2-Dichlorobenzene	1.9	U
96-12-8	1,2-Dibromo-3-chloropropane	1.9	U
120-82-1	1,2,4-Trichlorobenzene	9.4	U
87-61-6	1,2,3-Trichlorobenzene	9.4 ~~0.17~~	~~JB~~ U
87-68-3	Hexachlorobutadiene	1.9	U
67-72-1	Hexachloroethane	3.8	U
91-20-3	Naphthalene	1.9 ~~1.6~~	~~JB~~ U
630-20-6	1,1,1,2-Tetrachloroethane	1.9	U
96-18-4	1,2,3-Trichloropropane	1.9	U

8/22/08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K80

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.20

Sample wt/vol: 3.400 (g/mL) G Lab File ID: B16389

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.71	7.2	JN
02		Unknown-02	5.46	5.0	J
03		Unknown-03	6.67	4.7	J
04	000110-02-1	Thiophene	7.66	11	NJ
05		Unknown-04	11.14	10.	JN
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	14	JN

[1] EPA-designated Registry Number.

8/22/08

BREMERTON-013155

Only Report Benzene

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K80DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.20DL

Sample wt/vol: 1.000 (g/mL) G Lab File ID: B16382

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.4	U
74-87-3	Chloromethane	6.4	U
75-01-4	Vinyl chloride	6.4	U
74-83-9	Bromomethane	6.4	U
75-00-3	Chloroethane	6.4	U
75-69-4	Trichlorofluoromethane	6.4	U
75-35-4	1,1-Dichloroethene	6.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.4	U
67-64-1	Acetone	49	D
75-15-0	Carbon disulfide	6.4	U
79-20-9	Methyl acetate	6.4	U
75-09-2	Methylene chloride	4.4	DJ
156-60-5	trans-1,2-Dichloroethene	6.4	U
1634-04-4	Methyl tert-butyl ether	6.4	U
75-34-3	1,1-Dichloroethane	6.4	U
156-59-2	cis-1,2-Dichloroethene	6.4	U
78-93-3	2-Butanone	32	U
74-97-5	Bromochloromethane	6.4	U
67-66-3	Chloroform	6.4	U
71-55-6	1,1,1-Trichloroethane	6.4	U
110-82-7	Cyclohexane	6.4	U
56-23-5	Carbon tetrachloride	6.4	U
71-43-2	Benzene	250	D → Repeat
107-06-2	1,2-Dichloroethane	6.4	U
123-91-1	1,4-Dioxane	640	U
79-01-6	Trichloroethene	1.4	DJ
108-87-2	Methylcyclohexane	6.4	U
78-87-5	1,2-Dichloropropane	6.4	U
75-27-4	Bromodichloromethane	6.4	U
10061-01-5	cis-1,3-Dichloropropene	6.4	U
108-10-1	4-Methyl-2-pentanone	32	U
108-88-3	Toluene	4.2	DJ
10061-02-6	trans-1,3-Dichloropropene	6.4	U
79-00-5	1,1,2-Trichloroethane	6.4	U

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SOM01.2 (6/2007)

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K80DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.20DL

Sample wt/vol: 1.000 (g/mL) G Lab File ID: B16382

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	1.8	DJ
591-78-6	2-Hexanone	32	U
124-48-1	Dibromochloromethane	6.4	U
106-93-4	1,2-Dibromoethane	6.4	U
108-90-7	Chlorobenzene	6.4	U
100-41-4	Ethylbenzene	1.4	DJ
95-47-6	o-Xylene	6.4	U
179601-23-1	m,p-Xylene	6.4	U
100-42-5	Styrene	6.4	U
75-25-2	Bromoform	6.4	U
98-82-8	Isopropylbenzene	6.4	U
79-34-5	1,1,2,2-Tetrachloroethane	6.4	U
541-73-1	1,3-Dichlorobenzene	6.4	U
106-46-7	1,4-Dichlorobenzene	6.4	U
95-50-1	1,2-Dichlorobenzene	6.4	U
96-12-8	1,2-Dibromo-3-chloropropane	6.4	U
120-82-1	1,2,4-Trichlorobenzene	32	U
87-61-6	1,2,3-Trichlorobenzene	32	U
87-68-3	Hexachlorobutadiene	6.4	U
67-72-1	Hexachloroethane	13	U
91-20-3	Naphthalene	3.5	DJB
630-20-6	1,1,1,2-Tetrachloroethane	6.4	U
96-18-4	1,2,3-Trichloropropane	6.4	U

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8/22/08

BREMERTON-013157

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K80DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.20DL

Sample wt/vol: 1.000 (g/mL) G Lab File ID: B16382

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 22 Date Analyzed: 05/25/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.14	37	DJ
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	22	DJ

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08 567
~~568~~

Repeat All except PAH's

1D - FORM I SV-1 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET J8K80

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.20

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0883

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	26	U
108-95-2	Phenol	100	
111-44-4	Bis(2-chloroethyl)ether	26	U
95-57-8	2-Chlorophenol	26	U
95-48-7	2-Methylphenol	26	U
108-60-1	2,2'-Oxybis(1-chloropropane)	26	U
98-86-2	Acetophenone	26	U
106-44-5	4-Methylphenol	26	U
621-64-7	N-Nitroso-di-n-propylamine	26	U
67-72-1	Hexachloroethane	26	U
98-95-3	Nitrobenzene	26	U
78-59-1	Isophorone	26	U
88-75-5	2-Nitrophenol	26	U
105-67-9	2,4-Dimethylphenol	26	U
111-91-1	Bis(2-chloroethoxy)methane	26	U
120-83-2	2,4-Dichlorophenol	26	U
91-20-3	Naphthalene	26	U
106-47-8	4-Chloroaniline	26	U
87-68-3	Hexachlorobutadiene	26	U
105-60-2	Caprolactam	26	U
59-50-7	4-Chloro-3-methylphenol	26	U
91-57-6	2-Methylnaphthalene	26	U
77-47-4	Hexachlorocyclopentadiene	64	UJ
88-06-2	2,4,6-Trichlorophenol	26	U
95-95-4	2,4,5-Trichlorophenol	26	U
92-52-4	1,1'-Biphenyl	26	U
91-58-7	2-Chloronaphthalene	26	U
88-74-4	2-Nitroaniline	51	U
131-11-3	Dimethylphthalate	26	U
606-20-2	2,6-Dinitrotoluene	26	U
208-96-8	Acenaphthylene	26	U
99-09-2	3-Nitroaniline	51	U
83-32-9	Acenaphthene	26	U
51-28-5	2,4-Dinitrophenol	130	UJ
100-02-7	4-Nitrophenol	51	U
132-64-9	Dibenzofuran	26	U
121-14-2	2,4-Dinitrotoluene	26	U

SOM01.2 (6/2007) 02356

5/22/08

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K80

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.20

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0883

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	26	U
86-73-7	Fluorene	26	U
7005-72-3	4-Chlorophenyl-phenylether	26	U
100-01-6	4-Nitroaniline	51	U
534-52-1	4,6-Dinitro-2-methylphenol	51	U
86-30-6	N-Nitrosodiphenylamine 1	26	U
95-94-3	1,2,4,5-Tetrachlorobenzene	26	U
101-55-3	4-Bromophenyl-phenylether	26	U
118-74-1	Hexachlorobenzene	26	U
1912-24-9	Atrazine	26	U
87-86-5	Pentachlorophenol	26	UJ
85-01-8	Phenanthrene	26	U
120-12-7	Anthracene	26	U
86-74-8	Carbazole	26	U
84-74-2	Di-n-butylphthalate	26	U
206-44-0	Fluoranthene	26	U
129-00-0	Pyrene	26	U
85-68-7	Butylbenzylphthalate	26	U
91-94-1	3,3'-Dichlorobenzidine	26	U
56-55-3	Benzo(a)anthracene	26	U
218-01-9	Chrysene	26	U
117-81-7	Bis(2-ethylhexyl)phthalate	120	
117-84-0	Di-n-octylphthalate	26	U
205-99-2	Benzo(b)fluoranthene	26	U
207-08-9	Benzo(k)fluoranthene	26	U
50-32-8	Benzo(a)pyrene	26	U
193-39-5	Indeno(1,2,3-cd)pyrene	26	U
53-70-3	Dibenzo(a,h)anthracene	26	U
191-24-2	Benzo(g,h,i)perylene	26	U
58-90-2	2,3,4,6-Tetrachlorophenol	26	U
92-87-5	Benzidine	26	U
95-50-1	1,2-Dichlorobenzene	26	U
106-46-7	1,4-Dichlorobenzene	26	U
541-73-1	1,3-Dichlorobenzene	26	U
62-75-9	N-Nitrosodimethylamine	26	U
95-63-6	1,2,4-Trimethylbenzene	26	U
108-67-8	1,3,5-Trimethylbenzene	26	U

1 Cannot be separated from Diphenylamine

8/22/08

SOM01.2 (6/2007) 32957

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K80

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.20

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0883

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.27	64	J~~B~~N
02		Unknown-02	2.31	86	J
03		Unknown-03	2.58	63	J
04		Unknown-04	3.09	200	J
05		Unknown-05	4.20	62	J
06		Unknown-06	4.41	100	J
07		Unknown-07	4.91	180	J
08		Unknown-08	8.12	49	J
09		Unknown-09	8.60	70	J
10		Unknown-10	10.09	68	J
11	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.27	250	NJ
12		Unknown-11	10.58	83	JN
13	000301-02-0	9-Octadecenamide, (Z)-	18.07	52	NJ
14		Unknown-12	18.60	70	JN
15		Unknown-13	21.24	73	J
16		Unknown-14	21.31	91	J
17		Unknown-15	22.73	65	J
18		Unknown-16	24.53	86	J
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	55	JN

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

Report All PAH's

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K80

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0912.20

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0980

Extraction: (Type) SONC

% Moisture: 22 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/16/2008

GPC Cleanup: (Y/N) Y pH: 5.7 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	
91-57-6	2-Methylnaphthalene	2.8	
208-96-8	Acenaphthylene	1.3	U
83-32-9	Acenaphthene	1.3	U
86-73-7	Fluorene	1.3	U
87-86-5	Pentachlorophenol	2.6	U
85-01-8	Phenanthrene	2.2	
120-12-7	Anthracene	1.3	U
206-44-0	Fluoranthene	5.9	
129-00-0	Pyrene	7.4	
56-55-3	Benzo(a)anthracene	2.3	
218-01-9	Chrysene	3.8	
205-99-2	Benzo(b)fluoranthene	2.5	
207-08-9	Benzo(k)fluoranthene	2.4	
50-32-8	Benzo(a)pyrene	18	≠ I
193-39-5	Indeno(1,2,3-cd)pyrene	1.6	
53-70-3	Dibenzo(a,h)anthracene	1.3	U
191-24-2	Benzo(g,h,i)perylene	2.3	

[1] Cannot be separated from Diphenylamine

8/22/08

SOM01.2 (6/2007)

02531

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K81

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0913.01

Sample wt/vol: 2.500 (g/mL) G Lab File ID: B16433

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 19 Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2.5	U
74-87-3	Chloromethane	2.5	U
75-01-4	Vinyl chloride	2.5	U
74-83-9	Bromomethane	2.5	U
75-00-3	Chloroethane	2.5	U
75-69-4	Trichlorofluoromethane	2.5	U
75-35-4	1,1-Dichloroethene	2.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.5	U
67-64-1	Acetone	12	U
75-15-0	Carbon disulfide	2.5	U
79-20-9	Methyl acetate	2.5	U
75-09-2	Methylene chloride	6.1	BU
156-60-5	trans-1,2-Dichloroethene	2.5	U
1634-04-4	Methyl tert-butyl ether	2.5	U
75-34-3	1,1-Dichloroethane	2.5	U
156-59-2	cis-1,2-Dichloroethene	2.5	U
78-93-3	2-Butanone	12	U
74-97-5	Bromochloromethane	2.5	U
67-66-3	Chloroform	44	
71-55-6	1,1,1-Trichloroethane	2.5	U
110-82-7	Cyclohexane	2.5	U
56-23-5	Carbon tetrachloride	2.5	U
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	2.5	U
123-91-1	1,4-Dioxane	250	U
79-01-6	Trichloroethene	2.5	U
108-87-2	Methylcyclohexane	2.5	U
78-87-5	1,2-Dichloropropane	2.5	U
75-27-4	Bromodichloromethane	2.5	U
10061-01-5	cis-1,3-Dichloropropene	2.5	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	2.5	U
10061-02-6	trans-1,3-Dichloropropene	2.5	U
79-00-5	1,1,2-Trichloroethane	2.5	U

8/22/08

7588

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K81

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0913.01

Sample wt/vol: 2.500 (g/mL) G Lab File ID: B16433

Level: (TRACE/LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 19 Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	2.5	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	2.5	U
106-93-4	1,2-Dibromoethane	2.5	U
108-90-7	Chlorobenzene	2.5	U
100-41-4	Ethylbenzene	1.8	J (2)
95-47-6	o-Xylene	2.5	U
179601-23-1	m,p-Xylene	2.5	U
100-42-5	Styrene	2.5	U
75-25-2	Bromoform	2.5	U
98-82-8	Isopropylbenzene	2.5	U
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U
541-73-1	1,3-Dichlorobenzene	2.5	U
106-46-7	1,4-Dichlorobenzene	2.5	U
95-50-1	1,2-Dichlorobenzene	2.5	U
96-12-8	1,2-Dibromo-3-chloropropane	2.5	U
120-82-1	1,2,4-Trichlorobenzene	12	U
87-61-6	1,2,3-Trichlorobenzene	12	U
87-68-3	Hexachlorobutadiene	2.5	U
67-72-1	Hexachloroethane	4.9	U
91-20-3	Naphthalene	78	
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U
96-18-4	1,2,3-Trichloropropane	2.5	U

8/22/08

BREMERTON-013164

SBSOW

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K81

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0913.01

Sample wt/vol: 2.500 (g/mL) G Lab File ID: B16433

Level: (TRACE or LOW/MED) LOW Date Received: 05/17/2008

% Moisture: not dec. 19 Date Analyzed: 05/27/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.13	15	J N
02		Unknown-02	17.30	19	J
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	58	J N

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

Report All Except PAHs

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K81

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0913.01

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0884

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.5 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	25	U
108-95-2	Phenol	77	
111-44-4	Bis(2-chloroethyl)ether	25	U
95-57-8	2-Chlorophenol	25	U
95-48-7	2-Methylphenol	25	U
108-60-1	2,2'-Oxybis(1-chloropropane)	25	U
98-86-2	Acetophenone	25	U
106-44-5	4-Methylphenol	25	U
621-64-7	N-Nitroso-di-n-propylamine	25	U
67-72-1	Hexachloroethane	25	U
98-95-3	Nitrobenzene	25	U
78-59-1	Isophorone	25	U
88-75-5	2-Nitrophenol	25	U
105-67-9	2,4-Dimethylphenol	25	U
111-91-1	Bis(2-chloroethoxy)methane	25	U
120-83-2	2,4-Dichlorophenol	25	U
91-20-3	Naphthalene	280	~~U~~
106-47-8	4-Chloroaniline	25	U
87-68-3	Hexachlorobutadiene	25	U
105-60-2	Caprolactam	25	U
59-50-7	4-Chloro-3-methylphenol	25	U
91-57-6	2-Methylnaphthalene	79	
77-47-4	Hexachlorocyclopentadiene	62	UJ
88-06-2	2,4,6-Trichlorophenol	25	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	25	U
91-58-7	2-Chloronaphthalene	25	U
88-74-4	2-Nitroaniline	49	U
131-11-3	Dimethylphthalate	25	U
606-20-2	2,6-Dinitrotoluene	25	U
208-96-8	Acenaphthylene	25	U
99-09-2	3-Nitroaniline	49	U
83-32-9	Acenaphthene	49	
51-28-5	2,4-Dinitrophenol	120	UJ
100-02-7	4-Nitrophenol	49	U
132-64-9	Dibenzofuran	25	U
121-14-2	2,4-Dinitrotoluene	25	U

SOM01.2 (6/2007) 62198

8/22/08

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K81

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0913.01

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0884

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.5 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	25	U
86-73-7	Fluorene	23	J Q
7005-72-3	4-Chlorophenyl-phenylether	25	U
100-01-6	4-Nitroaniline	49	U
534-52-1	4,6-Dinitro-2-methylphenol	49	U
86-30-6	N-Nitrosodiphenylamine 1	25	U
95-94-3	1,2,4,5-Tetrachlorobenzene	25	U
101-55-3	4-Bromophenyl-phenylether	25	U
118-74-1	Hexachlorobenzene	25	U
1912-24-9	Atrazine	25	U
87-86-5	Pentachlorophenol	25	U J
85-01-8	Phenanthrene	85	
120-12-7	Anthracene	17	J Q
86-74-8	Carbazole	19	J Q
84-74-2	Di-n-butylphthalate	25	U
206-44-0	Fluoranthene	36	
129-00-0	Pyrene	41	
85-68-7	Butylbenzylphthalate	25	U
91-94-1	3,3'-Dichlorobenzidine	25	U
56-55-3	Benzo(a)anthracene	25	U
218-01-9	Chrysene	25	U
117-81-7	Bis(2-ethylhexyl)phthalate	100	
117-84-0	Di-n-octylphthalate	25	U
205-99-2	Benzo(b)fluoranthene	25	U
207-08-9	Benzo(k)fluoranthene	25	U
50-32-8	Benzo(a)pyrene	25	U
193-39-5	Indeno(1,2,3-cd)pyrene	25	U
53-70-3	Dibenzo(a,h)anthracene	25	U
191-24-2	Benzo(g,h,i)perylene	25	U
58-90-2	2,3,4,6-Tetrachlorophenol	25	U
92-87-5	Benzidine	25	U
95-50-1	1,2-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
541-73-1	1,3-Dichlorobenzene	25	U
62-75-9	N-Nitrosodimethylamine	25	U
95-63-6	1,2,4-Trimethylbenzene	25	U
108-67-8	1,3,5-Trimethylbenzene	25	U

1 Cannot be separated from Diphenylamine

8/22/08

1K - FORM I SV-TIC

SEMIVCLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K81

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0913.01

Sample wt/vol: 100.1 (g/mL) G Lab File ID: G0884

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/13/2008

GPC Cleanup: (Y/N) Y pH: 5.5 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.27	44	JN
02		Unknown-02	2.31	75	J
03		Unknown-03	2.58	53	J
04		Unknown-04	3.09	160	J
05		Unknown-05	4.16	83	J
06		Unknown-06	4.41	79	J
07		Unknown-07	4.91	130	J
08		Unknown-08	8.12	93	J
09	1000157-89-9	p-menth-1-en-8-ol	8.60	86	NJ
10	000271-17-0	Cyclopenta[b]thiapyran	8.68	37	NJ
11		Unknown-09	10.09	74	JN
12	002451-01-6	Terpin Hydrate	10.27	300	NJ
13	000091-57-6	Naphthalene, 2-methyl-	10.41	81	NJ
14		Unknown-10	10.58	84	JN
15	000095-13-6	Indene	12.91	63	NJ
16		Unknown-11	15.31	38	J
17	~~000556-71-8~~	~~Cyclononasiloxane, octadecame~~	~~17.34~~	~~78~~	~~NJ~~
18		Unknown-12	21.02	71	J
19	~~000556-71-8~~	~~Cyclononasiloxane, octadecame~~	~~24.33~~	~~36~~	~~NJ~~
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

02192

Report All PAHs

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K81

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0913.01

Sample wt/vol: 100.0 (g/mL) G Lab File ID: G0962

Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 05/17/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/25/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 5.5 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.2	U
91-57-6	2-Methylnaphthalene	1.2	U
208-96-8	Acenaphthylene	1.2	U
83-32-9	Acenaphthene	1.2	U
86-73-7	Fluorene	1.2	U
87-86-5	Pentachlorophenol	2.5	U
85-01-8	Phenanthrene	1.2	U
120-12-7	Anthracene	1.2	U
206-44-0	Fluoranthene	1.2	U
129-00-0	Pyrene	1.2	U
56-55-3	Benzo(a)anthracene	1.2	U
218-01-9	Chrysene	1.2	U
205-99-2	Benzo(b)fluoranthene	1.2	U
207-08-9	Benzo(k)fluoranthene	1.2	U
50-32-8	Benzo(a)pyrene	1.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.2	U
53-70-3	Dibenzo(a,h)anthracene	1.2	U
191-24-2	Benzo(g,h,i)perylene	1.2	U

[1] Cannot be separated from Diphenylamine

8/22/08

02543

08533

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K91

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.01

Sample wt/vol: 5.900 (g/mL) G Lab File ID: B16460

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 12 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	0.96	U
74-87-3	Chloromethane	0.96	U
75-01-4	Vinyl chloride	0.96	U
74-83-9	Bromomethane	0.96	U
75-00-3	Chloroethane	0.96	U
75-69-4	Trichlorofluoromethane	0.96	U
75-35-4	1,1-Dichloroethene	0.96	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.96	U
67-64-1	Acetone	14	
75-15-0	Carbon disulfide	0.96	U
79-20-9	Methyl acetate	0.96	U
75-09-2	Methylene chloride	2.5	BU
156-60-5	trans-1,2-Dichloroethene	0.96	U
1634-04-4	Methyl tert-butyl ether	0.96	U
75-34-3	1,1-Dichloroethane	0.96	U
156-59-2	cis-1,2-Dichloroethene	0.96	U
78-93-3	2-Butanone	4.8	U
74-97-5	Bromochloromethane	0.96	U
67-66-3	Chloroform	0.96	U
71-55-6	1,1,1-Trichloroethane	0.96	U
110-82-7	Cyclohexane	0.96	U
56-23-5	Carbon tetrachloride	0.96	U
71-43-2	Benzene	0.96	U
107-06-2	1,2-Dichloroethane	0.96	U
123-91-1	1,4-Dioxane	96	U
79-01-6	Trichloroethene	0.96	U
108-87-2	Methylcyclohexane	0.96	U
78-87-5	1,2-Dichloropropane	0.96	U
75-27-4	Bromodichloromethane	0.96	U
10061-01-5	cis-1,3-Dichloropropene	0.96	U
108-10-1	4-Methyl-2-pentanone	4.8	U
108-88-3	Toluene	0.96	U
10061-02-6	trans-1,3-Dichloropropene	0.96	U
79-00-5	1,1,2-Trichloroethane	0.96	U

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SOM01.2 (6/2007)

1.00

10585

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K91

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.01

Sample wt/vol: 5.900 (g/mL) G Lab File ID: B16460

Level: (TRACE/LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 12 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

Purge Volume: 10.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	0.96	U
591-78-6	2-Hexanone	4.8	U
124-48-1	Dibromochloromethane	0.96	U
106-93-4	1,2-Dibromoethane	0.96	U
108-90-7	Chlorobenzene	0.96	U
100-41-4	Ethylbenzene	0.96	U
95-47-6	o-Xylene	0.96	U
179601-23-1	m,p-Xylene	0.96	U
100-42-5	Styrene	0.96	U
75-25-2	Bromoform	0.96	U
98-82-8	Isopropylbenzene	0.96	U
79-34-5	1,1,2,2-Tetrachloroethane	0.96	U
541-73-1	1,3-Dichlorobenzene	0.96	U
106-46-7	1,4-Dichlorobenzene	0.96	U
95-50-1	1,2-Dichlorobenzene	0.96	U
96-12-8	1,2-Dibromo-3-chloropropane	0.96	U
120-82-1	1,2,4-Trichlorobenzene	4.8	U
87-61-6	1,2,3-Trichlorobenzene	4.8	U
87-68-3	Hexachlorobutadiene	0.96	U
67-72-1	Hexachloroethane	1.9	U
91-20-3	Naphthalene	0.96	U
630-20-6	1,1,1,2-Tetrachloroethane	0.96	U
96-18-4	1,2,3-Trichloropropane	0.96	U

8/22/08

SOM01.2 (6/2007)

BREMERTON-013171

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
J8K91

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.01

Sample wt/vol: 5.900 (g/mL) G Lab File ID: B16460

Level: (TRACE or LOW/MED) LOW Date Received: 05/21/2008

% Moisture: not dec. 12 Date Analyzed: 05/28/2008

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	11.11	4.3	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

Report All (incl. Pyrene) but PAHs

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K91

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.01

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0843

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	23	U
108-95-2	Phenol	23	U
111-44-4	Bis(2-chloroethyl)ether	23	U
95-57-8	2-Chlorophenol	23	U
95-48-7	2-Methylphenol	23	U
108-60-1	2,2'-Oxybis(1-chloropropane)	23	U
98-86-2	Acetophenone	23	U
106-44-5	4-Methylphenol	23	U
621-64-7	N-Nitroso-di-n-propylamine	23	U
67-72-1	Hexachloroethane	23	U
98-95-3	Nitrobenzene	23	U
78-59-1	Isophorone	23	U
88-75-5	2-Nitrophenol	23	U
105-67-9	2,4-Dimethylphenol	23	U
111-91-1	Bis(2-chloroethoxy)methane	23	U
120-83-2	2,4-Dichlorophenol	23	U
91-20-3	Naphthalene	23	U
106-47-8	4-Chloroaniline	23	U
87-68-3	Hexachlorobutadiene	23	U
105-60-2	Caprolactam	27	
59-50-7	4-Chloro-3-methylphenol	23	U
91-57-6	2-Methylnaphthalene	23	U
77-47-4	Hexachlorocyclopentadiene	57	UJ
88-06-2	2,4,6-Trichlorophenol	23	U
95-95-4	2,4,5-Trichlorophenol	23	U
92-52-4	1,1'-Biphenyl	23	U
91-58-7	2-Chloronaphthalene	23	U
88-74-4	2-Nitroaniline	45	U
131-11-3	Dimethylphthalate	23	U
606-20-2	2,6-Dinitrotoluene	23	U
208-96-8	Acenaphthylene	23	U
99-09-2	3-Nitroaniline	45	U
83-32-9	Acenaphthene	23	U
51-28-5	2,4-Dinitrophenol	110	UJ
100-02-7	4-Nitrophenol	45	U
132-64-9	Dibenzofuran	23	U
121-14-2	2,4-Dinitrotoluene	23	U

8/22/08

SOM01.2 (8/2007)

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J8K91

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.01

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0843

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	23	U
86-73-7	Fluorene	23	U
7005-72-3	4-Chlorophenyl-phenylether	23	U
100-01-6	4-Nitroaniline	45	U
534-52-1	4,6-Dinitro-2-methylphenol	45	U
86-30-6	N-Nitrosodiphenylamine 1	23	U
95-94-3	1,2,4,5-Tetrachlorobenzene	23	U
101-55-3	4-Bromophenyl-phenylether	23	U
118-74-1	Hexachlorobenzene	23	U
1912-24-9	Atrazine	23	U
87-86-5	Pentachlorophenol	23	UJ
85-01-8	Phenanthrene	79	
120-12-7	Anthracene	14	J (Q)
86-74-8	Carbazole	23	U
84-74-2	Di-n-butylphthalate	23	U
206-44-0	Fluoranthene	110	
129-00-0	Pyrene	140	
85-68-7	Butylbenzylphthalate	15	J (Q)
91-94-1	3,3'-Dichlorobenzidine	23	U
56-55-3	Benzo(a)anthracene	35	
218-01-9	Chrysene	36	
117-81-7	Bis(2-ethylhexyl)phthalate	170	
117-84-0	Di-n-octylphthalate	23	U
205-99-2	Benzo(b)fluoranthene	29	
207-08-9	Benzo(k)fluoranthene	27	
50-32-8	Benzo(a)pyrene	34	
193-39-5	Indeno(1,2,3-cd)pyrene	24	
53-70-3	Dibenzo(a,h)anthracene	23	U
191-24-2	Benzo(g,h,i)perylene	31	
58-90-2	2,3,4,6-Tetrachlorophenol	23	U
92-87-5	Benzidine	23	U
95-50-1	1,2-Dichlorobenzene	23	U
106-46-7	1,4-Dichlorobenzene	23	U
541-73-1	1,3-Dichlorobenzene	23	U
62-75-9	N-Nitrosodimethylamine	23	U
95-63-6	1,2,4-Trimethylbenzene	23	U
108-67-8	1,3,5-Trimethylbenzene	23	U

1 Cannot be separated from Diphenylamine

Report

8/22/08

BREMERTON-013174

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J8K91

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.01

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0843

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) Date Analyzed: 06/12/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.27	64	JBN
02		Unknown-02	3.09	190	J
03		Unknown-03	4.41	54	J
04		Unknown-04	4.91	63	J
05		Unknown-05	8.60	51	J
06		Unknown-06	10.08	64	J
07	000080-53-5	Cyclohexanemethanol, 4-hydrox	10.27	180	NJ
08		Unknown-07	10.58	64	JN
09		Unknown-08	18.63	48	J
10		Unknown-09	21.38	61	J
11					
12					
13					
14					
15					
16					
17					
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19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

8/22/08

Report All except Pyrene

1F - FORM I SV-SIM
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
J8K91

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 37435 Mod. Ref No.: 1568.0 SDG No.: J8K63

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-0919.01

Sample wt/vol: 100.3 (g/mL) G Lab File ID: G0955

Extraction: (Type) SONC

% Moisture: 12 Decanted: (Y/N) N Date Received: 05/21/2008

Concentrated Extract Volume: 500 (uL) Date Extracted: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 06/15/2008

GPC Cleanup: (Y/N) Y pH: 5.6 Dilution Factor: 1.0

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.1	U
91-57-6	2-Methylnaphthalene	1.1	U
208-96-8	Acenaphthylene	1.1	U
83-32-9	Acenaphthene	1.1	U
86-73-7	Fluorene	1.1	U
87-86-5	Pentachlorophenol	2.3	U
85-01-8	Phenanthrene	8.1	
120-12-7	Anthracene	1.4	
206-44-0	Fluoranthene	10	
129-00-0	Pyrene	13	E → Report from J8K91
56-55-3	Benzo(a)anthracene	3.9	
218-01-9	Chrysene	6.4	
205-99-2	Benzo(b)fluoranthene	1.9	
207-08-9	Benzo(k)fluoranthene	2.4	
50-32-8	Benzo(a)pyrene	3.1	
193-39-5	Indeno(1,2,3-cd)pyrene	1.3	
53-70-3	Dibenzo(a,h)anthracene	1.1	U
191-24-2	Benzo(g,h,i)perylene	1.8	

Cannot be separated from Diphenylamine

8/22/08

SOM01.2 (6/2007)

82549

G

RACER Cleanup Option Cost Estimates

BREMERTON-013177

APPENDIX G

The cost estimates included in this appendix were created by utilizing cost estimating software called Remedial Action Cost Engineering and Requirements (RACER®). RACER® is a Windows-based cost estimating computer program that was originally developed for the United States Air Force in 1992 and has since grown to meet the needs of various federal agencies and departments, including United States Army Corp of Engineers and United States Environmental Protection Agency.

When creating an estimate in RACER®, site-specific parameters are added to generic engineering solutions to reflect project-specific conditions and requirements. The software includes numerous pre-defined remedies (referred to as "technologies"), allowing flexibility in selecting a presumptive remedy for a given site. After selecting a remedy, RACER® prompts the user to enter quantities of key input parameters, whether actual or estimated. For example, for a soil excavation and disposal estimate, input entries include contamination area and depth, soil type, analytical testing requirements, waste type (hazardous or non-hazardous), and distance to disposal facility. After entering these site-specific parameters, RACER® automatically calculates resulting volumes along with associated excavation, testing, and disposal costs. These costs are generated using pre-defined assemblies for the selected remedy that use cost data from the RACER® cost database, based primarily on the current Unit Price Book (UPB).

The RACER® database also includes a number of specialized assemblies that are not derived from the Unit Price Book. Costs for assemblies in the RACER® database are updated annually. For those technologies not included in the RACER® database (e.g., sediment dredging and capping), user-defined technologies and associated cost assemblies were developed and added to the database. For these technologies, current cost data were obtained from sources including contractors, vendors, previous experience, engineering judgment, and the 2008 RSMeans Heavy Construction Cost Data reference publication.

Site WBS Report
(with Markups)

System:

RACER Version: 10.0.2
Database Location: R:\RACER Cost Estimates\RACER Cost Estimates.mdb

Folder:

Folder Name: Washington

Region:

Region ID: NA
Region Name: Bremerton Gasworks
Region Category: Northwest

Location
State / Country: WASHINGTON
City: WASHINGTON STATE AVERAGE

Location Modifier	Default	User
	1.021	1.021

Options
Database: Modified System
Cost Database Date: 2008
Report Option: Calendar

Description Cost estimates for Bremerton Gasworks

Site WBS Report
(with Markups)

Site:

Site ID: NA
Site Name: Option 1 - Hot Spot Excavation; GW Mon Wells
Site Type: Multi - Soil & GW

Media/Waste Type
Primary: Soil
Secondary: Groundwater

Contaminant
Primary: Fuels
Secondary: None

Phase Names
Pre-Study: ☐
Study: ☐
Design: ☐
Removal/Interim Action: ☐
Remedial Action: ☑
Operations & Maintenance: ☐
Long Term Monitoring: ☐
Site Closeout: ☐

Documentation
Description: Cost estimate for Option 1 - Hot Spot Excavation and Installation of Monitoring Wells.

Assume installation of 4 monitoring wells and one year of groundwater monitoring. Longterm monitoring not included.
Assume average GW depth: 25' bgs.

Assume 2 upland soil hot spots requiring excavation and offsite disposal:
Hot Spot 1 near sample location SP03. Assume 25'x25' to 10' bgs.
Hot Spot 2 near sample location MP03. Assume 25'x25' to 15' bgs.
Resulting total excavation volume = approx. 600 cubic yards (average depth 12.5' bgs).
Assume soil type: sand/gravelly sand mixture.
Assume offsite disposal as hazardous waste.

Support Team: E&E
References: None

Estimator Information
Estimator Name: Vanessa Rayner
Estimator Title: Civil Engineer
Agency/Org./Office: Ecology & Environment, Inc.
Business Address: 720 Third Ave., Suite 1700
Seattle, WA 98104
Telephone Number: 206-624-9537

Site WBS Report
(with Markups)

Email Address: vrayner@ene.com
Estimate Prepared Date: 06/09/2009
Estimator Signature: Vanessa Rayner **Date:** 6/9/09

Reviewer Information

Reviewer Name: Steve Siefert
Reviewer Title: Senior Chemical Engineer
Agency/Org./Office: Ecology & Environment, Inc.
Business Address: 720 Third Ave., Suite 1700
Seattle, WA 98104
Telephone Number: 206-624-9537
Email Address: ssiefert@ene.com
Date Reviewed: 06/09/2009
Reviewer Signature: Steve Siefert **Date:** 6-9-09

Site WBS Report
(with Markups)

Phase:

Phase Type:	Remedial Action
Phase Name:	Monitoring Well Installation
Description:	Assume 4 monitoring wells. 2" diameter PVC Schedule 80 . Assume average GW depth: 25' bgs. Assume well depth of 45'. Assume split spoon sample collection every 5' with analysis (fuels). Costs for well installation and one year of groundwater monitoring. Longterm monitoring not included.
Approach:	None
Start Date:	August, 2009
Labor Rate Group:	Marked Up Labor Rates_E&E
Analysis Rate Group:	System Analysis Rate
Phase Markups:	Markups_E&E

Technology Markups	Markup	% Prime	% Sub.
Groundwater Monitoring Well	Yes	100	0
MONITORING	Yes	100	0

BREMERTON-013182

Site WBS Report
(with Markups)

HTRW RA WBS			Marked Up Costs
331	HTRW REMEDIAL ACTION (CONSTRUCTION)		
331.02	MONITORING, SAMPLING, TESTING, AND ANALYSIS		
331.02.04	Monitoring Wells	Groundwater Monitoring Well	$42,587
331.02.91	Other	MONITORING	$59,995
			$102,582
		Total:	$102,582
		HTRW RA WBS Total:	$102,582

Phase:

Phase Type: Remedial Action
Phase Name: Soil Exc & Disp-RA (HAZ)
Description: Assume 2 upland soil hot spots requiring excavation and offsite disposal:
Hot Spot 1 near sample location SP03. Assume 25'x25' to 10' bgs.
Hot Spot 2 near sample location MP03. Assume 25'x25' to 15' bgs.
Resulting total excavation volume = approx. 600 cubic yards (average depth 12.5' bgs).
Assume soil type: sand/gravelly sand mixture.
Assume offsite disposal as hazardous waste at Arlington.
Approach: Ex Situ
Start Date: August, 2009
Labor Rate Group: Marked Up Labor Rates_E&E
Analysis Rate Group: System Analysis Rate
Phase Markups: Markups_E&E

Technology Markups	Markup	% Prime	% Sub.
Excavation	Yes	100	0
Decontamination Facilities	Yes	100	0
Residual Waste Management	Yes	100	0
Professional Labor Management	Yes	100	0

Site WBS Report
(with Markups)

HTRW RA WBS		Marked Up Costs
331 HTRW REMEDIAL ACTION (CONSTRUCTION)		
331.01 MOBILIZATION AND PREPARATORY WORK		
331.01.04 Setup/Construct Temporary Facilities	Decontamination Facilities	$3,608
		$3,608
331.08 SOLIDS COLLECTION AND CONTAINMENT		
331.08.01 Contaminated Soil Collection	Excavation	$19,268
		$19,268
331.19 DISPOSAL (COMMERCIAL)		
331.19.21 Transportation to Storage/Disposal Facility	Residual Waste Management	$143,911
		$143,911
331.22 GENERAL REQUIREMENTS (Optional Breakout)		
331.22.03 Warehouse, Materials Handling, and Purchasing	Professional Labor Management	$16,679
		$16,679
	Total:	$183,466
	HTRW RA WBS Total:	$183,466
	Total:	**$286,048**

BREMERTON-013184

Site WBS Report
(with Markups)

System:

RACER Version: 10.0.2
Database Location: R:\RACER Cost Estimates\RACER Cost Estimates.mdb

Folder:

Folder Name: Washington

Region:

Region ID: NA
Region Name: Bremerton Gasworks
Region Category: Northwest

Location
State / Country: WASHINGTON
City: WASHINGTON STATE AVERAGE

Location Modifier	Default	User
	1.021	1.021

Options
Database: Modified System
Cost Database Date: 2008
Report Option: Calendar

Description Cost estimates for Bremerton Gasworks

Site WBS Report
(with Markups)

Site:

Site ID: NA
Site Name: Option 2 - Hot Spot Excavation; GW Pump and Treat
Site Type: Multi - Soil & GW

Media/Waste Type
Primary: Soil
Secondary: Groundwater

Contaminant
Primary: Fuels
Secondary: None

Phase Names
Pre-Study: ☐
Study: ☐
Design: ☐
Removal/Interim Action: ☐
Remedial Action: ☑
Operations & Maintenance: ☑
Long Term Monitoring: ☑
Site Closeout: ☐

Documentation
Description: Cost estimate for Option 2 - Hot Spot Soil Excavation; GW Pump and Treat.

Assume 2 upland soil hot spots requiring excavation and offsite disposal:
Hot Spot 1 near sample location SP03. Assume 25'x25' to 10' bgs.
Hot Spot 2 near sample location MP03. Assume 25'x25' to 15' bgs.
Resulting total excavation volume = approx. 600 cubic yards (average depth 12.5' bgs).
Assume soil type: sand/gravelly sand mixture.
Assume offsite disposal as hazardous waste.

Assume GW plume of approx. 150'x350'. Use pump and treat for 5 years with monitoring.
Assume average GW depth: 25' bgs.

Assume installation of 4 monitoring wells.

Support Team: E&E
References: R.S. Means, 2008, Heavy Construction Cost Data 22nd Annual Edition (HCCD)

Estimator Information
Estimator Name: Vanessa Rayner
Estimator Title: Civil Engineer
Agency/Org./Office: Ecology & Environment, Inc.
Business Address: 720 Third Ave., Suite 1700
Seattle, WA 98104

BREMERTON-013186

Site WBS Report
(with Markups)

Telephone Number: 206-624-9537
Email Address: vrayner@ene.com

Estimate Prepared Date: 05/15/2009
Estimator Signature: Vanessa Rayner **Date:** 05/20/09

Reviewer Information

Reviewer Name: Steve Siefert
Reviewer Title: Senior Chemical Engineer
Agency/Org./Office: Ecology & Environment, Inc.
Business Address: 720 Third Ave., Suite 1700
Seattle, WA 98104
Telephone Number: 206-624-9537
Email Address: ssiefert@ene.com

Date Reviewed: 05/15/2009
Reviewer Signature: Steve Siefert **Date:** 5-20-09

BREMERTON-013187

Site WBS Report
(with Markups)

Phase:

Phase Type:	Remedial Action
Phase Name:	Monitoring Well Installation
Description:	Assume 4 monitoring wells. 2" diameter PVC Schedule 80 . Assume average GW depth: 25' bgs. Assume well depth of 45'. Assume split spoon sample collection every 5' with analysis (fuels). Costs only for well installation. Longterm monitoring not included.
Approach:	None
Start Date:	August, 2009
Labor Rate Group:	Marked Up Labor Rates_E&E
Analysis Rate Group:	System Analysis Rate
Phase Markups:	Markups_E&E

Technology Markups	Markup	% Prime	% Sub.
Groundwater Monitoring Well	Yes	100	0

BREMERTON-013188

Site WBS Report
(with Markups)

HTRW RA WBS			Marked Up Costs
331	HTRW REMEDIAL ACTION (CONSTRUCTION)		
331.02	MONITORING, SAMPLING, TESTING, AND ANALYSIS		
331.02.04	Monitoring Wells	Groundwater Monitoring Well	$42,587
			$42,587
		Total:	$42,587
		HTRW RA WBS Total:	$42,587

Phase:

Phase Type: Remedial Action
Phase Name: Pump & Treat Remedial Action
Description: Cost of installation and startup of a pump and treat operation (doesn't include O&M).
Use filtration and carbon absorption (2 vessels in series) with treated water discharge to POTW.
Assume GW plume of approx. 150'x350'.
Assume average GW depth: 25' bgs.
Assume base of contamination at 45' bgs.
Assume sand/gravelly sand mixture.
Approach: Ex Situ
Start Date: August, 2009
Labor Rate Group: Marked Up Labor Rates_E&E
Analysis Rate Group: System Analysis Rate
Phase Markups: Markups_E&E

Technology Markups	Markup	% Prime	% Sub.
Groundwater Extraction Wells	Yes	100	0
Media Filtration	Yes	100	0
Carbon Adsorption (Liquid)	Yes	100	0
Discharge to POTW	Yes	100	0
Overhead Electrical Distribution	Yes	100	0
Professional Labor Management	Yes	100	0
Residual Waste Management	Yes	100	0

BREMERTON-013189

Site WBS Report
(with Markups)

HTRW RA WBS			Marked Up Costs
331	HTRW REMEDIAL ACTION (CONSTRUCTION)		
331.03	SITEWORK		
331.03.06	Electrical Distribution	Overhead Electrical Distribution	$23,579
			$23,579
331.06	GROUNDWATER COLLECTION AND CONTROL		
331.06.01	Extraction and Injection Wells	Groundwater Extraction Wells	$38,841
			$38,841
331.13	PHYSICAL TREATMENT		
331.13.20	Carbon Adsorption - Liquids	Carbon Adsorption (Liquid)	$5,352
331.13.01	Filtration/Ultrafiltration	Media Filtration	$32,098
			$37,451
331.19	DISPOSAL (COMMERCIAL)		
331.19.22	Disposal Fees and Taxes	Discharge to POTW	$21,293
331.19.21	Transportation to Storage/Disposal Facility	Residual Waste Management	$6,308
			$27,602
331.22	GENERAL REQUIREMENTS (Optional Breakout)		
331.22.03	Warehouse, Materials Handling, and Purchasing	Professional Labor Management	$21,332
			$21,332
		Total:	$148,804
		HTRW RA WBS Total:	$148,804

BREMERTON-013190

Site WBS Report
(with Markups)

Phase:

Phase Type: Remedial Action
Phase Name: Soil Exc & Disp-RA (HAZ)
Description: Assume 2 upland soil hot spots requiring excavation and offsite disposal:
Hot Spot 1 near sample location SP03. Assume 25'x25' to 10' bgs.
Hot Spot 2 near sample location MP03. Assume 25'x25' to 15' bgs.
Resulting total excavation volume = approx. 600 cubic yards (average depth 12.5' bgs).
Assume soil type: sand/gravelly sand mixture.
Assume offsite disposal as hazardous waste at Arlington.
Approach: Ex Situ
Start Date: August, 2009
Labor Rate Group: Marked Up Labor Rates_E&E
Analysis Rate Group: System Analysis Rate
Phase Markups: Markups_E&E

Technology Markups	Markup	% Prime	% Sub.
Excavation	Yes	100	0
Decontamination Facilities	Yes	100	0
Residual Waste Management	Yes	100	0
Professional Labor Management	Yes	100	0

BREMERTON-013191

Site WBS Report
(with Markups)

HTRW RA WBS		Marked Up Costs
331 HTRW REMEDIAL ACTION (CONSTRUCTION)		
331.01 MOBILIZATION AND PREPARATORY WORK		
331.01.04 Setup/Construct Temporary Facilities	Decontamination Facilities	$3,608
		$3,608
331.08 SOLIDS COLLECTION AND CONTAINMENT		
331.08.01 Contaminated Soil Collection	Excavation	$19,268
		$19,268
331.19 DISPOSAL (COMMERCIAL)		
331.19.21 Transportation to Storage/Disposal Facility	Residual Waste Management	$143,911
		$143,911
331.22 GENERAL REQUIREMENTS (Optional Breakout)		
331.22.03 Warehouse, Materials Handling, and Purchasing	Professional Labor Management	$16,679
		$16,679
	Total:	$183,466
	HTRW RA WBS Total:	$183,466

BREMERTON-013192

Site WBS Report
(with Markups)

Phase:

Phase Type: Operations & Maintenance
Phase Name: O&M - Pump & Treat System
Description: Assumes O&M for 5 years (60 months).

Start Date: August, 2009
Labor Rate Group: Marked Up Labor Rates_E&E
Analysis Rate Group: System Analysis Rate
Phase Markups: Markups_E&E

Technology Markups	Markup	% Prime	% Sub.
Operations and Maintenance	Yes	100	0

BREMERTON-013193

Site WBS Report
(with Markups)

HTRW OM WBS			Marked Up Costs
342	HTRW OPERATION AND MAINTENANCE (POST CONSTRUCTION)		
342.22	GENERAL REQUIREMENTS (Optional Breakout)		
342.22.91	Other	Miscellaneous Support Costs	$213,917
			$213,917
		Total:	$213,917
		HTRW OM WBS Total:	$213,917

Phase:

Phase Type: Long Term Monitoring
Phase Name: Monitoring - Pump & Treat System
Description: Pump & Treat Monitoring plus residual waste management.
Assumes monitoring for 5 years.
Sampled quarterly.
Costs are for monitoring of P&T system extraction wells (2 wells) plus GW monitoring wells (4 wells) - total of 6 wells.

Start Date: August, 2009
Labor Rate Group: Marked Up Labor Rates_E&E
Analysis Rate Group: System Analysis Rate
Phase Markups: Markups_E&E

Technology Markups	Markup	% Prime	% Sub.
MONITORING- P&T	Yes	100	0
Residual Waste Management	Yes	100	0

BREMERTON-013194

Site WBS Report
(with Markups)

HTRW RA WBS			Marked Up Costs
331	HTRW REMEDIAL ACTION (CONSTRUCTION)		
331.02	MONITORING, SAMPLING, TESTING, AND ANALYSIS		
331.02.91	Other	MONITORING- P&T	$227,614
			$227,614
331.19	DISPOSAL (COMMERCIAL)		
331.19.21	Transportation to Storage/Disposal Facility	Residual Waste Management	$4,947
			$4,947
		Total:	$232,560
		HTRW RA WBS Total:	$232,560
		Total:	**$821,334**

BREMERTON-013195

Site WBS Report
(with Markups)

System:

RACER Version: 10.0.2
Database Location: R:\RACER Cost Estimates\RACER Cost Estimates.mdb

Folder:

Folder Name: Washington

Region:

Region ID: NA
Region Name: Bremerton Gasworks
Region Category: Northwest

Location
State / Country: WASHINGTON
City: WASHINGTON STATE AVERAGE

Location Modifier	Default	User
	1.021	1.021

Options
Database: Modified System
Cost Database Date: 2008
Report Option: Calendar

Description Cost estimates for Bremerton Gasworks

Site WBS Report
(with Markups)

Site:

Site ID: NA
Site Name: Option 3 - Ex; BW; Cap; GW P&T; Sed Dredge
Site Type: Multi - Soil, GW, & Sediment

Media/Waste Type
Primary: Soil
Secondary: Groundwater

Contaminant
Primary: Fuels
Secondary: None

Phase Names
Pre-Study: ☐
Study: ☐
Design: ☐
Removal/Interim Action: ☐
Remedial Action: ☑
Operations & Maintenance: ☑
Long Term Monitoring: ☑
Site Closeout: ☐

Documentation
Description: Cost estimate for Option 3 - Hot Spot Soil Excavation; Barrier Wall; Upland Cap; GW Pump and Treat; and Sediment Dredging.

Assume 2 upland soil hot spots requiring excavation and offsite disposal:
Hot Spot 1 near sample location SP03. Assume 25'x25' to 10' bgs.
Hot Spot 2 near sample location MP03. Assume 25'x25' to 15' bgs.
Resulting total excavation volume = approx. 600 cubic yards (average depth 12.5' bgs).
Assume soil type: sand/gravelly sand mixture.
Assume offsite disposal as hazardous waste.

Assume soil bentonite barrier wall (i.e., slurry wall) around GW plume.
Dimensions: 1000' long x 60' deep.

Assume upland cap within BW footprint (350'x150') to minimize infiltration. Use HDPE geomembrane with drainage/protection layer overlain with asphalt surface layer.

Assume GW plume of approx. 150'x350'. Use pump and treat for 5 years with monitoring.
Assume average GW depth: 25' bgs.
Assume installation of 4 monitoring wells.

Assume water-based dredging of contaminated sediments with off-site disposal.
Assume dredge area 50' x 350' x 4' deep or approx. 2600 cubic yards. Assume non-haz disposal.

BREMERTON-013197

Site WBS Report
(with Markups)

Support Team: E&E
References: R.S. Means, 2008, Heavy Construction Cost Data 22nd Annual Edition (HCCD)

Estimator Information

Estimator Name: Vanessa Rayner
Estimator Title: Civil Engineer
Agency/Org./Office: Ecology & Environment, Inc.
Business Address: 720 Third Ave., Suite 1700
Seattle, WA 98104
Telephone Number: 206-624-9537
Email Address: vrayner@ene.com
Estimate Prepared Date: 05/15/2009
Estimator Signature: Vanessa Rayner **Date:** 05/20/09

Reviewer Information

Reviewer Name: Steve Siefert
Reviewer Title: Senior Chemical Engineer
Agency/Org./Office: Ecology & Environment, Inc.
Business Address: 720 Third Ave., Suite 1700
Seattle, WA 98104
Telephone Number: 206-624-9537
Email Address: ssiefert@ene.com
Date Reviewed: 05/15/2009
Reviewer Signature: Steve Siefert **Date:** 5-20-09

BREMERTON-013198

Site WBS Report
(with Markups)

Phase:

Phase Type:	Remedial Action
Phase Name:	Monitoring Well Installation
Description:	Assume 4 monitoring wells. 2" diameter PVC Schedule 80 . Assume average GW depth: 25' bgs. Assume well depth of 45'. Assume split spoon sample collection every 5' with analysis (fuels). Costs only for well installation. Longterm monitoring not included.
Approach:	None
Start Date:	August, 2009
Labor Rate Group:	Marked Up Labor Rates_E&E
Analysis Rate Group:	System Analysis Rate
Phase Markups:	Markups_E&E

Technology Markups	Markup	% Prime	% Sub.
Groundwater Monitoring Well	Yes	100	0

BREMERTON-013199

Site WBS Report
(with Markups)

HTRW RA WBS			Marked Up Costs
331	HTRW REMEDIAL ACTION (CONSTRUCTION)		
331.02	MONITORING, SAMPLING, TESTING, AND ANALYSIS		
331.02.04	Monitoring Wells	Groundwater Monitoring Well	$42,587
			$42,587
		Total:	$42,587
		HTRW RA WBS Total:	$42,587

Phase:

Phase Type: Remedial Action
Phase Name: Pump & Treat Remedial Action
Description: Cost of installation and startup of a pump and treat operation (doesn't include O&M).
Use filtration and carbon absorption (2 vessels in series) with treated water discharge to POTW.
Assume GW plume of approx. 150'x350'.
Assume average GW depth: 25' bgs.
Assume base of contamination at 45' bgs.
Assume sand/gravelly sand mixture.
Approach: Ex Situ
Start Date: August, 2009
Labor Rate Group: Marked Up Labor Rates_E&E
Analysis Rate Group: System Analysis Rate
Phase Markups: Markups_E&E

Technology Markups	Markup	% Prime	% Sub.
Groundwater Extraction Wells	Yes	100	0
Media Filtration	Yes	100	0
Carbon Adsorption (Liquid)	Yes	100	0
Discharge to POTW	Yes	100	0
Overhead Electrical Distribution	Yes	100	0
Professional Labor Management	Yes	100	0
Residual Waste Management	Yes	100	0

BREMERTON-013200

Site WBS Report
(with Markups)

HTRW RA WBS		Marked Up Costs
331 HTRW REMEDIAL ACTION (CONSTRUCTION)		
331.03 SITEWORK		
331.03.06 Electrical Distribution	Overhead Electrical Distribution	$23,579
		$23,579
331.06 GROUNDWATER COLLECTION AND CONTROL		
331.06.01 Extraction and Injection Wells	Groundwater Extraction Wells	$38,841
		$38,841
331.13 PHYSICAL TREATMENT		
331.13.20 Carbon Adsorption - Liquids	Carbon Adsorption (Liquid)	$5,352
331.13.01 Filtration/Ultrafiltration	Media Filtration	$32,098
		$37,451
331.19 DISPOSAL (COMMERCIAL)		
331.19.22 Disposal Fees and Taxes	Discharge to POTW	$21,293
331.19.21 Transportation to Storage/Disposal Facility	Residual Waste Management	$6,308
		$27,602
331.22 GENERAL REQUIREMENTS (Optional Breakout)		
331.22.03 Warehouse, Materials Handling, and Purchasing	Professional Labor Management	$21,332
		$21,332
	Total:	$148,804
	HTRW RA WBS Total:	$148,804

BREMERTON-013201

Site WBS Report
(with Markups)

Phase:

Phase Type: Remedial Action
Phase Name: Sediment Dredging-RA_Water-Based
Description: Costs for RA for nearshore sediment dredging using water-based equipment.
Includes bathymetric surveying (pre and post construction), sediment BMPs (e.g., booms, silt curtains, etc.), and sediment dewatering.
Does not include costs for study, design, O&M, monitoring, or closeout.
Assume dredge area 50' x 350' x 4' deep or approx. 2600 cubic yards.
Offsite disposal costs included in separate phase(s).

Approach: Ex Situ
Start Date: August, 2009
Labor Rate Group: Marked Up Labor Rates_E&E
Analysis Rate Group: System Analysis Rate

Phase Markups: Markups_E&E

Technology Markups	Markup	% Prime	% Sub.
USER DEF_SED DREDGING_WATER-BASED	Yes	100	0
USER DEF_BATHY SURVEY_PRE-CONSTRUCTION	Yes	100	0
USER DEF_BATHY SURVEY_POST-CONSTRUCTION	Yes	100	0
USER DEF_PROFESSIONAL LABOR MANAGEMENT	Yes	100	0
USER DEF_SEDIMENT BMPS	Yes	100	0
USER DEF_SEDIMENT DEWATERING	Yes	100	0

BREMERTON-013202

Site WBS Report
(with Markups)

HTRW RA WBS			Marked Up Costs
331	HTRW REMEDIAL ACTION (CONSTRUCTION)		
331.02	MONITORING, SAMPLING, TESTING, AND ANALYSIS		
331.02.90	Other	USER DEF_PROFESSIONAL LABOR MANAGEMENT	$21,577
			$21,577
331.03	SITEWORK		
331.03.90	Other	USER DEF_SEDIMENT BMPS	$27,600
	Other	USER DEF_SEDIMENT DEWATERING	$40,365
			$67,965
331.09	LIQUIDS/SEDIMENTS/SLUDGES COLLECTION AND CONTAINMENT		
331.09.01	Dredging/Excavating	USER DEF_SED DREDGING_WATER-BASED	$340,584
			$340,584
331.22	GENERAL REQUIREMENTS (Optional Breakout)		
331.22.04	Engineering, Surveying, and Quality Control	USER DEF_BATHY SURVEY_POST-CONSTRUCTION	$11,500
	Engineering, Surveying, and Quality Control	USER DEF_BATHY SURVEY_PRE-CONSTRUCTION	$11,500
			$23,000
		Total:	$453,126
		HTRW RA WBS Total:	$453,126

BREMERTON-013203

Site WBS Report
(with Markups)

Phase:

Phase Type: Remedial Action
Phase Name: Sediment Off-Site Trans & Disposal-RA (NON-HAZ)
Description: Disposal costs for offsite transportation and disposal of dredged sediment (following dewatering/solidification) at non-haz facility.
2600 cubic yards.

Approach: Ex Situ
Start Date: August, 2009
Labor Rate Group: Marked Up Labor Rates_E&E
Analysis Rate Group: System Analysis Rate
Phase Markups: Markups_E&E

Technology Markups	Markup	% Prime	% Sub.
Off-site Transportation and Waste Disposal	Yes	100	0
Professional Labor Management	Yes	100	0

BREMERTON-013204

Site WBS Report
(with Markups)

HTRW RA WBS		Marked Up Costs
331 HTRW REMEDIAL ACTION (CONSTRUCTION)		
331.19 DISPOSAL (COMMERCIAL)		
331.19.22 Disposal Fees and Taxes	Off-site Transportation and Waste Disposal	$189,938
		$189,938
331.22 GENERAL REQUIREMENTS (Optional Breakout)		
331.22.03 Warehouse, Materials Handling, and Purchasing	Professional Labor Management	$3,799
		$3,799
	Total:	$193,737
	HTRW RA WBS Total:	$193,737

Phase:

Phase Type: Remedial Action
Phase Name: Slurry Wall
Description: Assume soil bentonite barrier wall (i.e., slurry wall) around GW plume. Dimensions: 1000' long x 60' deep with 12" protective gravel cover.

Approach: In Situ
Start Date: August, 2009
Labor Rate Group: Marked Up Labor Rates_E&E
Analysis Rate Group: System Analysis Rate

Phase Markups: Markups_E&E

Technology Markups	Markup	% Prime	% Sub.
Slurry Walls	Yes	100	0
Professional Labor Management	Yes	100	0

BREMERTON-013205

Site WBS Report
(with Markups)

HTRW RA WBS			Marked Up Costs
331	HTRW REMEDIAL ACTION (CONSTRUCTION)		
331.06	GROUNDWATER COLLECTION AND CONTROL		
331.06.03	Slurry Walls	Slurry Walls	$490,470
			$490,470
331.22	GENERAL REQUIREMENTS (Optional Breakout)		
331.22.03	Warehouse, Materials Handling, and Purchasing	Professional Labor Management	$49,047
			$49,047
		Total:	$539,517
		HTRW RA WBS Total:	$539,517

Phase:

Phase Type: Remedial Action
Phase Name: Soil Exc & Disp-RA (HAZ)
Description: Assume 2 upland soil hot spots requiring excavation and offsite disposal:
Hot Spot 1 near sample location SP03. Assume 25'x25' to 10' bgs.
Hot Spot 2 near sample location MP03. Assume 25'x25' to 15' bgs.
Resulting total excavation volume = approx. 600 cubic yards (average depth 12.5' bgs).
Assume soil type: sand/gravelly sand mixture.
Assume offsite disposal as hazardous waste at Arlington.
Approach: Ex Situ
Start Date: August, 2009
Labor Rate Group: Marked Up Labor Rates_E&E
Analysis Rate Group: System Analysis Rate
Phase Markups: Markups_E&E

Technology Markups	Markup	% Prime	% Sub.
Residual Waste Management	Yes	100	0
Excavation	Yes	100	0
Decontamination Facilities	Yes	100	0
Professional Labor Management	Yes	100	0

BREMERTON-013206

Site WBS Report
(with Markups)

HTRW RA WBS		Marked Up Costs
331 HTRW REMEDIAL ACTION (CONSTRUCTION)		
331.01 MOBILIZATION AND PREPARATORY WORK		
331.01.04 Setup/Construct Temporary Facilities	Decontamination Facilities	$3,608
		$3,608
331.08 SOLIDS COLLECTION AND CONTAINMENT		
331.08.01 Contaminated Soil Collection	Excavation	$19,268
		$19,268
331.19 DISPOSAL (COMMERCIAL)		
331.19.21 Transportation to Storage/Disposal Facility	Residual Waste Management	$143,911
		$143,911
331.22 GENERAL REQUIREMENTS (Optional Breakout)		
331.22.03 Warehouse, Materials Handling, and Purchasing	Professional Labor Management	$16,679
		$16,679
	Total:	$183,466
	HTRW RA WBS Total:	$183,466

BREMERTON-013207

Site WBS Report
(with Markups)

Phase:

Phase Type:	Remedial Action
Phase Name:	Cap-RA
Description:	Cap dimensions: 150' x 350'. Use HDPE geomembrane with drainage/protection layer overlain with asphalt surface layer. Include gas vents and perimeter security fence.
Approach:	In Situ
Start Date:	August, 2010
Labor Rate Group:	Marked Up Labor Rates_E&E
Analysis Rate Group:	System Analysis Rate
Phase Markups:	Markups_E&E

Technology Markups	Markup	% Prime	% Sub.
Capping	Yes	100	0
Fencing	Yes	100	0
Professional Labor Management	Yes	100	0

BREMERTON-013208

Site WBS Report
(with Markups)

HTRW RA WBS			Marked Up Costs
331	HTRW REMEDIAL ACTION (CONSTRUCTION)		
331.03	SITEWORK		
331.03.05	Fencing	Fencing	$49,939
			$49,939
331.08	SOLIDS COLLECTION AND CONTAINMENT		
331.08.05	Capping of Contaminated Area/Waste Pile (Soil/Asphalt Cap)	Capping	$329,087
			$329,087
331.22	GENERAL REQUIREMENTS (Optional Breakout)		
331.22.03	Warehouse, Materials Handling, and Purchasing	Professional Labor Management	$32,909
			$32,909
		Total:	$411,935
		HTRW RA WBS Total:	$411,935

Phase:

Phase Type: Operations & Maintenance
Phase Name: O&M - Pump & Treat System
Description: Assumes O&M for 5 years (60 months).

Start Date: August, 2009
Labor Rate Group: Marked Up Labor Rates_E&E
Analysis Rate Group: System Analysis Rate
Phase Markups: Markups_E&E

Technology Markups	Markup	% Prime	% Sub.
Operations and Maintenance	Yes	100	0

BREMERTON-013209

Site WBS Report
(with Markups)

HTRW OM WBS			Marked Up Costs
342	HTRW OPERATION AND MAINTENANCE (POST CONSTRUCTION)		
342.22	GENERAL REQUIREMENTS (Optional Breakout)		
342.22.91	Other	Miscellaneous Support Costs	$213,917
			$213,917
		Total:	$213,917
		HTRW OM WBS Total:	$213,917

Phase:

Phase Type: Long Term Monitoring
Phase Name: Monitoring - Pump & Treat System
Description: Pump & Treat Monitoring plus residual waste management.
Assumes monitoring for 5 years.
Sampled quarterly.
Costs are for monitoring of P&T system extraction wells (2 wells) plus GW monitoring wells (4 wells) - total of 6 wells.

Start Date: August, 2009
Labor Rate Group: Marked Up Labor Rates_E&E
Analysis Rate Group: System Analysis Rate
Phase Markups: Markups_E&E

Technology Markups	Markup	% Prime	% Sub.
MONITORING- P&T	Yes	100	0
Residual Waste Management	Yes	100	0

BREMERTON-013210

Site WBS Report
(with Markups)

HTRW RA WBS			Marked Up Costs
331	HTRW REMEDIAL ACTION (CONSTRUCTION)		
331.02	MONITORING, SAMPLING, TESTING, AND ANALYSIS		
331.02.91	Other	MONITORING- P&T	$227,614
			$227,614
331.19	DISPOSAL (COMMERCIAL)		
331.19.21	Transportation to Storage/Disposal Facility	Residual Waste Management	$4,947
			$4,947
		Total:	$232,560
		HTRW RA WBS Total:	$232,560
		Total:	**$2,419,649**

BREMERTON-013211